

Northwood Lake Watershed Association

Annual Meeting – July 13, 2024



NLWA Annual Meeting

Saturday, July 13, 2024

9:00 – 11:00 AM

Northwood Town Hall

818 1st New Hampshire Turnpike (Route 4), Northwood, NH

All Current and Prospective NLWA Members Invited



Annual Meeting Agenda

- Introductions
 - Secretary's Report
- Lake Host Program Report
- Water Quality Program Report
- Invasive Species Program Report
 - Treasurer's Report
 - Fundraising Report
 - Events
- Election of New Officers and Directors
 - Guest Speaker – Laura Diemer
Cyanobacteria:
Causes, Prevention and Treatment
 - Other Business



Meet the Board of Directors

- President Norm Royce
- Vice President Open
- Treasurer Linda Lobao
- Secretary Becki McCarthy
- Director Mike McCarthy
- Director Mike Coumas
- Director Brian Lobao
- Member Robert Poyourow
- Member Pat Donahue

The NLWA Mission



- The purpose of the Northwood Lake Watershed Association is to preserve and protect the quality of Northwood Lake and its surroundings.
- The Northwood Lake Watershed Association (NLWA) is a 501(c)(3) non-profit New Hampshire corporation. We are registered with the NH Attorney General's Charitable Trust and the NH Secretary of State office.
- Our NLWA Board members own property on or near Northwood Lake.
- We have been working closely with the Boards of Selectmen in Northwood, Deerfield and Epsom as well as residents and local businesses to secure much-needed, ongoing economic support... an effort that has been largely successful.

The NLWA History



- The Northwood Lake Watershed Association (NLWA) was formed in 1992.
- The watershed is 15,378 acres with the lake being 686 acres.
- The maximum depth of the lake is 20.8 feet, with an average depth of 10 ft.
- The size of the milfoil infestation has fluctuated over time, growing to cover nearly one half of the surface area of the lake at one point. It is much reduced at this time.
- Rare and threatened species include the Blandings Turtle and the Common Loon.

The NLWA Current Summary



- Milfoil control efforts were very successful in recent years.
- The Lake Host program is running well. 4 Paid and 2 Volunteer Lake Hosts.
- Water quality of Northwood Lake remains stable. Cyanobacteria blooms continue to be a significant concern.
- The Northwood Lake Watershed Association is in a good financial position. We do need to keep up the fundraising efforts as much of the work required is very expensive. An escrow account has been established as part of NLWA's financial management.

Thanks for the Financial Support



- Residents and property owners of Northwood, Deerfield, and Epsom
- Selectboard and Budget Committee for the towns of Northwood, Deerfield and Epsom
 - Voters of Northwood, Deerfield and Epsom for passing the warrant articles
- Local Business Partners
 - MacCallum's Boathouse
 - Johnson's Seafood and Steak
 - Northwood Family Dental
 - Heritage Hardware Store

2024 Milfoil Control Program Status Report

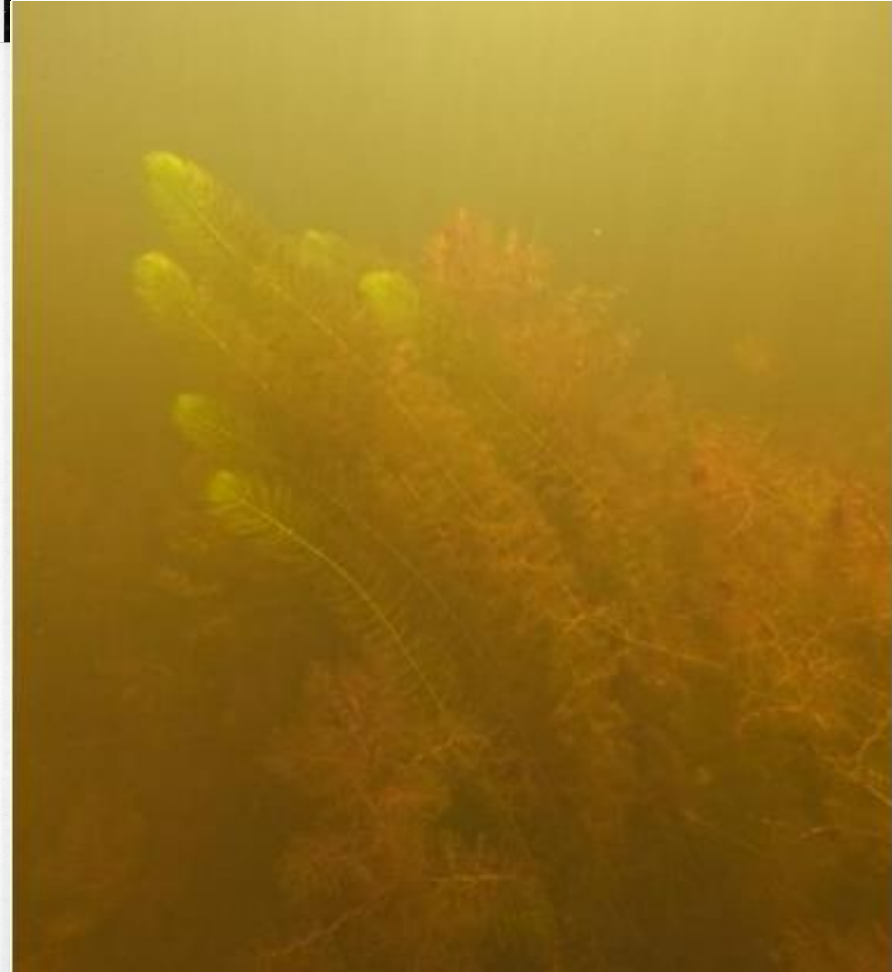
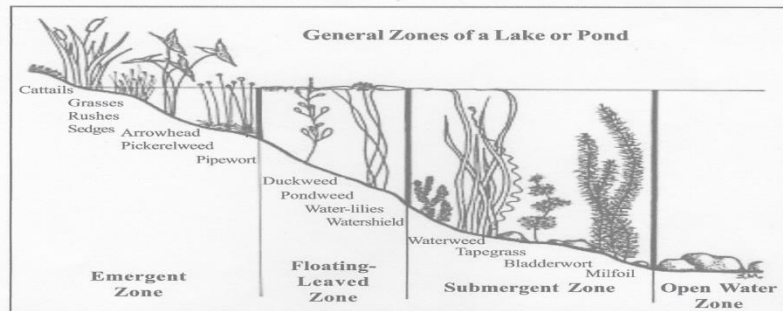


Introduction

New Hampshire's lakes and ponds are rich with aquatic plant life; the State's diverse array of plants forms unique communities in each of our waterbodies. This publication encapsulates those species that are most commonly encountered, but this book cannot possibly cover all the species represented throughout our waterbodies. Our goal of this first edition is to further pique the curiosity of the many Weed Watchers and plant enthusiasts throughout the state.

