

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

SUMMER 2011 DATE: July 19, 2011

Samples Collected by Salem Sound Coastwatch staff and volunteers: **Barbara Warren (SS-BW), 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: **8:37 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	8:00	F	20	MCST	1,630	Bio
Wolf Trap Estuary - East side from wooden bridge in marsh	161E	8:08	F	21	MCST	1,720	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	8:23	T	0	MCST	792	Bio
Beverly							
Patch Beach - Brackenbury Lane	213	8:05	F		SS-BW	2,140	Bio
Rice Beach - Stream outlet on beach	214	7:55	#Stagnant#		SS-BW	2,010	Bio
Dane St. Beach - Lawrence Street brook at beach	321	7:35	F		SS-TC	691	Bio
Dane St. Beach - Easterly storm drain at beach	322	7:28	T		SS-TC	10	Bio
Salem							
North River - Upstream of Rt. 114 overpass, Commercial Way	537	9:10	F		SS-GM	1,050	Bio
North River - Commercial Way near foot bridge	559	9:06	F		SS-GM	987	Bio
Juniper Beach - Storm drain on beach	620	7:00	F		SS-BS	6,490	Bio
Derby Wharf - Storm drain	630	9:18	T		SS-GM	>24,200	Bio
Palmer Cove - Storm drain below Palmer Cove Playground	631	7:20	F	26	SS-JT	583	Bio
Marblehead							
Dolliber Cove Creek - Grace Oliver Beach	700	7:20	F		SS-CA	504	Bio
Riverhead Beach Culvert - Facing on right	701B	7:35	F		SS-CA	1,300	Bio
Stramski Beach - Stream before entering the beach	722				SS-MW	NS	Bio
Quality Assurance/Quality Control							
Duplicate Sample collected	322D	7:28	T		SS-BW	830	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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#Stagnant# Note: CB&S Protocol is written that no sampling takes place if the water is stagnant.

In this case, the stormwater channel had been blocked by sand and water was not flowing

but since the standing water is at the edge of a swimming beach, the sample was taken to understand the bacterial threat level.