Finding Funding: Grant and Loan Program Partnerships to Support Lake and Watershed Planning and Implementation Projects

2026 New Hampshire Lakes Congress

Concord, New Hampshire

June 5, 2026

1700 A.D. – A diverse, forested, watershed.

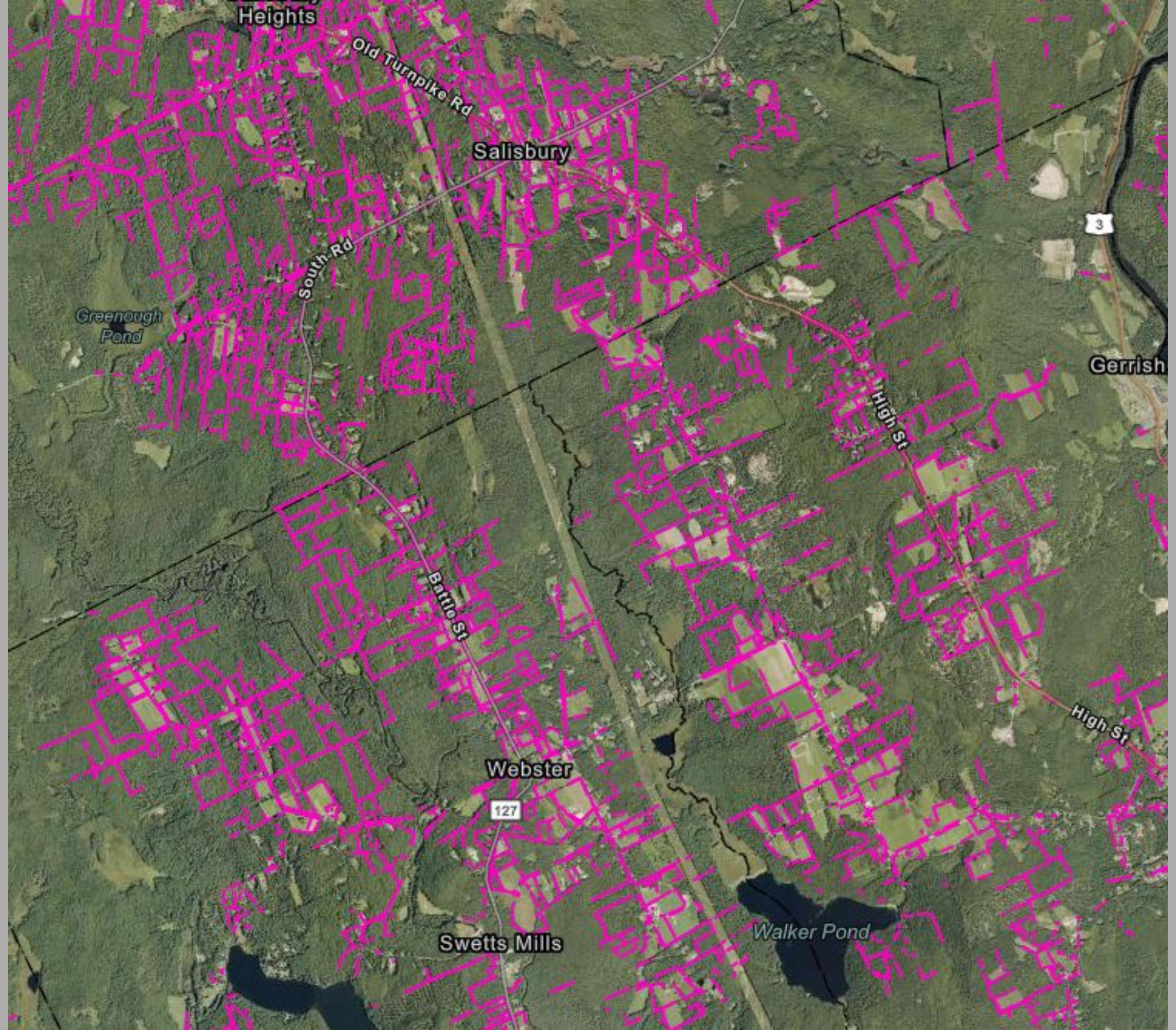
1740 A.D. – European settlement, forest clearing, hunting, trapping, and *subsistence* farming.

1880 A.D. – The peak of agriculture (sheep BOOM) followed by a decline with abandoned fields transitioned into white pine forests.


!!! BOOM !!!

1910 A.D. – Following the sheep BUST, middle age white pines were harvested, and sawmills constructed for the box board industry.

2026 A.D. – A mixed forest “legacy” landscape.


Heights
Old Turnpike Rd
Salisbury
South Rd
Greenough Pond
3
Gerrish
High St
Battle St
High St
Webster
127
Swetts Mills
Walker Pond

