

## **Invasive Species Detection in Northeast Regional Lakes using Environment DNA (eDNA) - 2022**

A fourth annual report on the abundance of invasive zebra mussels in northeastern US lakes. Water samples were collected and filtered for eDNA from several lakes in VT, NY, and NH. DNA from the samples was extracted and target species eDNA amplified using ddPCR. Luminance from fluorescent tags on each target amplicon was used to determine the relative abundance of the invasive species in each sample location. The final report is submitted annually to the Vermont Department of Environmental Conservation. Although annual reports are not available to the public, the [pilot study](#) from 2019 can be found on [Maine.gov](#)

My involvement included extracting and amplifying all samples collected in the field, interpreting and assembling all figures and charts for the report, and arranging the first draft of the report for review by the principle investigator.