

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

SUMMER 2015

6/4/2015

Samples Collected by Salem Sound Coastwatch staff and volunteers: **Barbara Warren (SS-BW), Jack Nessen (SS-JN)**

Susan Stratton (SS-SS), Aletha Spang (SS-AS)

MCST: Lynn Atkinson, Carolyn Kelly, Francie Caudill, Susan Purser, Joan Nesbit, and Eric Mager

**Weather Rating: DRY**

**Low Tide: 7:04 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 ppt | Sample Collected | Enterococci per 100 mL | Lab |
|---|-------------|-----------------------|------|--------------|------------------|------------------------|-----|
| <b>Manchester</b>   |             |                       |      |              |                  |                        |     |
| Wolf Trap Estuary- Downstream of Ocean St. at Black Beach | 161         | 7:09                  | F    | 20           | MCST             | <b>1,550</b>           | Bio |
| Wolf Trap Estuary - East side from wooden bridge in marsh | 161E        | 7:23                  | F    | 20           | MCST             | <b>820</b>             | Bio |
| Wolf Trap Brook - Downstream of Rt. 127                   | 160D        | 7:45                  | F    | 0            | MCST             | 63                     | Bio |
| <b>Beverly</b>  |             |                       |      |              |                  |                        |     |
| Mingo Beach - Hale Street                                 | 212         | 7:15                  | T    | 0            | SS-JN            | 10                     | Bio |
| Patch Beach - Brackenbury Lane                            | 213         | 7:32                  | F    | 0            | SS-JN            | <b>272</b>             | Bio |
| Rice Beach - Stream outlet on beach                       | 214         | 7:55                  | T    | 0            | SS-JN            | <b>175</b>             | Bio |
| Dane St. Beach - Lawrence Street brook at beach           | 321         | 8:12                  | F    | 0            | SS-JN            | <b>266</b>             | Bio |
| <b>Salem</b>  |             |                       |      |              |                  |                        |     |
| Juniper Beach - Storm drain on beach                      | 620         | 7:00                  | F    |              | SS-AS            | <b>9,210</b>           | Bio |
| South River - off floating dock at Congress Street        | 643         | 7:12                  | F    |              | SS-AS            | <b>1,140</b>           | Bio |
| Palmer Cove - Storm drain below Palmer Cove Playground    | 631         | 7:20                  | F    |              | SS-AS            | <b>860</b>             | Bio |
| <b>Marblehead</b>   |             |                       |      |              |                  |                        |     |
| Riverhead Beach Culvert - Facing on right                 | 701         | 7:38                  | F    |              | SS-SS            | <b>183</b>             | Bio |
| Stramski Beach - Stream before entering the beach         | 722         | 8:02                  | F    |              | SS-SS            | <b>754</b>             | Bio |
| Village Street  | 721         | NS                    |      |              | SS-SS            | <b>NS</b>              | Bio |
| <b>Swampscott</b>   |             |                       |      |              |                  |                        |     |
| SWO1  | SWO1        | 7:35                  | F    |              | SS-JO            | <b>545</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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