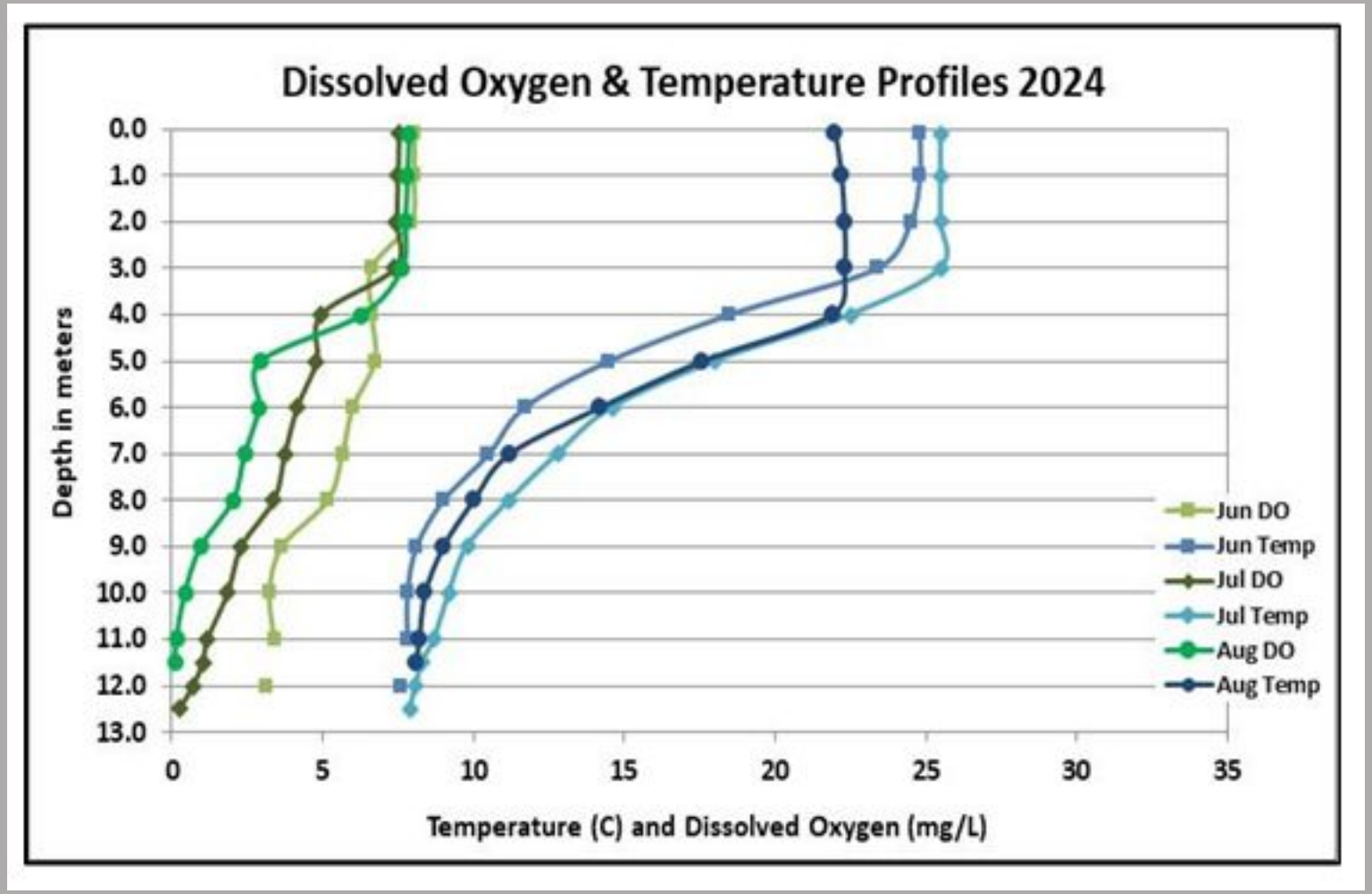
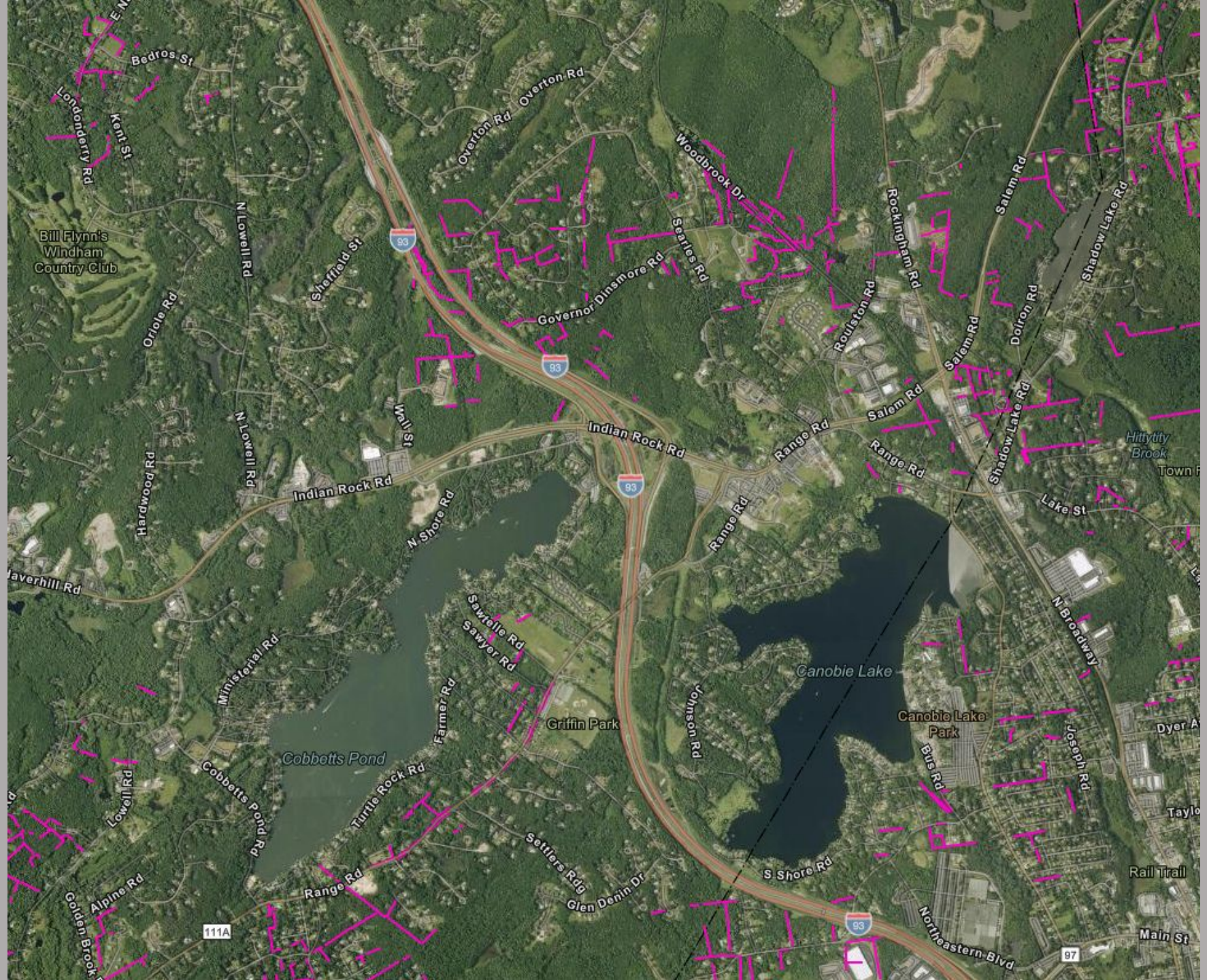


Table 1. 2024 Average Water Quality Data for WALKER POND – BOSCAWEN/WEBSTER

Station Name	Alk. (mg/L)	Chlor-a (ug/L)	Chloride (mg/L)	Color (pcu)	Cond. (us/cm)	Total P (ug/L)	Trans. (m)		Turb. (ntu)	pH
							NVS	VS		
Epilimnion	9.4	4.22	21	46	85.9	9	4.81	5.28	0.57	7.04
Metalimnion	-	-	-	-	82.9	9	-	-	0.49	6.34
Hypolimnion	-	-	-	-	85.5	17	-	-	2.60	6.38


