Newsletter Fall 2025



Wiggin Farm Trail Improvements

Thanks to a Community Grant from the Lamprey River Advisory Committee, the Newmarket Conservation Commission has replaced a wetland crossing that was in disrepair at the Wiggin Farm Conservation Area. The new boardwalk provides improved public safety and is more ecologically sound.

The new boardwalk is mounted on a set of 18 coated steel helical piers, instead of the typical 4" x 4" pressure treated posts. This provides a smaller footprint impacting the wetland. The old bridge had steep access ramps; now the slope of the entire boardwalk is 2% or less, making it more accessible and safer for all users.



Photos courtesy of the Newmarket Conservation Commission

The 160-acre Wiggin Farm Conservation Area was conserved in 2003. Slated for a 22-house subdivision, the Town of Newmarket acquired the land in perpetuity for people and nature with the help of several partners, including the LRAC. The New Hampshire Fish and Game Department holds a conservation easement on all but 2 acres of this property.

The 1.5-mile loop is popular with walkers and nature lovers and protects a part of Tuttle Swamp. The new bridge and boardwalk welcome visitors as they leave the parking area and head out onto the trail. The parking area is located off Grant Road. Go take a hike!



Stream Team Topic #4: Fallen Trees across or in River

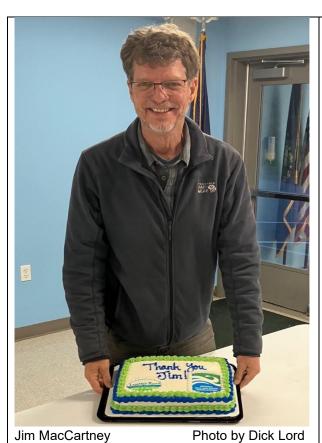


A downed tree upstream of Wadleigh Falls.
Photo by Ryan Foley

Trees fall naturally due to age, beaver activity, or weather events. They provide habitat for fish and other aquatic animals; however, they can also pose a danger to paddlers. Once a tree is in the river, minor branch trimming can be performed legally, but removing a big trunk as in this photo usually requires a permit from NHDES.

Please send documentation to the local conservation commission so they can keep track of these obstacles.

LRAC Bids Farewell to Jim MacCartney



After many, many years of service on behalf of river protection, LRAC's National Park Service liaison and Wild and Scenic River Manager Jim MacCartney retired on May 31.

Throughout his career as a river manager at NHDES, Trout Unlimited, and the National Park Service, Jim worked with river and environmental groups to protect and enhance the assets and resources that make rivers special. He recommended ecological studies, coordinated efforts to acquire and develop the Public Canoe Access for Lee, guided the LRAC through federal administrative and budget processes, and freely shared his wisdom and experience with getting other rivers designated into the National Wild and Scenic Rivers System.

Thank you, Jim. Best wishes!

American Toad Research

In April 2024, several American toads (*Anaxyrus americanus*) with severe skin lesions were found along the Lamprey River in the town of Durham. Because amphibians are known to be a sentinel group for infectious diseases, environmental contamination, and even radiation, the emergence of a new pathogen along the Lamprey River carries potential significance for the entire ecological community of the watershed.



A healthy American toad photo by NH Fish and Game

Based on what has been learned about new pathogens and the declining health of amphibians and reptiles across North America and worldwide, a proactive and robust response to any perceived emerging health threat to these species is vital to ensuring the resilience of the watershed as a whole. In that light and with the financial support of the Lamprey River Advisory Committee, UNH researchers David Needle, DVM, and David Steinberg, PhD got to work. They had two main goals:

- Identify and characterize the cause of these previously-unseen lesions in American toads along the Lamprey River.
- Determine the geographic extent of infections in American toads (and other amphibians) within the Lamprey River watershed (and potentially others).

In the lab, the pathogen was identified as *Amphibiothecum penneri*, a unicellular protist, based on histology and DNA sequencing. Although the pathogen had previously been identified elsewhere, the toads captured in 2024 were the first ever seen in New Hampshire.

Field research in the spring and fall of 2024 and the spring of 2025 focused on determining the geographic extent of the disease. While most of the infected toads were found along the Lamprey River in Durham and Lee, two other infected individuals were found in Harrisville, New Hampshire and in Sanford, Maine. The researchers and their field colleagues elsewhere collected many other amphibian species, but only American toads were infected.

