

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

SUMMER 2011 DATE: 6/30/11

Samples Collected by Salem Sound Coastwatch staff and volunteers: **Barbara Warren (SS-BGW), Cheyenne Azadan (SS-CA)**

Francie Caudill (SS-FC), Carolyn Kelly (SS-CK), Patti Mitchell (SS-PM), Joan Nesbit (SS-JN), Lynn Atkinson (SS-LA)

Lenny Capello (SS-LC), James Tierney (SS-JT), Megan Warde (SS-MW), Gary Moore (SS-GM), Monica Gardner (SS-MG)

Bob Solda (SS-BS), Tricia Curley SS-TC

Weather Rating: **DRY**

Low Tide: **5:04 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
Manchester							
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach	161	6:18	Flow	15	MCST	2,800	Bio
Wolf Trap Estuary - East side from wooden bridge in marsh	161E	6:28	Flow	12	MCST	88	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	6:42	Flow	0	MCST	20	Bio
Beverly							
Patch Beach - Brackenbury Lane	213	6:50	Flow		SS-MG	320	Bio
Rice Beach - Stream outlet on beach	214	6:35	T		SS-MG	170	Bio
Dane St. Beach - Lawrence Street brook at beach	321	6:25	Flow		SS-TC	200	Bio
Dane St. Beach - Easterly storm drain at beach	322	6:20	Flow		SS-TC	10	Bio
Salem							
North River - Upstream of Rt. 114 overpass, Commercial Way	537	5:39	Flow		SS-GM	1,400	Bio
North River - Commercial Way near foot bridge	559	5:29	Flow		SS-GM	620	Bio
Juniper Beach - Storm drain on beach	620	6:00	Flow		SS-BS	410	Bio
Derby Wharf - Storm drain	630	5:50	T		SS-GM	9,800	Bio
Palmer Cove - Storm drain below Palmer Cove Playground	631	6:45	Flow	21	SS-JT	190	Bio
Marblehead							
Dolliber Cove Creek - Grace Oliver Beach	700	6:45	Flow		SS-CA	430	Bio
Riverhead Beach Culvert - Facing on right	701B	6:50	Flow		SS-CA	330	Bio
Stramski Beach - Stream before entering the beach	722	6:50	Flow		SS-MW	430	Bio
Quality Assurance/Quality Control							
Duplicate Sample collected	620	6:40	Flow	5	SS-SY	250	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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