Bedros St
Londonderry Rd
Kent St
Overton Rd
Overton Rd
Woodbrook Dr
Searles Rd
Rockingham Rd
Salem Rd
Shadow Lake Rd
Bill Flynn's Windham Country Club
N Lowell Rd
Sherfield St
Governor Dinsmore Rd
Roulston Rd
Doiron Rd
Oriole Rd
93
Salem Rd
Shadow Lake Rd
Wall St
Indian Rock Rd
Range Rd
Salem Rd
Hittytty Brook
Hardwood Rd
N Lowell Rd
Indian Rock Rd
Range Rd
Lake St
N Shore Rd
Haverhill Rd
Sawtelle Rd
Sawyer Rd
N Broadway
Ministerial Rd
Canobie Lake
Farmer Rd
Griffin Park
Johnson Rd
Canoble Lake Park
Joseph Rd
Cobbetts Pond
Bus Rd
Lowell Rd
Cobbetts Pond Rd
Turtle Rock Rd
Settlers Rdg
Rail Trail
Alpine Rd
Range Rd
Glen Denin Dr
S Shore Rd
Golden Brook
111A
93
Northeastern Blvd
97
Main St

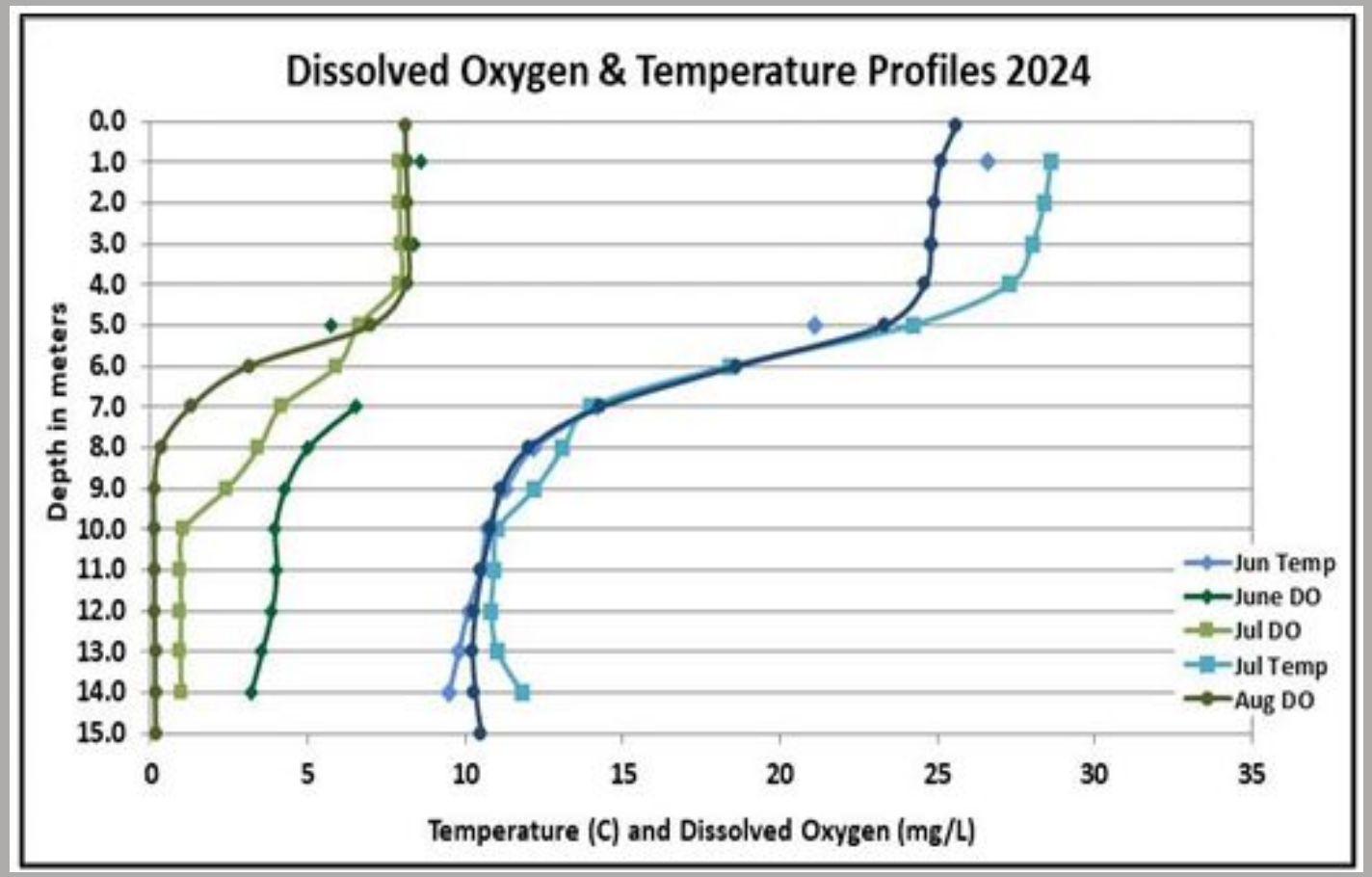
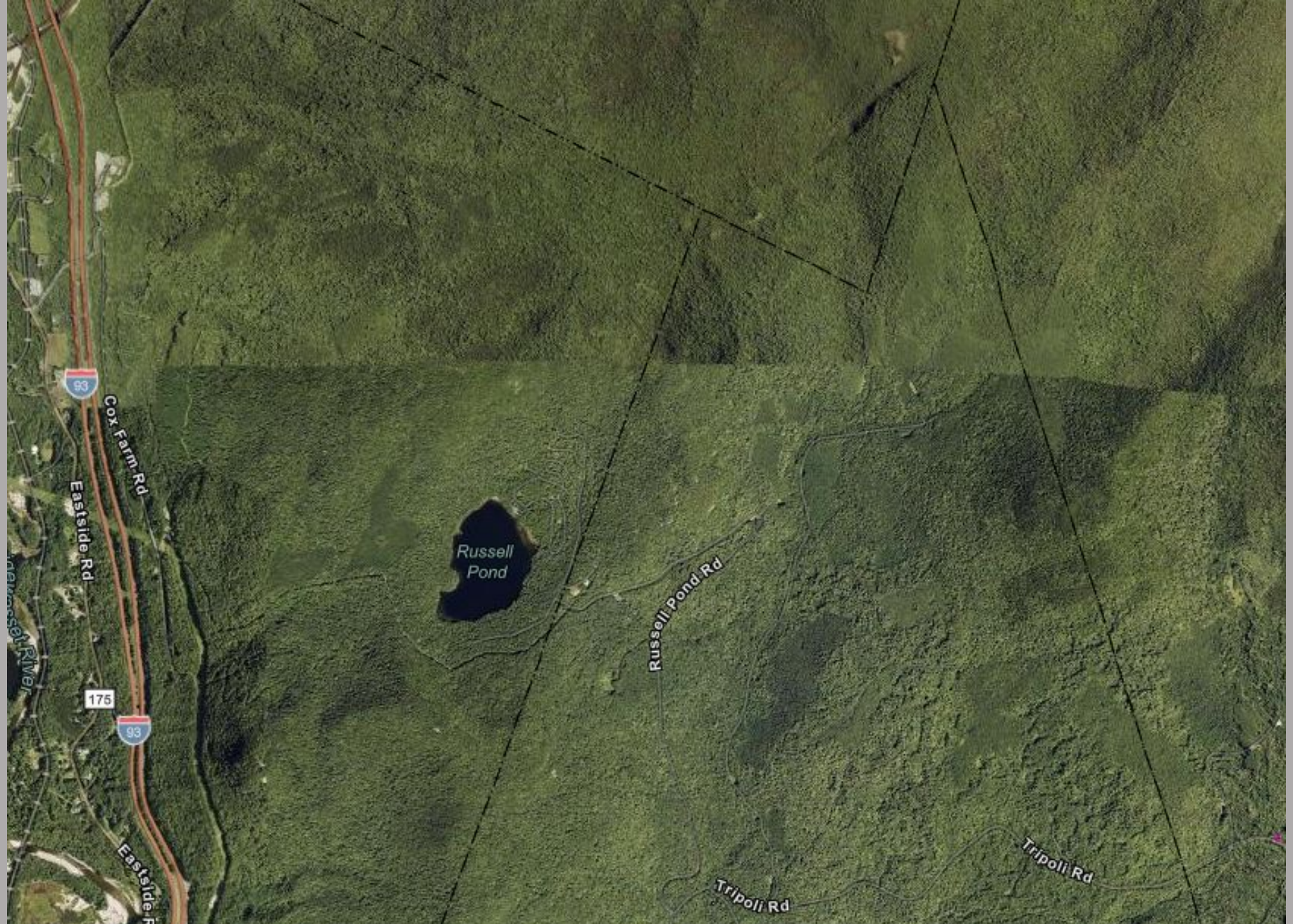