Our years of experience working closely with lakes and ponds have taught us that plants are either the joy or the bane for many individuals. Some people enjoy exploring the plant zones for fish, hatching insects, wiggling tadpoles, red water mites, and crayfish; others view the ring of plants around their lake as a frustration, to avoid while they swim or which impedes boat lanes to the deeper waters. The purpose of this book is to introduce aquatic plants in a colorful and meaningful manner. The authors have included color photographs and line drawings to aid in plant identification, as well as information on plant locations, habitats, animals that use these plants, and interesting lore associated with them.

Plants tend to fall within spatial zones in a waterbody and are thus classified according to their growth habit and location. Three plant zones can generally be identified: the emergent zone, the floating-leaved zone, and the submergent zone. The following diagram illustrates these three zones of plant growth that start near the water's edge, and lead to the deeper, open water areas of the waterbody.



2024 Milfoil Control Program Status Report



Have you seen an **AQUATIC INVASIVE PLANT** lurking in the water or hitchhiking on a boat, trailer, or other recreational gear?

Curly-leaf Pondweed

- Leaves are somewhat stiff and crinkled, approx. 1/2-inch wide, 2 to 3 inches long
- Leaves arranged alternately around the stem, becoming more dense toward the end of branches
- Has small "teeth" along edge of leaf



Credit: B. Wahlstrom

Eurasian Watermilfoil

- Feather-like leaves with blunt ends commonly with 12 to 24 pairs of leaflets on each leaf
- Leaves are grouped in whorls (circles) of 3 to 6 leaves around stem



Credit: R. Johnson

European Naiad

- Leaves are lime green, very slender, 1- 2 inches long with 6-15 "teeth" along edge
- Leaves are usually opposite of each other with wide base that tapers to a tip
- The brittle, recurved leaves branch profusely at stem



Credit: D. Cameron

Fanwort

Credit: NH DES



- Underwater leaves approx. 2 inches across, divided into fine branches with fan shape
- Submerged parts slimy
- Flowering branches grow above surface are small and diamond-shaped

Hydrilla



Credit: R. Videkii

- Small leaves (3/4 inch) are bright green and pointed with "toothed" edges
- 3 to 10 leaves arranged in a whorl (circle) around stem
- branches profusely at surface

Variable Milfoil



Credit: NH DES

- Stems are thick and often red
- Submerged leaves finely divided, resembling a feather
- Leaves in whorls (circles) of 4 to 6 around the stem
- Cross section of the stem has pie-shaped air chambers

Water Chestnut



- Surface leaves are waxy and triangular with toothed edges
- Submerged leaves are feathery and whorled around stalk
- Stems can grow up to 16 ft.
- Forms dense, floating mats

Report potential invasive species sightings to:

New Hampshire Department of Environmental Services (603) 271-2248

This information is brought to you by the Lake Host Program
info@nhlakes.org
603.226.0299

