

SALEM SOUND COASTWATCH

2025 Tributaries and Water Quality Monitoring

Location: Beverly, MA

Water Body: Lawrence Brook

Precipitation: All testing days were DRY

Samples Collected by Salem Sound Coastwatch staff and volunteers: Susan Marsh and Chris Bresnahan

Summary of Findings:

SSCW's Clean Beaches & Streams testing in 2024 and 2025 of the Lawrence Brook outfall at Dane Street Beach (321) indicated that this site had high bacterial levels. SSCW included testing of the Lawrence Brook in this Fall's Tributary and WQ Program to pinpoint the source of bacteria. When the upstream sites at Lothrop and Corning Streets (LBI-1) and at Lakeshore Dr and the Snake Hill Conservation Area (LBI-SH) were stagnant or dry, even on the wet testing day, water flowed from Lawrence Brook across Dane Street Beach to the ocean. Water must be entering the stream between sites 321 and LBI-1 from one or more sources. Leaves and debris have accumulated against the grate at Site LB-1. (Refer to photos below.)

Date	Site ID	Time	48 hour rainfall in inches	Enter/o/100mL	Ammonia ppm	Surfactants mg/L	Chlorine mg/L	Temperature °C	Salinity ppt	Conductivity mS/cm	pH	Dissolved Oxygen mg/L	Water Body	Field Notes
6/12/2025	321	11:00	0.00	75	-	-	-	0	-	-	-	-	Lawrence	Tested through the Clean Beaches & Streams Program
6/12/2025	321	11:00	0.00	109	-	-	-	0	-	-	-	-	Lawrence	Field duplicate; Average=92; Tested through CB&S Program
6/26/2025	321	7:17	0.00	1,439	-	-	-	0	-	-	-	-	Lawrence	Tested through the Clean Beaches & Streams Program
7/16/2025	321	8:05	0.00	2,310	-	-	-	0	-	-	-	-	Lawrence	Tested through the Clean Beaches & Streams Program
7/29/2025	321	8:14	0.00	1,529	-	-	-	0	-	-	-	-	Lawrence	Tested through the Clean Beaches & Streams Program
8/12/2025	321	8:15	0.00	199	-	-	-	0	-	-	-	-	Lawrence	Tested through the Clean Beaches & Streams Program
8/26/2025	321	8:14	0.00	>24,196	-	-	-	0	-	-	-	-	Lawrence	Tested through the Clean Beaches & Streams Program
9/2/2025	321	11:00	0.00	2,247	0	NA	0.03	19.1	0.3	0.543	6.52	5	Lawrence	
9/2/2025	LBI-1	11:15	0.00	-	-	-	-	-	-	-	-	-	Lawrence	Stagnant; leaves and debris accumulated at the grate
9/2/2025	LBI-1SH	11:30	0.00	-	-	-	-	-	-	-	-	-	Lawrence	No water; Deer observed crossing dry stream bed
10/9/2025	LBI-1	9:30	0.00	-	-	-	-	-	-	-	-	-	Lawrence	Stagnant; leaves and debris are accumulated at the grate. Because this site was stagnant after heavy rain, the other two upstream sites were not tested.

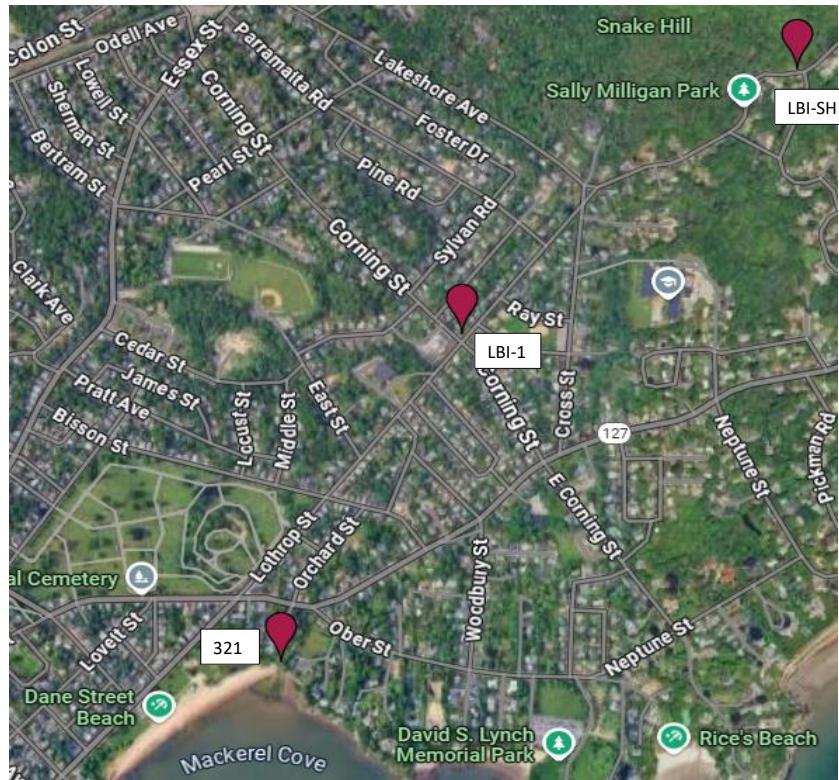
Wet Day > 0.2" rainfall in 24 hours

> 104 CFU/100C > 0.5mg/l > 0.25 mg/L > 4 mg/L >22°C > 1.0 ppt > 1.5 mS/cm 6.5 - 8.5 <=6.0

Salinity >0.01 elevates surfactant

Salinity elevates conductivity

Note: Sites LBI-1 and LBI-SH were dry or stagnant on sampling days



Site LBI-1 at Lothrop and Corning Streets:
leaves and debris have accumulated
against the grate



Site LBI-SH at Lakeshore Drive and
the Snake Hill Conservation Area:
dry stream bed



Site 321 where the Lawrence
Brook Flows to the ocean across
Dane Street Beach

Google Map of all 2025 CB&S Site Locations:

[https://www.google.com/maps/@42.5230148,-70.917919,2507m/data=!3m1!1e3!4m2!6m1!1s1XweSQeqgdoG4znx4fmnASwqj09kj1c?authuser=0&entry=ttu&g_ep=EgoyMDI1MDEyMC4wIKXMDSoA\\$AFQAw%3D%3D](https://www.google.com/maps/@42.5230148,-70.917919,2507m/data=!3m1!1e3!4m2!6m1!1s1XweSQeqgdoG4znx4fmnASwqj09kj1c?authuser=0&entry=ttu&g_ep=EgoyMDI1MDEyMC4wIKXMDSoA$AFQAw%3D%3D)