Table 1. 2024 Average Water Quality Data for CANOBIE LAKE - WINDHAM

Station Name	Alk. (mg/L)	Chlor-a (ug/L)	Chloride (mg/L)	Color (pcu)	Cond. (us/cm)	E. coli (mpn/100 mL)	Total P (ug/L)	Trans. (m)		Turb. (ntu)	pH
								NVS	VS		
Epilimnion	30.9	2.53	101	26	373.3		11	5.50	5.92	0.40	7.85
Metalimnion	-	-	-	-	358.0		16	-	-	0.75	6.98
Hypolimnion	-	-	-	-	357.0		28	-	-	1.44	6.94


Russell Pond
Russell Pond Rd
Cox Farm Rd
Eastside Rd
Eastside Rd
Tripoli Rd
Tripoli Rd
93
175
93

FIELD DATA SHEET

LAKE: RUSSELL POND
DATE: 08/27/96
TOWN: WOODSTOCK
WEATHER: OVERCAST, 70 F, CALM

	DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
	0.1	21.7	8.3	92 %
	1.0	21.7	8.3	92 %
	2.0	21.7	8.3	92 %
	3.0	21.6	8.3	92 %
	4.0	21.6	8.2	92 %
	5.0	20.1	8.7	94 %
	6.0	16.6	10.9	108 %
	7.0	12.6	11.9	108 %
	8.0	10.1	11.7	102 %
	9.0	8.6	11.4	95 %
	10.0	7.4	10.8	88 %
	11.0	6.4	9.9	78 %
	13.0	5.6	8.5	65 %
	15.0	5.3	7.5	58 %
	17.0	5.1	6.6	51 %
	19.0	5.0	6.1	48 %
	20.0	5.0	6.0	46 %
	21.0	5.1	5.5	42 %

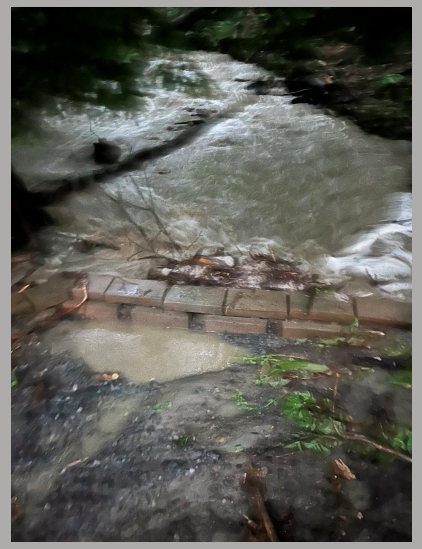
Russell Pond, Woodstock – October 7, 2025
Lake Trend Sampling Results

Total Phosphorus	0.005 mg/L	Epilimnion
Conductivity	15.3 µmhos/cm	Epilimnion
Chlorides	3.0 mg/L	Epilimnion