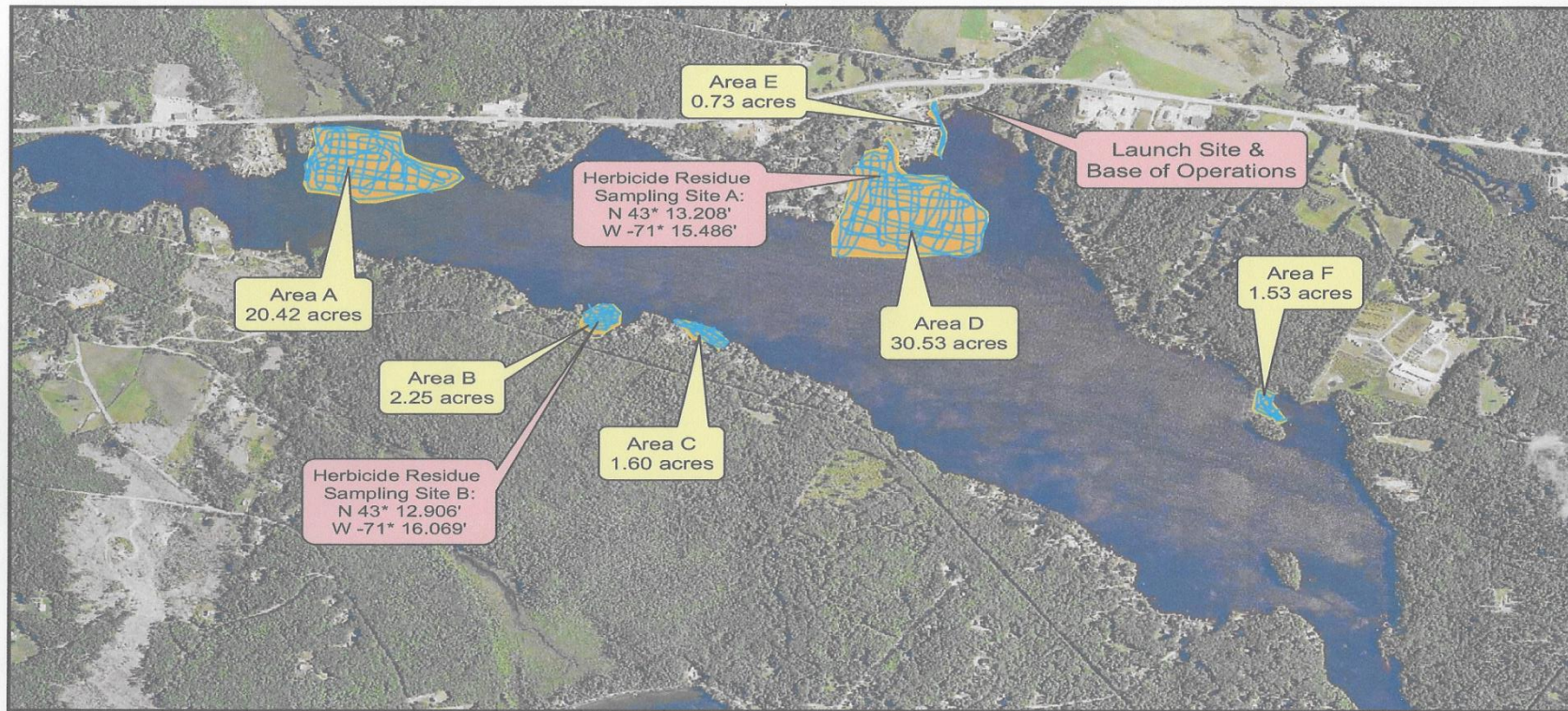


2024 Milfoil Control Program Status Report



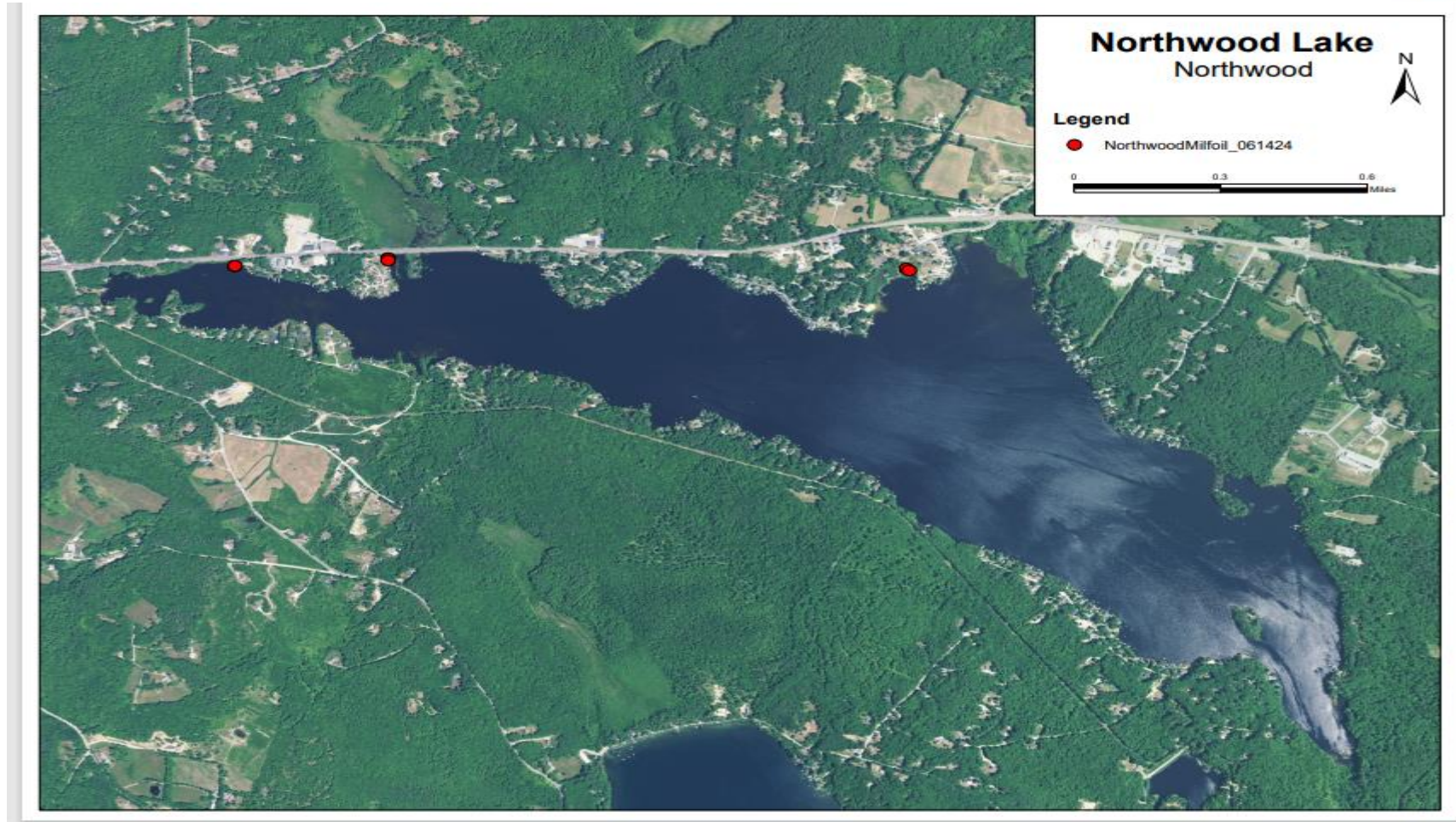
- In 2021 Solitude Lake Management Chemically treated sections of the lake with liquid PROCELLACOR EC tm(Florpyrauxifen-benzyl) herbicide treatment to control invasive variable milfoil in the lake (treating 57.1 of the 686 acres). Treatment was completed in June.
- In 2021 AE Commercial Dive Services completed DASH activity on August 21st removing 80 gallons of invasive milfoil root balls. No live milfoil plants were found concluding 4 days of diving.
- 2021 was the first time since 2016 we have used herbicides to help fight Milfoil in Northwood Lake.

2024 Milfoil Control Program Status Report



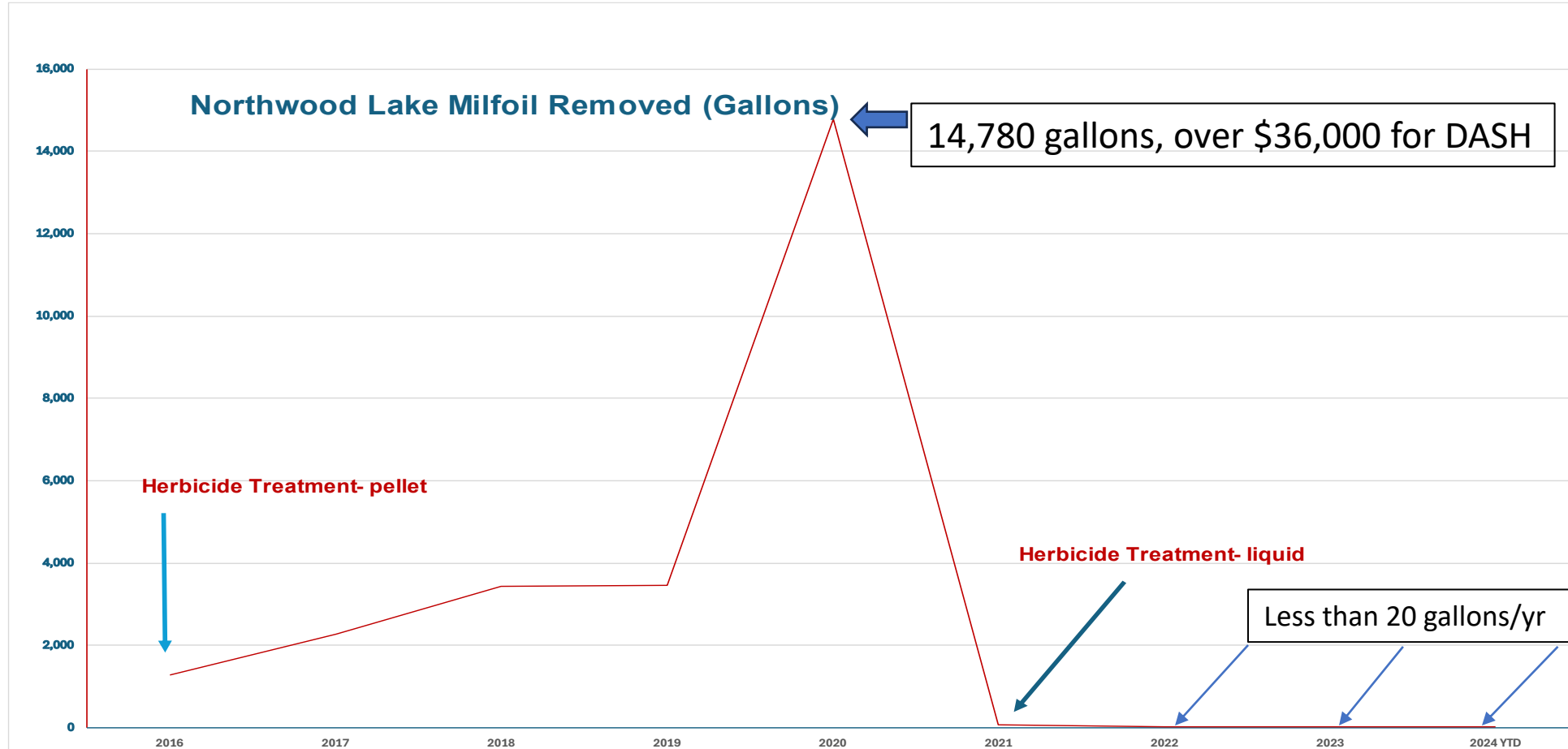
<p>Northwood Lake Epsom, Deerfield & Northwood, NH</p> <p>2021 Actual June Treatment Map</p>			<p>Legend:</p> <p> June Treatment Areas (57.1 acres)</p> <p> Actual Treatment Track (6/21/21)</p>	<p>N</p> <p>SOLITUDE LAKE MANAGEMENT 590 LAKE STREET SHREWSBURY, MA 01545 PHONE: (508) 885-0101 SOLITUDELAKEMANAGEMENT.COM</p>
<p>FIGURE: 2</p>	<p>SURVEY DATE: 6/21/21</p>	<p>MAP DATE: 6/22/21</p>	<p>0 1,000 2,000 4,000 Feet</p>	

