

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

SUMMER 2013

7/11/2013

Samples Collected by Salem Sound Coastwatch staff and volunteers: Barbara Warren (SS-BW), Susan Yochelson (SS-SY) Gary Moore (SS-GM),

MSCT: Francie Caudill, Carolyn Kelly, Patti Mitchell, Joan Nesbit, Lynn Atkinson, Kate Newhall, Kate Culhane

Weather Rating: DRY

Low Tide: 8:13 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	7:15	Flow	20	MCST	<b>2,100</b>	Bio
Wolf Trap Estuary - East side from wooden bridge in marsh	161E	7:30	Flow	14	MCST	<b>1,260</b>	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	7:45	Flow	0	MCST	<b>145</b>	Bio
<b>Beverly</b>							
Patch Beach - Brackenbury Lane	213	9:45	Flow	3	SS-BW	<b>890</b>	Bio
Rice Beach - Stream outlet on beach	214	9:15	T	0	SS-BW	<b>204</b>	Bio
Dane St. Beach - Lawrence Street brook at beach	321	9:00	Flow		SS-BW	<b>670</b>	Bio
<b>Salem</b>							
North River - Upstream of Rt. 114 overpass, Commercial Way	537	7:06	Flow		SS-GM	<b>189</b>	Bio
North River - Commercial Way near foot bridge	559	7:00	Flow		SS-GM	<b>187</b>	Bio
Juniper Beach - Storm drain on beach	620	8:00	Flow	15	SS-BW	<b>173</b>	Bio
Derby Wharf - Storm drain	630	7:12	Flow		SS-GM	<b>2,310</b>	Bio
Palmer Cove - Storm drain below Palmer Cove Playground	631	7:45	Flow		SS-BW	<b>288</b>	Bio
Juniper Cove - Storm drain in	625	8:13	Flow	31	SS-BW	63	
Collins Cove - Storm drain below Park	525	NS				NS	
<b>Marblehead</b>							
Dolliber Cove Creek - Grace Oliver Beach	700	7:30	Flow	0	SS-BW	<b>155</b>	Bio
Riverhead Beach Culvert - Facing on right	701B	NS				NS	Bio
Stramski Beach - Stream before entering the beach	722	7:20	Flow		SS-BW	<b>1,130</b>	Bio
<b>Quality Assurance/Quality Control</b>							
Duplicate Sample collected							

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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