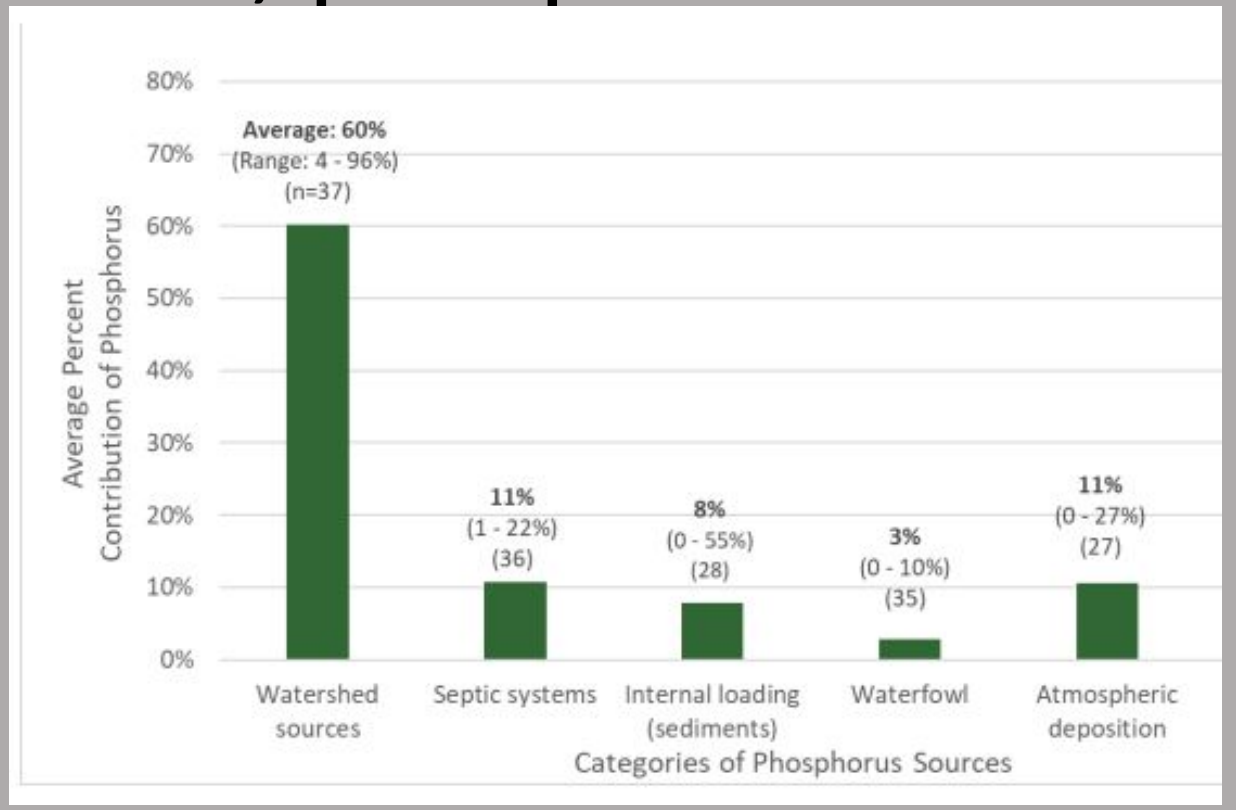
CHEMICAL:

Lake: RUSSELL POND
Town: WOODSTOCK

	4 February 1997		27 August 1996		
DEPTH (m)	7.0	14.0	2.0	8.0	18.0
pH (units)	5.8	5.9	6.8	6.2	6.1
A.N.C. (Alkalinity)	1.9	2.1	2.5	2.1	1.3
NITRATE NITROGEN	0.07	0.07	0.06		0.09
TOTAL KJELDAHL NITROGEN	0.12	0.13	< 0.10	< 0.10	0.12
TOTAL PHOSPHORUS	0.007	0.004	0.005	0.005	0.005
CONDUCTIVITY (µmhos/cm)	22.9	23.6	21.7	23.0	25.9



Statewide, phosphorus comes from:



Statewide									
Parameter	**1986-1995**	**n**	**1996-2005**	**n**	**2006-2015**	**n**	**2016-2025**	**n**	**% Change**
pH	6.73	470	6.60	431	6.63	271	6.81	280	1.2%
Sp. Cond.	38.95	466	49.89	425	52.36	270	60.99	280	56.6%
Chl-a	4.62	468	4.17	432	3.89	273	3.88	301	-16.0%
TP	12.00	468	9.00	439	9.04	284	9.70	284	-19.2%
TKN	0.35	350	0.30	345	0.29	118	0.26	95	-25.7%
Secchi (no scope)	3.00	416	3.05	414	3.25	276	3.10	284	3.3%
Secchi (scope)					3.94	217	3.62	280	
Chloride	4.00	410	7.00	370	8.40	229	10.20	277	155.0%

NHDES

8.0 Priority NPS Pollutant Categories

NPS pollutant sources are divided into minor and major categories. Goals, objectives and measurable annual milestones are included in this Plan for each Major NPS Pollutant Category.

8.1 Major NPS Pollutant Categories

Major categories of NPS pollution are sources that cause the most water quality impairments or threaten water quality degradation in high-quality watersheds. The priority restoration and protection activities associated with these major categories include technical and financial assistance, planning and implementation. A detailed description of the pollutant category, measures to control NPS pollution, key programs and partners, goals, objectives, milestones and measures of success are included for each Major NPS Pollutant Category.

Major NPS Pollutant Categories in New Hampshire include:

- Developed Land
- Hydrologic and Habitat Modification
- Subsurface (Septic) Systems
- Transportation
- Lawns and Turfgrass Management
- Agriculture

- Developed Land
- Hydrologic and Habitat Modification
- Subsurface (Septic) Systems
- Transportation
- Lawns and Turfgrass Management
- Agriculture


CYANOBACTERIA ALERTS & ADVISORIES
MORE INFO: DES.NH.GOV
Alerts:
-Captain Pond (Salem)
-Country Pond (Kingston)
-Northwood Lake
(Northwood, Deerfield)
Advisories:
-Arlington Mill Reservoir (Salem)
-Lake Monomonac (Rindge)
WMUR 9


DES
RECORD CYANOBACTERIA BLOOMS
REPORTED IN NH THIS SUMMER
WMUR 9


ADVISORY
WATER NOT CURRENTLY
SUITABLE FOR WADING OR
SWIMMING!
ADVISORY

Sunrise Lake Watershed Management Plan

December 31, 2021

Town of Middleton, NH
in coordination with
Strafford Regional Planning Commission
and the
New Hampshire Department of Environmental Services

This project was funded by a Water Quality Planning Grant from the NH Department of Environmental Services with Clean Water Act with Section 604(b) funds from the U.S. Environmental Protection Agency

Cover Photo: New Hampshire Shores Boat Ramp
Photo Credit: Don Kretchmer

STRAFFORD Regional Planning Commission · Geosyntec consultants · SC Stormwater Center · DK Water Resource Consulting LLC

SQUAM LAKES
Watershed Management Plan

February 2020

SQUAM LAKES ASSOCIATION

Comprehensive Environmental Inc.

