

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

SUMMER 2010

7/13/2010

**Samples Collected by Salem Sound Coastwatch staff and volunteers:** Barbara Warren (SS-BGW), Emily Gardner (SS-EG) Katie Morgan (SS-KM), Francie Caudill (SS-FC), Carolyn Kelly (SS-CK), Patti Mitchell (SS-PM), Joan Nesbit (SS-JN), Kate Culhane (SS-KC), Lynn Atkinson (SS-LA), Lenny Capello (SS-LC), Gary Moore (SS-GM), Susan Marsh (SS-SM), Megan Warde (SS-MW), James Tierney (SS - JT)

**Weather Rating: WET**

**Low Tide: 6:51 AM**

*Salem Sound Coastwatch's Clean Beaches and Streams Program is an ongoing water quality monitoring program that collects data at low tide from prioritized, potential pollution sources/sites along Salem Sound's coastline, including outfall pipes, culverts, and small streams.*

*Sites may change throughout the season. For more information, contact Barbara Warren at 978-741-7900.*

*Testing conducted specifically for water quality at bathing beaches is performed by each city/town Board of Health.*

Salem Sound Coastwatch Sampling Sites by Community	Site Number	Time of Sampling (am)	Flow	Salinity	Sample Collected	Enterococci per 100 mL	Lab
<b>Manchester</b>							
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach	161	7:35	F	27	MCST	<b>4,100</b>	Bio
Wolf Trap Estuary - East side from wooden bridge in marsh	161E	7:43	F	21	MCST	<b>4,400</b>	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	7:57	F	0	MCST	<b>470</b>	Bio
<b>Beverly</b>							
Centerville Brook - South of Hale Street	213E	8:32	F		SS-EG,KM	<b>1,600</b>	Bio
Patch Beach - Brackenbury Lane	213	8:42	F		SS-EG,KM	<b>990</b>	Bio
Rice Beach - Stream outlet on beach	214	8:16	T		SS-EG,KM	<b>1,900</b>	Bio
Dane St. Beach - Lawrence Brook at beach	321	8:02	F		SS-EG,KM	<b>340</b>	Bio
Dane St. Beach - Easterly storm drain on beach	322	7:55	F		SS-EG,KM	<b>330</b>	Bio
<b>Salem</b>							
North River - Upstream of Rt. 114 overpass, Commercial Way	537	7:02	F		SS-GM	<b>2,700</b>	Bio
North River - Commercial Way near foot bridge	559	6:53	F		SS-GM	<b>4,900</b>	Bio
Juniper Beach - Storm drain on beach	620	7:50	F		SS-SM	<b>&gt;24,000</b>	Bio
Derby Wharf - Storm drain	630	7:16	F		SS-GM	<b>3,700</b>	Bio
Palmer Cove - Storm drain below Palmer Cove Playground	631	7:25	F	27	SS-JT	<b>2,400</b>	Bio
<b>Marblehead</b>							
Dolliber Cove Creek - Grace Oliver Beach	700	8:00	F		SS-BW	<b>960</b>	Bio
Riverhead Beach Culvert - Facing on right	701B	7:30	F		SS-BW	<b>1,100</b>	Bio
Stramski Beach - Stream before entering the beach	722	7:00	T		SS-MW	<b>1,900</b>	Bio
<b>Quality Assurance/Quality Control</b>							
Duplicate Sample collected	700	8:03	F		SS-BW	<b>910</b>	Bio

Times with \*\* indicates samples were taken outside of the 2 hour window of sampling at low tide.

**\*Numbers in bold exceed Class A, B and C standards as specified by the EPA (EPA-823-R-03-008): Enterococci > 104 CFU/100mL**

**Notes:** NS = no sample collected ND = no detect (<4 CFU/100mL) NA = parameter not analyzed

**Weather ratings:**

- Dry - Less than 0.2" the day of sampling or less than 0.5" within three days preceding sampling
- Wet - More than 0.2" the day of sampling or more than 0.5" within three days preceding sampling

**Lab abbreviation: Bio = Biomarine Inc.**

**Flow ratings:**

- N = no water
- S = some water which is stagnant
- T = trickling flow
- F = steady, continuous flow

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