2024 Milfoil Control Program Status Report



2024 Northwood Lake NHDES June Survey

2024 Milfoil Control Program Status Report

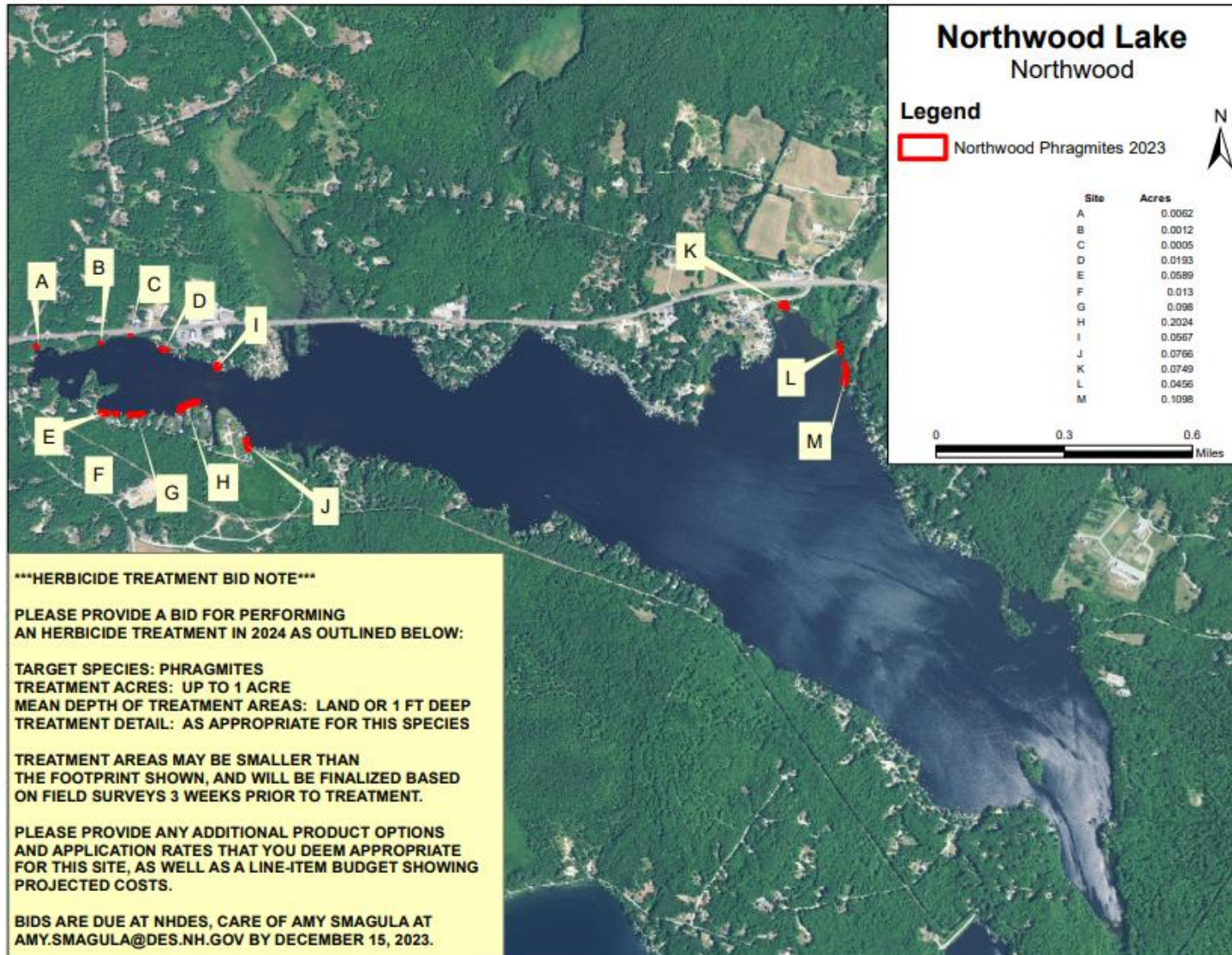


2024 Milfoil Control Program Status Report



- Summary:
 - The results of the 2021 herbicide treatment and dive activities has provided long lasting results
 - The NLWA, NHDES and the dive team is finding minimal milfoil. Unfortunately, you can never eliminate all milfoil and milfoil regenerates and spreads quickly.
 - Milfoil is a very fragile plant and pieces easily break off the plant via wind, current, waves, boat and trolling motors, and fishing lures. As the broken pieces float around and come to shorelines they start to sink and regrow roots and reestablish itself in new locations.
 - Please don't pull milfoil by hand from the lake. It will fragment and spread. Inform the NLWA of the location you believe has milfoil. If some washes up on your shore discard it or burn it in a firepit.