August 2022

PARTRIDGE LAKE
WATERSHED RESTORATION PLAN

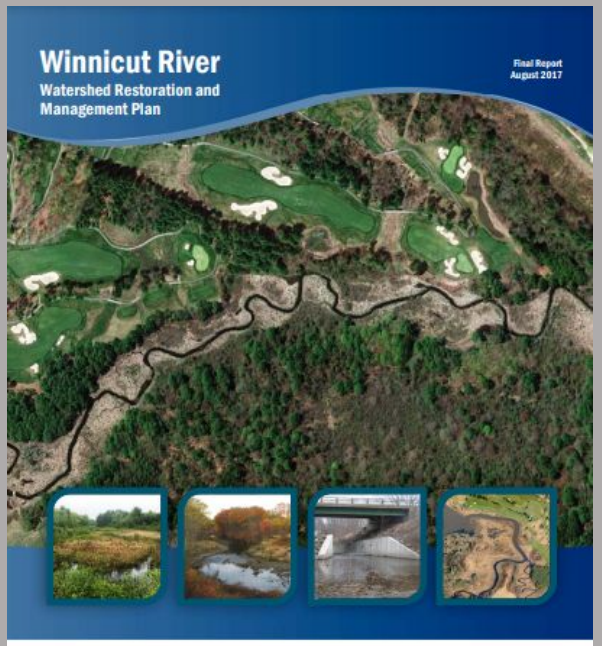
Prepared for:

Town of Littleton, New Hampshire · Partridge Lake Property Owners Association

Comprehensive Environmental Inc. • 21 Depot Street, Merrimack, NH 03054 • www.ceiengineers.com

Winnicut River
Watershed Restoration and Management Plan

Final Report
August 2017



Prepared by:
Geosyntec consultants · Wright-Pierce Engineering a Better Environment · Winnicut Watershed Group

Prepared for:
New Hampshire Rivers Council

TUCKER POND
WATERSHED-BASED MANAGEMENT PLAN

PREPARED BY FB ENVIRONMENTAL ASSOCIATES
In cooperation with the Tucker Pond Improvement Association and DK Water Resource Consulting LLC

October 2022 | **FINAL**

LAKE KANASATKA
WATERSHED-BASED MANAGEMENT PLAN

PREPARED BY FB ENVIRONMENTAL ASSOCIATES
in cooperation with the Lake Kanasatka Watershed Association

August 2022 | **FINAL**

Lake Sunapee Watershed Management Plan

March 2020

LSPA
Devoted to the Environmental Quality of the Lake Sunapee Watershed

Province Lake
Watershed Management Plan

October 2014

AWWA · New Hampshire Department of Environmental Services · SC Stormwater Center · FB Environmental

A Watershed-based Plan describes how to protect and restore your lake or pond

NHDES

Watershed-based Plans Target Stormwater and Nonpoint Source Pollutants and Hydromodification

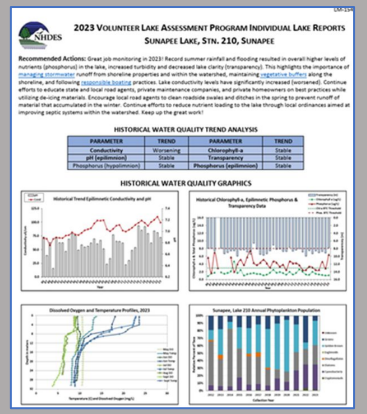
- Nutrients (phosphorus and nitrogen)
- Sediment
- Bacteria
- Chlorides (de-icing and dust control)
- Stream crossings (culverts)
- Dams and other barriers

NHDES

What is a watershed-based plan?

- Data supported, quantitative
- Identifies sources and amounts of pollutants in your watershed
- Describes and *prioritizes* actions that will mitigate pollutants

- Describes how to achieve in-lake goals (µg/L of P) you set
- Leads to a comprehensive, prioritized to-do list
- Measures progress and adjusts to conditions
- Establishes eligibility for implementation funding



2023 Volunteer Lake Assessment Program Individual Lake Reports

Sunapee Lake, Stn. 210, Sunapee

Recommended Actions: Great job monitoring in 2023! Record summer rainfall and flooding resulted in overall higher levels of nutrients (phosphorus) in the lake, increased turbidity and decreased lake clarity (transparency). This highlights the importance of managing stormwater runoff from shoreline properties and within the watershed, maintaining vegetative buffers along the shoreline, and following responsible boating practices. Lake conductivity levels have significantly increased (worsened). Continue efforts to educate state and local road agents, private maintenance companies, and private homeowners on best practices while utilizing de-icing materials. Encourage local road agents to clean roadside swales and ditches in the spring to prevent runoff of material that accumulated in the winter. Continue efforts to reduce nutrient loading to the lake through local ordinances aimed at improving septic systems within the watershed. Keep up the great work!

Historical Water Quality Trend Analysis

Parameter	Trend	Parameter	Trend
Conductivity	Worsening	Chlorophyll-a	Stable
pH (epilimnion)	Stable	Transparency	Stable
Phosphorus (hypolimnion)	Stable	Phosphorus (epilimnion)	Stable

Historical Water Quality Graphics

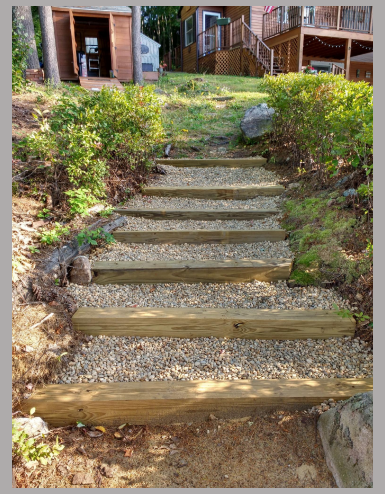
Watershed-based plan recommendations

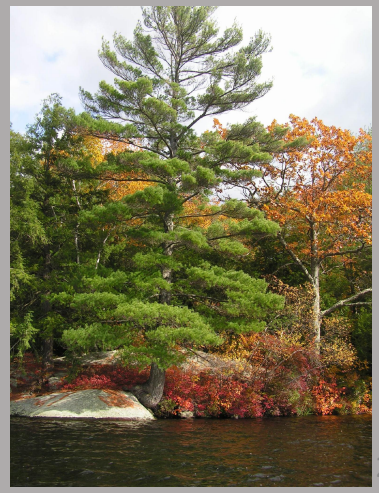
Public projects:

- Repair dirt roads to reduce erosion
- Replace, remove, or maintain culverts
- Land protection and zoning
- Boat launch repairs and upgrades
- In-lake treatments

Private projects:

- Install stormwater control measures
  - Infiltration steps
  - Rain gardens
  - Dripline trenches
- Upgrade septic systems
- Vegetate shorelines





NHDES

Table 14. Action plan for the Tucker Pond watershed.

