

2023 Lake Carmi Tributary Sampling Summary (Mark Mitchell, Vermont DEC Lakes and Ponds Program)

1. 10 tributary sites were monitored by Franklin Watershed Committee in 2023 for total and dissolved phosphorus.
2. Marsh Brook continues to have the highest concentrations, but LC9 showed some improvement compared to 2022 and 2015-2017.
3. Sandy Bay Brook and Kane’s Brook both continue to show improvement compared to 2015-2017.
4. Dewing Brook and Hammond's Brook North showed improvement for the first time compared to 2015-2017.
5. The same 10 tributary sites will continue to be monitored by Franklin Watershed Committee in 2024.

Total Phosphorus	2015-2017 Mean	2020-2023 Mean	2020 Mean	2021 Mean	2022 Mean	2023 Mean	2023 Min	2023 Max
LC1 Sandy Bay Brook	>100	66.6	76.0	55.1	70.3	65.1	41.5	134.0
LC5 Dicky's Brook	35-65	47.6	68.1	32.7	48.5	41.2	27.3	61.3
LC6 Dewing Brook	35-65	42.3	42.9	43.7	53.4	29.3	19.5	70.5
LC8 Marsh Brook	>100	122.7	NA	112.4	127.4	128.2	50.2	382.0
LC9 Marsh Brook	>100	85.7	NA	65.6	104.9	86.8	43.8	165.0
LC10 Marsh Brook	65-100	66.4	75.6	50.3	68.1	71.7	30.3	170.0
LC11 Alder Run	20-35	29.3	NA	42.3	24.6	20.8	14.2	56.6
LC12 Kane's Brook	65-100	61.0	60.1	69.9	63.5	50.4	27.2	112.0
LC15 Prouty Brook	NA	61.0	NA	69.4	62.5	51.0	28.6	109.0
LC17 Hammond's Brook North	35-65	37.8	NA	40.8	44.5	28.2	9	116.0
LC20 Drain Tile to Marsh Brook	NA	NA	NA	58.1	81.0	NA	NA	NA

Dissolved Phosphorus	2015-2017 Mean	2020-2023 Mean	2020 Mean	2021 Mean	2022 Mean	2023 Mean	2023 Min	2023 Max
LC1 Sandy Bay Brook	NA	52.0	63.4	41.1	52.0	51.5	30.4	101.0
LC5 Dicky's Brook	NA	25.5	30.0	20.4	28.2	23.5	14.6	45.6
LC6 Dewing Brook	NA	30.3	38.4	23.8	35.1	24.0	14.5	45.4
LC8 Marsh Brook	NA	82.5	NA	60.8	83.2	103.5	43.4	244.0
LC9 Marsh Brook	NA	66.9	NA	49.9	79.1	71.6	39	142.0
LC10 Marsh Brook	NA	51.4	56.6	34.4	52.8	61.7	24	147.0
LC11 Alder Run	NA	17.1	NA	18.8	17.9	14.5	7.8	35.7
LC12 Kane's Brook	NA	43.5	46.3	37.0	49.1	41.5	24.2	65.3

LC15 Prouty Brook	NA	27.9	NA	36.9	25.9	20.9	10.6	33.3
LC17 Hammond's Brook North	NA	20.6	NA	22.0	21.9	17.9	7.3	44.5
LC20 Drain Tile to Marsh Brook	NA	NA	NA	35.6	28.6	NA	NA	NA