2024 Phragmites Control Status Report



2024 Phragmites Control Status Report



Task 1: Permitting	\$1,575.00	(March)
Task 2: Herbicide Treatment (max)	\$4,540.00	(August/September)
Task 3: Residue Sampling (max)	\$1,980.00	(September)
Task 4: Post-Treatment Survey(s)	\$950.00	(October)
Task 5: State Reporting	\$950.00	(October/November)

Water Quality Testing



- Have you ever wondered how a state with over 800 public lakes and ponds can evaluate water quality? It would be impossible without the dedicated volunteers across the state and on the NLWA.
- Water quality samples have been collected on Northwood Lake since 1991 by our volunteers through the Volunteer Lake Assessment Program (VLAP).
 - Analyzed at the NH Department of Environmental Services (NHDES).
- This cooperative effort allows biologists and lake associations to make educated decisions regarding the future of New Hampshire's lakes and ponds.
- At this time 500 volunteers support 170 lakes that are in the VLAP program, with Northwood Lake having 2 of those volunteers.

Water Quality Report



From NHDES - Volunteer Lake Assessment Program Individual Lake Reports Northwood Lake, Northwood 2023

- Summary Recommended Actions from NHDES:
- Great job sampling in 2023!
- Great work on moving forward with developing a Watershed Management Plan!

Water Quality Report



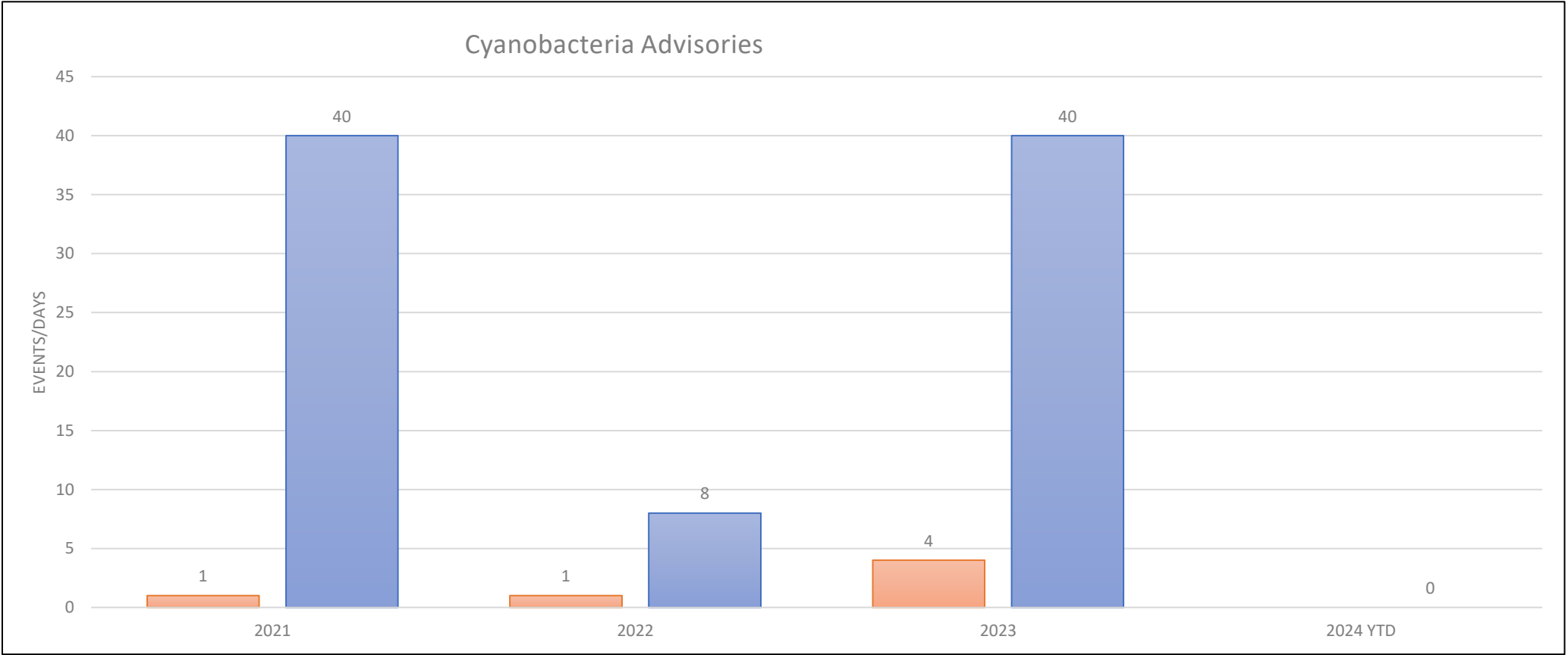
Volunteer Lake Assessment Program Individual Lake Reports Northwood Lake, Northwood 2024

- Cyanobacteria generally dominate the phytoplankton composition in the lake. Be on the lookout for future cyanobacteria blooms or surface scums and notify the NHDES Harmful Algal Bloom Program of anything suspicious.
- Cyanobacteria are natural components of water bodies worldwide, though blooms and surface scums may form when excess nutrients are available to the water.
- Some cyanobacteria produce toxins that are stored within the cells and released upon cell death. Toxins can cause both acute and chronic health effects that range in severity.
- Acute health effects include irritation of skin and mucous membranes, tingling, numbness, nausea, vomiting, seizures and diarrhea. Chronic effects may include liver and central nervous system damage.
- Be cautious of lake water that has a surface scum, changes colors, or appears to have green streaks or blue-green flecks aggregating along the shore.



Water Quality/Cyanobacteria

Northwood Lake Cyanobacteria Advisories



Water Quality/Cyanobacteria



- If you notice anything resembling cyanobacteria, please refrain from wading, swimming or drinking the water. Keep all pets out of the water and contact NHDES immediately. Please call or text NHDES at [\(603\) 848-8094](tel:6038488094) or email HAB@des.nh.gov. Kate Hastings is leading this program at NHDES.



Water Quality/Cyanobacteria



Focus on outreach material development and messaging

Conduct a Personal Risk Assessment

- 1) Look at the water.
Is it green? Discolored?
- 2) Check the Mapper.
Is there a current advisory?
- 3) Consider look-alikes
- 4) Report it!

Cyanobacteria



WHEN IN DOUBT, STAY OUT

Green Filamentous Algae



Duckweed



Water Quality/Cyanobacteria



Additional support for watershed planning and implementation

Watershed plan development and implementation at NHDES

Watershed Assistance Section (WAS)

- ~40 lake-related plans since 2010
- \$75,000 of annual grant funds for planning + SRF loans
- \$500,000 of annual grant funds for implementation

Sounds good, right?

- \$100,000+ per watershed plan
- \$800,000 in unfunded implementation projects in 2023

Water Quality/Cyanobacteria Watershed Management Plan



Task 1: Project Meetings: Scheduling and facilitating four project meetings to communicate project progress and solicit feedback from the advisory committee.

Task 2: SSPP Development: A Site-Specific Project Plan (SSPP) is required for grant-funded watershed management plans, for the development of a watershed management plan for Northwood Lake.

Task 3: Septic System Database & Survey [OPTIONAL]: Shoreline septic systems can have a disproportionately large contribution to the total phosphorus load to a lake, making it important to have accurate documentation of the age and condition of those systems.