Action Item	Responsible Party	Estimated Cost / Schedule	Potential Funding Sources
Watershed & Shoreline BMPs			
Complete design and construction of mitigation measures at nine high and medium impact sites identified in the watershed survey. **Achieves 68% (2.5 kg/yr P of 3.7 kg/yr P) of Objective 1.**	TPIA, Town of Salisbury, MCCD, private landowners	$60K-$157K 2023-28	CWSRF, Grants (319, Moose Plate, NFWF 5-Star, ILFP), Town of Salisbury, private landowners
Complete design and construction of mitigation measures at the six low impact sites identified in the watershed survey as opportunities arise (refer to Appendix B for complete list). **Achieves 16% (0.6 kg/yr P of 3.7 kg/yr P) of Objective 1.**	TPIA, Town of Salisbury, MCCD, private landowners	$19K-$62K 2023-32	CWSRF, Grants (319, Moose Plate, NFWF 5-Star, ILFP), Town of Salisbury, private landowners
Continue promoting the LakeSmart program evaluations and certifications through NH Lakes to educate property owners about lake-friendly practices such as revegetating shoreline buffers with native plants, avoiding large grassy areas, and increasing mower blade heights to 4 inches. Coordinate with NHDES Soak Up the Rain NH program for workshops and trainings. Cost assumes coordination of and materials for up to five workshops.	TPIA, Town of Salisbury, MCCD, NH Lakes, NHDES Soak Up the Rain NH	$5K 2023-32	NH Lakes, NHDES Soak Up the Rain NH, Grants (319, Moose plate), CWSRF, Town of Salisbury

A Watershed-based Plan is not

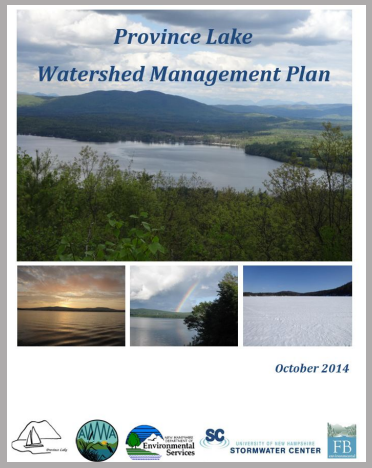
- Regulatory
  - Recommendations are *recommendations*
- All-encompassing
  - Not all pollutants, solutions, or sites can be covered, modeled, and mitigated
- Self-perpetuating
  - Plans need to be implemented by local stakeholders
  - Don’t let your watershed-based plan be a “shelfie”

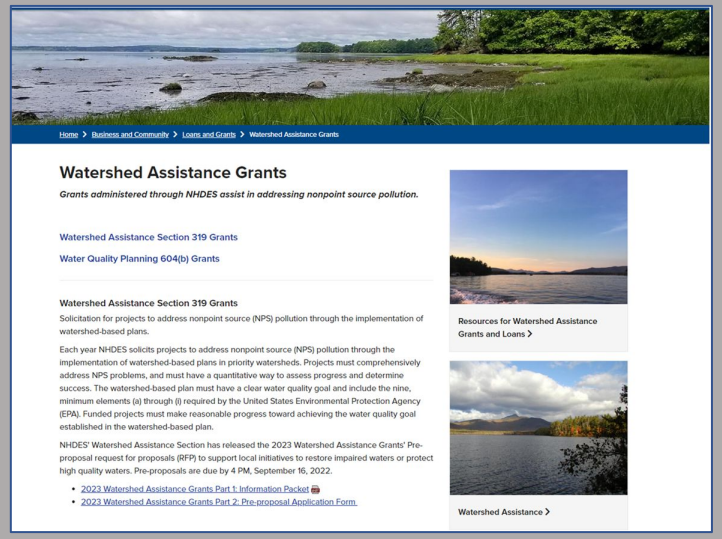
Advantages of a watershed-based plan

- Prioritizes allocation of resources
- Flexible
- **Locally driven**
- Fosters stakeholder collaboration
- Achieves co-benefits across multiple watershed sectors
- Creates eligibility for s319 Watershed Assistance Grants and other implementation resources

Watershed-based Plan Development

- Timeline
  - One or two years to secure funding
  - One to two years to prepare plan
  - 10-year lifespan, this is where you implement your plan!
  - Plans should be updated regularly and fully updated after 10 years





Grants and Loans to Develop Watershed-based Plans

Watershed Assistance Grants

Grants administered through NHDES assist in addressing nonpoint source pollution.

Water Quality Planning 604(b) Grants

Watershed Assistance Section 319 Grants

Resources for Watershed Assistance Grants and Loans >

R-WD-24-20

NEW HAMPSHIRE

NONPOINT SOURCE MANAGEMENT PROGRAM PLAN

2025-2029

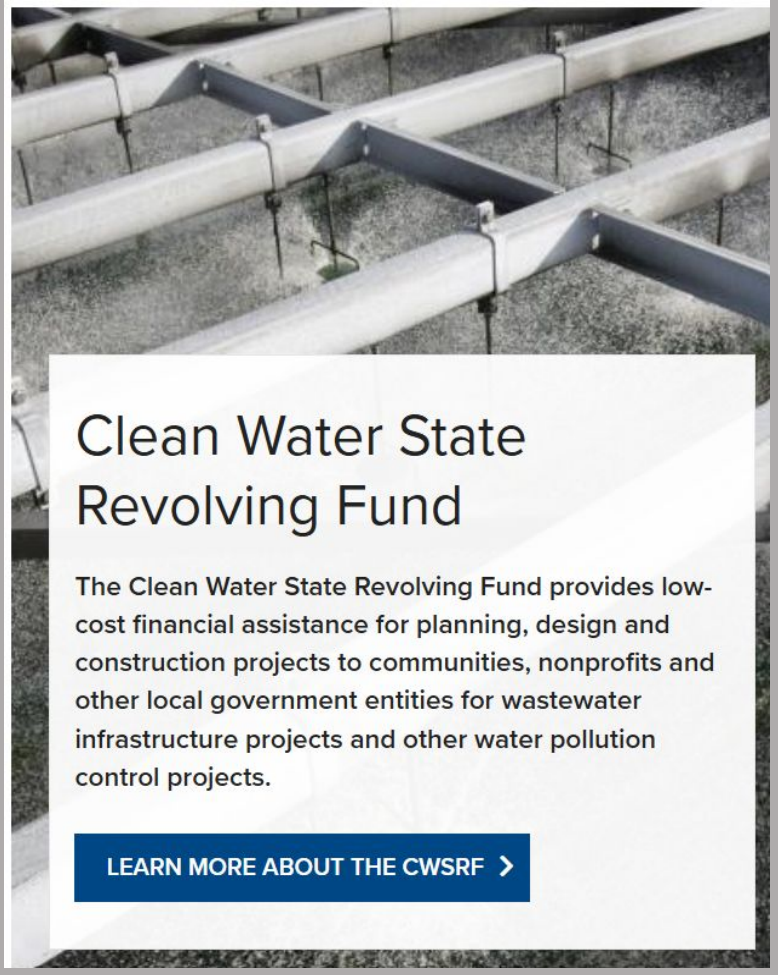
Cyanobacteria Mitigation Fund Eligibility Request

