

## Appendix C: Past Accomplishments

### Water Resources Accomplishments

- Provided financial support for volunteer water quality data collection through the NHDES [Volunteer River Assessment Program](#), enabling uninterrupted data 1990 to present.
- Commissioned research to quantify and identify the source of bacterial contamination at recreational areas along the river. At two sites where significant contamination was found, funded additional research to help isolate the source(s).
  - [guidance for minimizing recreational bacterial contact](#)
  - [bacterial tracking report 2024](#)
  - [bacterial tracking report 2023](#)
  - [bacterial tracking report 2022](#)
  - [bacterial tracking report 2021](#)
- Worked with NHDES to fund and ensure that the mainstem Lamprey River and the five designated tributaries have stream flow gauges, 2022. Real time conditions can be found through the NHDES website: [NH Instream Flow Map](#)
- Funded graduate work to determine the [effects of Japanese knotweed on riverside erosion, 2021-2022](#).
- Funded equipment upgrades at Wiswall Falls in Durham for use by UNH researchers, 2021
- Funded graduate student work to create a [nutrient budget](#) along segments of the Lamprey River, 2020.
- Funded the [Raymond wetland inventory](#) and recommendations for zoning changes to maximize protection of drinking water sources in Raymond, 2020.
- Funded several trend analyses to determine whether water quality is improving or worsening over time.
  - [long-term heavy metals and phosphorus](#), 2019
  - [long-term dissolved oxygen, pH, and nitrate](#), 2016
  - [long-term specific conductance, E.coli, and turbidity](#), 2018
  - [Lamprey River Water Quality report 1993-2016](#)
- Participated in planning for the Spruce Hole Aquifer recharge project in Durham, which went into service in 2016. The project, the first of its kind in New Hampshire, involves moving raw water from the Lamprey River during periods of plentiful flow to the Spruce Hole Aquifer for later use by the Durham-UNH Water System during periods of low flow which often coincide with peak water demands during the fall semester at UNH.
- Funded supervised undergraduate work to determine the source of turbidity in [Woodman Brook](#), 2015.
- Co-sponsored a road salt reduction workshop and commissioned *The Road Less Salted* DVD for public and private snow plow drivers, 2010.

- Sponsored septic system outreach, including a pilot on-site program for riverside landowners to understand and improve their septic systems.
- Created brochures to promote clean water and protect wildlife habitat along riverfront lands.
- Co-sponsored a series of workshops on maintaining vegetated buffers to protect the river.
- Held workshops to inform citizens about the connections between economics and ecological integrity.
- Co-sponsored “Your Water, Your Wallet, Your Watershed” workshop to encourage towns to work across municipal boundaries in addressing water issues.
- Reviewed proposed development projects within one quarter mile of the Lamprey River and its state-designated tributaries to assure that water will not be degraded during and after construction.