Task 4: Watershed Survey: A field-based watershed survey is a necessary component of a watershed management plan. Technical personnel over the course of one full field day will identify and document sites in the watershed that require implementation of stormwater controls due to impacts from stormwater, erosion, lack of infiltration (impervious cover), culvert restrictions, and/or lack of vegetated riparian buffer.

Water Quality/Cyanobacteria Watershed Management Plan



Task 5: Shoreline Survey [OPTIONAL]: A shoreline survey complements the watershed survey and is typically a component of watershed management plans developed in NH. A shoreline survey is important to provide an additional perspective on the erosion condition of the shoreline area since it has the shortest path and thus greatest potential impact to the lake.

Task 6: Build-Out Analysis [OPTIONAL]: A build-out analysis will be completed for the watershed to identify any areas in the watershed vulnerable to development based on existing zoning. The build-out analysis results can be used to target properties for conservation, revise local ordinances to better protect water quality, and model future water quality conditions if the watershed were to be further developed.

Task 7: Modeling: A lake model is a necessary component of a watershed management plan and will quantify the sources of phosphorus to the lake as part of the nine planning elements required by EPA.

Water Quality/Cyanobacteria Watershed Management Plan



Task 8: Water Quality Goal & Pollutant Reductions Needed: Setting a water quality goal and determining the pollutant reductions needed to achieve the goal are necessary components of a watershed management plan.

Task 9: Action Plan & Meeting [PUBLIC MEETING OPTIONAL]: Developing a list of action items to achieve the water quality goal is a necessary component of the watershed management plan.

Task 10: Draft/Final WMP & Public Presentation [PUBLIC PRESENTATION OPTIONAL]: A comprehensive watershed management plan for Northwood Lake that will include the required EPA nine elements.

Water Quality/Cyanobacteria Septic Survey (Task3)



Responses to date = 77, sent to 260 (twice – 2/6 and 2/14)
opened by 186

Holding Tank 8

Septic with Leach Field 66

New Technology 3

Date of System range from Unknown to 1949 to 2022

Pump out date range from Unknown to 2019 to 2023

Number of users range from 1- 5

Usage days range from 20 – 365

Distance from shore ranges from blank to 15 to 2500 feet

12 responders are not members of the NLWA

All but 4 responders said they are knowledgeable about
Cyanobacteria. Those 4 were “somewhat” knowledgeable.

Water Monitoring Parameters



- **Primary Indicators:**

- Bacteria (E. coli) - event based
- Cyanobacteria – event based
- pH - Improving
- Conductivity - Worsening

Chlorophyll-a - Stable

Exotic Aquatic Plants - milfoil

Secchi Depth - Stable

Total Phosphorous - Stable

- **Accessory Indicators:**

- Alkalinity Dissolved Oxygen
- Ice In/Out Records Water Temperature

Water Monitoring Parameters



HISTORICAL WATER QUALITY TREND ANALYSIS

PARAMETER	TREND	PARAMETER	TREND
Conductivity	Worsening	Chlorophyll-a	Improving
pH (epilimnion)	Improving	Transparency	Stable
Phosphorus (epilimnion)	Stable	Phosphorus (epilimnion)	Stable

Per Water Sampling and Chemistry, overall the water quality of Northwood Lake is stable to improving.

Per NHDES, high conductivity may indicate pollution from such sources as road salting, septic systems, wastewater treatment plants, or agriculture runoff.



Water Monitoring Parameters

Table 1. 2023 Average Water Quality Data for NORTHWOOD LAKE - NORTHWOOD

Station Name	Alk. (mg/L)	Chlor-a (ug/L)	Chloride (mg/L)	Color (pcu)	Cond. (us/cm)	E. coli (mpn/100mL)	Total P (ug/L)	Trans. (m)		Turb. (ntu)	pH
								NVS	VS		
Epilimnion	5.5	3.56	29	95	115.3	-	13	2.48	3.23	1.38	6.66
Hypolimnion	-	-	-	-	118.0	-	14	-	-	2.19	6.57
Bridge Inlet	-	-	28	-	132.1	-	20	-	-	1.97	6.47
Flat Meadows Bk. Inlet	-	-	-	-	52.9	-	20	-	-	1.51	6.01
Horse Farm	-	-	29	-	245.1	39	44	-	-	4.08	6.94
Lower WTC Inlet	-	-	12	-	61.0	-	22	-	-	1.32	5.75
Lynn Grove Beach	-	-	25	-	119.1	14	13	-	-	1.60	6.62
Lynn Grove Inlet	-	-	22	-	112.4	-	20	-	-	1.66	6.59
Old Dump Rd.	-	-	25	-	119.8	-	14	-	-	1.53	6.62
Outlet	-	-	23	-	113.9	-	15	-	-	1.54	6.72
Pleasant Pd. Inlet	-	-	22	-	101.5	-	12	-	-	0.42	5.78
Rt. 107 Inlet	-	-	16	-	91.9	-	18	-	-	1.39	6.56
Rt. 4 E Inlet	-	-	18	-	89.4	44	29	-	-	3.22	6.06
Rt. 4 W Inlet	-	-	22	-	102.3	4	20	-	-	1.06	5.24
Town Beach	-	-	-	-	116.1	-	24	-	-	1.46	6.66

NH Median Values

Median values generated from historic lake monitoring data.

Alkalinity: 4.5 mg/L **Chlorophyll-a:** 4.39 ug/L
Conductivity: 42.3 uS/cm **Chloride:** 5 mg/L
Total phosphorus: 11 ug/L **Transparency:** 3.3 m
pH: 6.6

NH Water Quality Standards

Numeric criteria for specific parameters. Water quality violation if exceeded.

Chloride: > 230 mg/L (chronic) **Turbidity:** > 10 NTU above natural
E. coli: > 88 cts/100 mL (beach)
E. coli: > 406 cts/100 mL (surface waters)
pH: between 6.5-8.0 (unless naturally occurring)

Lake Host Program



- The Lake Host™ Program is a courtesy boat inspection program implemented by NH LAKES in 2002 in cooperation with local participating groups to prevent the introduction and spread of exotic aquatic plants, like variable milfoil, from lake to lake.
- Lake Hosts conduct courtesy boat and trailer inspections of vessels both entering and leaving public waters and show boaters where to look for hitch-hiking plant fragments on boats and trailers.
- State law (RSA487:15 c-e) was implemented effective January 1, 2017 addressing transporting of boats between waterbodies. Clean, Drain, Dry – it's the law.