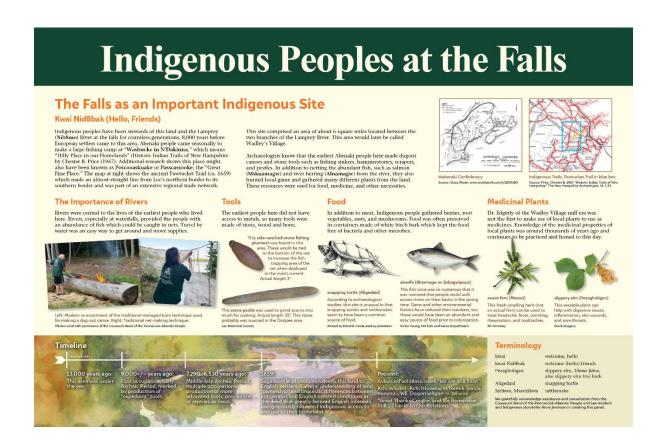
While disturbing, infected toads were the exception, not the rule. In two years of field work, most American toads encountered in the Lamprey River watershed towns were in good health and were free of lesions. Many of the infected toads recovered without medical intervention. Now that the pathogen has been identified, herpetologists in the

states of New Hampshire and Maine will continue to monitor for the occurrence of *Amphibiothecum penneri* in amphibians that are encountered in the coming years.

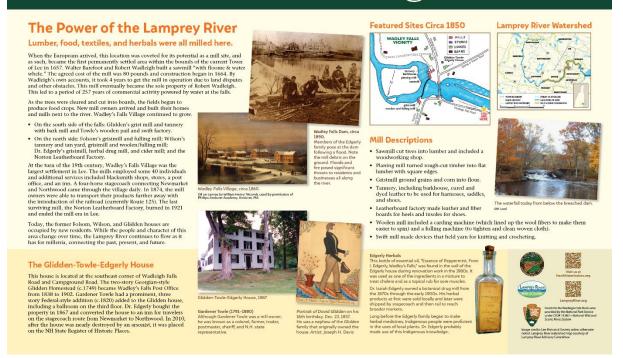
The American Toad Pathogen Report can be viewed at www.LampreyRiver.org.

Wadleigh Falls History

The recorded history of Lee began at Wadleigh Falls, with one of the first mills built along the Lamprey River. But people have been living and working at the falls for over 9,000 years. The falls offer resources that are desirable through time. For the past two years, the Lee Historical Society, the LRAC, and Indigenous liaisons have worked together to create two history panels that highlight some of the unique features of the Wadleigh Falls area. The kiosk is now at the Lee Public Canoe Access on Route 152, but due to a mix-up with installation, the kiosk is not currently accessible to all visitors and is challenging to see from the road. We hope to correct this in the near future. We hope you will visit the site and see the panels in person, but here are the two panels if you cannot. Enjoy!



The Mills at Wadleigh Falls



Management Moving Forward

The 2013 Lamprey Rivers Management Plan has served its purposes and the LRAC well, but times are changing. After several years of hard work, the 2025 Lamprey River Management Plan is almost ready for release. The plan includes many updates and a custom on-line mapper. Printed copies will be provided to planning boards, conservation commissions, and public libraries in each of the 14 Lamprey River watershed towns in October. The on-line version will be available at www.LampreyRiver.org and will include links to pertinent reports, partners, and the mapper.

Fun facts from the 2025 Lamprey River Management Plan

- From 1990 to 2020, the overall population of the Lamprey River watershed towns grew from 74,022 to 102, 360, a 38% increase. Since 1960 (when the population was about 29,000), the number of people has more than tripled (353% increase).
- Epping is the only town that is 100% in the Lamprey River watershed. It constitutes 12.24% of the watershed. Nottingham is almost entirely in the watershed (missing just a small sliver in the northeast of town), but it is number one in percentage of watershed area, 22.42%.
- You can see if your residence is in a FEMA 100-year or 500-year flood zone using the on-line mapper.

Doe Farm Forest Management Plan

Doe Farm in Durham is a popular and beautiful conservation area with significant frontage on the Lamprey River. This 85.4-acre forest is managed by the Town of Durham for timber and recreation. Management is guided by a forest stewardship plan that was last updated in 2015. As natural conditions, stewardship practices, and understanding of ecology and climate science change, the plan needs to be updated to reflect those changes. With this in mind, the Town of Durham Trustees of the Trust Fund applied for a LRAC Community Grant in 2024 to produce an update to the plan. The LRAC was happy to offer financial assistance to this effort.

The Trustees identified several main goals of the plan;

- Maintain a healthy forest ecosystem through sustainable forest management, focusing on forest health, biodiversity, and wildlife.
- Manage public use of the property to protect the health of the forest ecosystem.
- Mitigate impacts of climate change on the forest and sequester and store carbon via natural climate solutions.



Doe Farm's entrance from the parking area. Photo courtesy of Moreno Forestry Associates.

As of September 2025, the plan update has been written and is in the final stages of being formally accepted by the town. We look forward to keeping Doe Farm an ecologically rich and peaceful walking area well into the future.