Lake Host Program

State of NH 2023

- Participating Groups 102
- Ramps Covered 101
- Lakes Covered 79
- Paid Hosts 872
- Inspections Reported 83,000+
- Invasive Species Saves 9 (8 arriving)
- Suspicious Samples 144

Northwood Lake 2023

- 4 Paid/6 Vol
- 1,339
- 0
- 5

Northwood Lake 2024

- 4 Paid/2 Vol
- 398
- 0
- 4

Lake Host Program



2023 Lake Host Program Suspicious Specimen Report

Updated: 9/11/2023

Note: Aquatic invasive species "saves" are in bold in the status column. "Saves" at waterbodies uninfested with the species captured are highlighted in light grey. Specimens identified by the NH Department of Environmental Services. Please note that the suspicious specimen identification process is slightly behind this season.

Waterbody	Town	Date Received	Arriving or Departing	Common Name	Latin Name	Status
Northwood Lake	Northwood	5/27/2023	D	Bladderwort and pondweed	<i>Utricularia and Potamogeton</i>	Native
Northwood Lake	Northwood	5/27/2023	D	Filamentous green algae	<i>n/a</i>	Native
Northwood Lake	Northwood	7/7/2023	D	Bladderwort	<i>Utricularia</i>	Native
Northwood Lake	Northwood	7/7/2023	D	Bladderwort	<i>Utricularia</i>	Native
Northwood Lake	Northwood	7/30/2023	D	Bladderwort	<i>Utricularia</i>	Native

Lake Host Program



2024 Lake Host Program Suspicious Specimen Report

Updated: **7/2/2024**

Note: Aquatic invasive species "saves" are in **bold** in the status column. "Saves" at waterbodies uninfested with the captured specimen are highlighted in light grey. Specimens identified by the NH Department of Environmental Services.

Waterbody <input checked="" type="checkbox"/>	Town	Date Received	Arriving or Departing	Common Name	Latin Name	Status
Northwood Lake	Northwood	6/2/2024	D	Filamentous green algae	<i>n/a</i>	Native
Northwood Lake	Northwood	6/8/2024	D	Thin-leaf pondweed	<i>Potamogeton</i>	Native
Northwood Lake	Northwood	6/8/2024	D	Filamentous green algae	<i>n/a</i>	Native
Northwood Lake	Northwood	6/16/2024	D	Filamentous green algae	<i>n/a</i>	Native

Lake Host Program

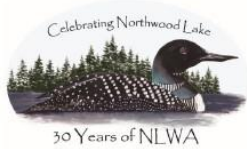


**STOP AQUATIC
HITCHHIKERS!™**

Be A Good Steward. Clean. Drain. Dry.

Clean, Drain, Dry – it's the law – RSA487:15 c-e effective Jan 1, 2017

Events – Last year



CELEBRATING NORTHWOOD LAKE - 30 YEARS OF NLWA

The Northwood Lake Watershed Association (NLWA) is a 501(c)(3) non-profit New Hampshire corporation. Our elected officers, directors and members come from all three towns that have a shoreline on Northwood Lake: Northwood, Deerfield, and Epsom. Our purpose is to preserve and protect the quality of Northwood Lake and its surroundings.

PLEASE JOIN US TO CELEBRATE OUR 30TH ANNIVERSARY!

Tickets will be sold starting in June to benefit the NLWA:

13 years and older = \$25 each
6-12 years = \$10 each
5 & under = FREE

VIP Boat Slip for the Day:
\$20 for a limited slot;
sign up coming soon!

~Not Your Average BBQ~

Steak Tips & Shrimp (adults)
Chicken Tenders (kids)

Extras:

Mixed Green Salad
Mashed Potatoes
Mac & Cheese
Rolls
Beverages & Desserts

****Alcohol-free event****



SATURDAY
JULY 15TH
2-6 PM
"RAIN OR SHINE"

AT MACCALLUM'S
BOATHOUSE

JOHNSON'S
STEAK &
SEAFOOD

JENNIFER
MITCHELL BAND

2022 THE HIPPO PRESS BEST
OF THE BEST - "BEST LOCAL
MUSICAL ACT"

GAMES,
EDUCATIONAL
TABLES & MORE!

www.northwoodlake.org

Facebook
[@northwoodlakewatershed
association](https://www.facebook.com/northwoodlakewatershedassociation)

Northwood Lake Boat Parade

SATURDAY
SEPT. 2
8 P.M.

LIGHT 'EM UP



* BATTERY OPERATED LIGHTS,
REFLECTIVE DECALS, USB PLUG-INS ~
DECORATE HOWEVER MAKES YOU
HAPPY

* LEAVE YOUR DOCK/BOAT LAUNCH AT
8 PM & GO COUNTER-CLOCKWISE

Light Up Northwood Lake

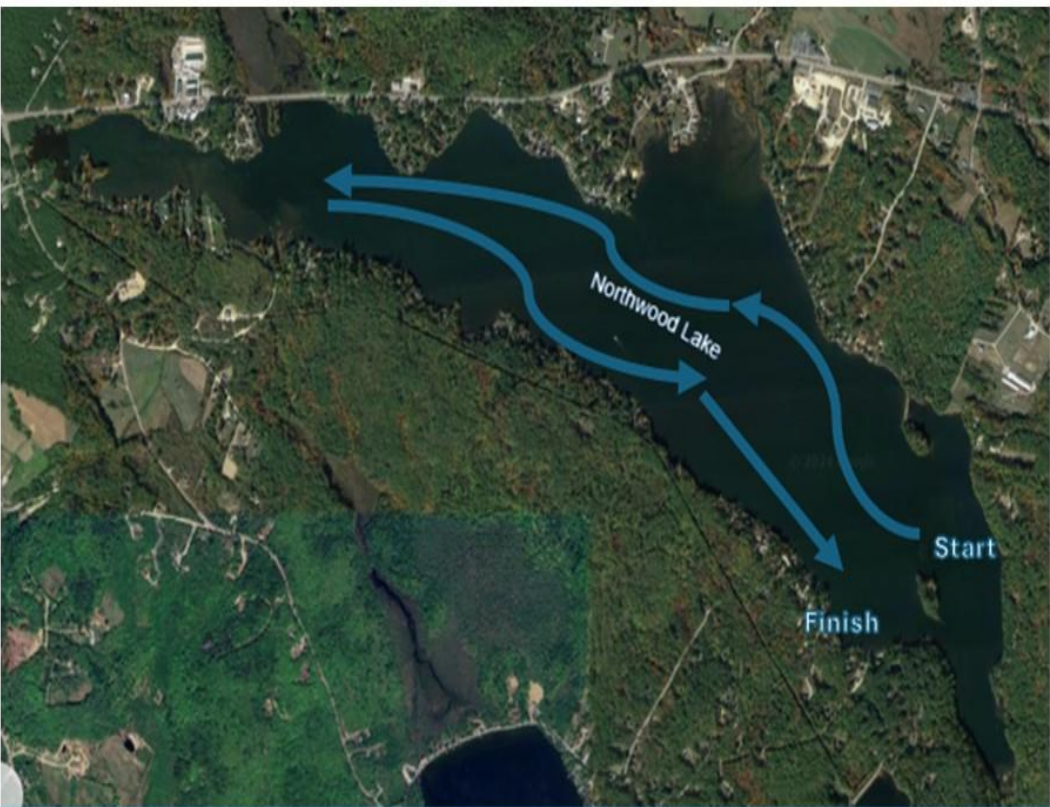
Saturday, June 24th
at 9:00 pm
\$5 per flare to benefit NLWA



TRUEVALUE HERITAGE HARDWARE
NORTHWOODS BREWING COMPANY



Events - 2024



<p>Boat Parade is June 15th from 9 – 9:45 Start between the island and the camp</p>	<p>Counterclockwise - Headway speed cannot exceed 6 mph</p>	<p>Must have bow/stern navigation lights illuminated and docking lights off</p>	<p>Maintain a safe distance between boats</p>	<p>Visit the NH Boating Laws and Rules website to get all information.</p>
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Events - 2024



Light Up Northwood Lake!

Saturday, August 31, 2024 at 9:00 PM

**\$5 per flare to benefit the
Northwood Lake Watershed Association**

TRUEVALUE HERITAGE HARDWARE | NORTHWOODS BREWING COMPANY

Events - 2024



Watershed Warrior Activity Stations:

- Station 1: How do lakes form?
- Station 2: How does water move around?
- Station 3: Reduce watershed runoff and pollution!
- Station 4: What lives in and around the water?
- Station 5: Prevent the spread of the invasives!
- Station 6: Take the Watershed Warrior Pledge!

This is a new program being offered by NH Lakes to teach kids of all ages. More information to follow.

Finances – 2023 Budget/Actuals



	2024 Budget	2023 Actual	2022 Actual	2021 Actual	2020 Actual	2019 Actual	2018 Actual	2017 Actual
GRAND TOTAL FUNDS IN	\$100,350.00	\$74,306.77	\$51,347.20	\$66,643.14	\$76,121.08	\$46,264.12	\$53,346.65	\$60,044.87
GRAND TOTAL EXPENSES	\$113,350.00	\$45,147.81	\$13,978.38	\$52,780.43	\$39,235.16	\$38,196.07	\$30,602.34	\$54,221.40

\$37,500 of 2024 Budget “Funds in” is at risk. This is a grant request and the NLWA is struggling with Federal Government approval.

2023 Membership Donations



- 2023 to include members, matches, business, and independent donations
 - MEMBERSHIP \$18,843.00 (137 members, 37% of potential donors)
 - In Memory of \$15,100.00
 - GENERAL DONATIONS \$850.00

2023 Corporate, Government Donations, Events and Merch



• Town of Northwood	\$2,000.00	(Prevention funds only)
• Town of Deerfield	\$8,000.00	
• Town of Epsom	\$4,000.00	
• NHDES Matching	\$1,160.00	
• Local Business	\$10,750.00	
• Events and Merchandise	\$9,980.89	
• Bank Interest	\$3,422.88	
• Other	\$200.00	
• TOTAL:	\$74,306.77	

2023 Expenses



• IT Domain Fees	\$307.00
• Accountant and Professional	\$7,349.00
• Event and Merchandise	\$15,979.53
• Insurance	\$1,017.00
• IRS	\$3,332.15
• Lake Treatment/Host/Diving	\$14,280.00
• Charitable partners	\$800.00
• Office/Bank/Postage	\$309.04
• Membership mailing	\$1,254.09
• Software and Apps	\$519.50
• TOTAL	\$45,147.81

Finances – 2023 Year End Treasurer Report



Northwood Lake Watershed Association

Statement of Financial Position

As of December 31, 2023

	TOTAL
ASSETS	
Current Assets	
Bank Accounts	
6 Mth CD (2295) BANK BALANCE	153,191.19
Citizens Bank	23,906.47
TD CHECKING (3313) - 1	784.57
Total Bank Accounts	\$177,882.23
Other Current Assets	
12 MONTH CD (0239) - 1	0.00
Short-term investments	0.00
Total Other Current Assets	\$0.00
Total Current Assets	\$177,882.23
TOTAL ASSETS	\$177,882.23
LIABILITIES AND EQUITY	
Liabilities	
Total Liabilities	
Equity	
Opening balance equity	148,723.27
Retained Earnings	0.00
Net Revenue	29,158.96
Total Equity	\$177,882.23
TOTAL LIABILITIES AND EQUITY	\$177,882.23

Membership and Fundraising



- Challenges –
- Reaching owners via annual letter and NLWA eNewsletter
 - Property ownership changes: Dependence on town tax assessment public records
 - Not all members provide email address when they become members. Therefore, do not receive the newsletter or membership email reminder.
 - NLWA does not share email addresses with 3rd parties
- Importance of Membership:
 - Last 4 years, approximately 40% of property owners are members
 - All property owners with deeded lake access have a stake in ensuring the health of Northwood Lake via financial support to the NLWA
 - State and local funding are not a given. Could be reduced or eliminated in the future.
 - Deerfield, Epsom and Northwood Warrant Articles
 - NHDES Grants

Membership and Fundraising



- Increase property owner membership
 - Become less dependent on government funding which can fluctuate and be less dependable.

How?

- Increase awareness of NLWA via social media
- Annual update to mailing list
- Increase lake property owner neighborhood representation on/to the NLWA board to increase in-person contact
- Multiple Donation Payment Options:
 - PayPal, eCheck, Venmo via GIVE BUTTER (new feature), standard check via USPS
- Community Activities to increase awareness of NLWA and its goals.
 - Flare Night, Boat Parade, Presence at local events (Old Home Day, Good Dogs etc.)

Officer and Board of Directors 2024 Candidates



<u>Title</u>	<u>Candidate</u>	<u>Term</u>	<u>Per By Laws</u>
• President	Brian Lobao	2024 - 2025	Expires odd years
• Vice President	Norm Royce	2024 - 2026	Expires even year
• Treasurer	Open	2023 - 2025	Expires even year
• Director	Robert Poyourow	2024 - 2026	
• Director	Pat Donahue	2024 - 2026	
• Director	Brian Boucher	2024 - 2026	



Guest Speaker

Introduce guest speaker:

Laura Diemer, FB Environmental

Topic:

Cyanobacteria – Causes, Prevention and Treatment

NLWA Contact Information



Northwood Lake Watershed Association

PO Box 152

Northwood, NH 03261-0152

Web page - www.northwoodlake.org

Email - info@northwoodlake.org

Facebook - Northwood Lake Watershed Association

New Payment Option - <https://givebutter.com/northwood-lake-watershed-association>. This will allow the use of credit cards, Venmo, or PayPal

Thanks for Coming



**THANK YOU FOR YOUR TIME TODAY AND
YOUR CONTINUED SUPPORT OF OUR
EFFORTS ON NORTHWOOD LAKE!**

Thanks for Coming



Photo credit – Loon Preservation society

7/12/2024



Photo Credit: Brian Reilly