VERSION 1.1

INSTRUCTIONS

NHDES-W-07-095
February 2024
RSA 485-A/Env-Wq 2303

New Hampshire Department of Environmental Services (NHDES) is pleased to announce the availability of funds for cyanobacteria mitigation through the Cyanobacteria Mitigation Fund (CMF). The funds are intended to help defray the costs of implementing nutrient control practices designed to reduce the number of chronic and extended cyanobacteria blooms that NHDES considers a threat to the long-term health of waterbodies. The CMF enables NHDES to fund projects on a first-come, first-served basis provided applicants are eligible and meet the specific criteria outlined within Env-Wq 2300. To apply for funding, please refer to Env-Wq 2300 for the necessary materials or fill out the Eligibility Request document at the "Download Mail-in Form" link below. Once an application is complete, it can be sent to Amy.Smagula@des.nh.gov.



Clean Water State Revolving Fund

The Clean Water State Revolving Fund provides low-cost financial assistance for planning, design and construction projects to communities, nonprofits and other local government entities for wastewater infrastructure projects and other water pollution control projects.

LEARN MORE ABOUT THE CWSRF >

Water Quality Planning 604(b) Grants

Funding Amount:

- Usually around $60,000 statewide. Additional funds through 2026 allow us to pass through $160,000.

Important Dates:

- Nov. 14th Pre-proposal Consultation.
- Dec. 5th Pre-proposal submittal deadline.
- January invitation for full proposal.
- Mar. 20th Full proposal due.
- July-August-Draft Grant Agreements and send to Governor and Council.

Project Types

Eligible projects addressing water quality concerns associated with nonpoint source pollution may include but are not limited to:

- developing EPA 9-element, watershed-based plans;
- developing designated river corridor management plans;
- conducting monitoring to address water quality concerns;
- planning stormwater retrofits to address water quality impairments;
- planning green infrastructure projects that manage wet weather to maintain or restore natural hydrology; and
- working with municipalities committed to adopting specific model ordinances and/or meeting regulations (NH MS4 Permits) to address priority water quality planning concerns.

Project Priorities

- Includes only planning- no implementation dollars.
- Eligible recipients are nonprofit organizations, regional planning commissions, municipalities, state agencies, county conservation districts, etc.
- 2026, 604(b) Information Packet

Watershed Assistance Grants | NH Department of Environmental Services

NHDES Clean Water State Revolving Loan Fund

Funding Amount:

- Varies - last year a little over $1 million.
- **Stormwater Planning** principal forgiveness of up to $100,000.

Important Dates:

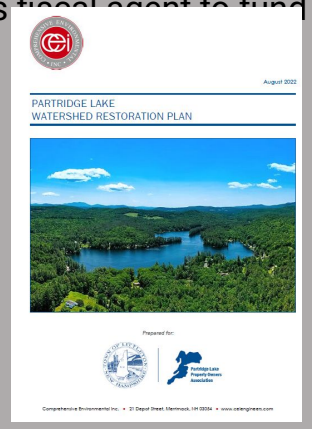
- Spring – RFP for Pre-applications is released.
- May- Pre-application due.
- August-Project Priority List released.
- Loan application is due May 1 the following year.

Project Types

- **Development** of Watershed-based management plans, consistent with EPA Key Elements a-i or an EPA-approved alternative plan.
- Source Water Protection Plans.
- Nutrient Management Plan for Agriculture.
- Nitrogen or Phosphorus Load Reduction Plans.
- Winter Maintenance Plans.
- Planning activities to implement a priority in the New Hampshire Cyanobacteria Program Plan.
- Other activities as approved by NHDES.

Project Priorities

- Stormwater Planning Projects.
- Must meet CWSRF requirements such as Water Quality Improvement.
- Will lead to future implementation projects.
- Principal forgiveness is only for municipal government loan recipients; however, lake associations have had success partnering with a municipality to act as fiscal agent to fund projects.



CWSRF Stormwater Planning Guidance Document

Grants and Loans for Implementation of Watershed Management and Restoration Plans

Home > Business and Community > Loans and Grants > Watershed Assistance Grants

Watershed Assistance Grants

Grants administered through NHDES assist in addressing nonpoint source pollution.

Watershed Assistance Section 319 Grants

Water Quality Planning 604(b) Grants

Watershed Assistance Section 319 Grants

Solicitation for projects to address nonpoint source (NPS) pollution through the implementation of watershed-based plans.

Each year NHDES solicits projects to address nonpoint source (NPS) pollution through the implementation of watershed-based plans in priority watersheds. Projects must comprehensively address NPS problems, and must have a quantitative way to assess progress and determine success. The watershed-based plan must have a clear water quality goal and include the nine, minimum elements (a) through (i) required by the United States Environmental Protection Agency (EPA). Funded projects must make reasonable progress toward achieving the water quality goal established in the watershed-based plan.

NHDES' Watershed Assistance Section has released the 2023 Watershed Assistance Grants' Pre-proposal request for proposals (RFP) to support local initiatives to restore impaired waters or protect high quality waters. Pre-proposals are due by 4 PM, September 16, 2022.

- 2023 Watershed Assistance Grants Part 1: Information Packet
- 2023 Watershed Assistance Grants Part 2: Pre-proposal Application Form

Resources for Watershed Assistance Grants and Loans >

Watershed Assistance >

Watershed Assistance Section 319 Grants

Funding Amount:

- Usually around $545,000 statewide.
- Typical project request is $50,000-$100,000.

Important Dates:

- RFP usually released in June but has been delayed due to EPA funding uncertainties last summer.
- Typically takes one year from pre-proposal to grant kick off.

Project Types

- Implementation of BMPs.
- Implementation of SCMs.
- Dam and barrier removals.
- Stream restorations.
- **Must** be recommended in a recent Watershed-based Plan or Alternative Plan.
- Can include permitting or final planning elements.

Project Priorities

- Typically, two-year timeframe.
- Non-federal match required = 40 percent of project total.

Watershed Assistance Grants | NH Department of Environmental Services

NHDES Watershed Assistance Grants
Section 319 of the USEPA Clean Water Act

NHDES' Watershed Assistance Section has released the 2025 Watershed Assistance Grants' Pre-proposal request for proposals (RFP) to support local initiatives to restore impaired waters or protect high quality waters. Pre-proposals are due by **4:00 PM, September 13, 2024**.

- 2025 Watershed Assistance Grants Part 1: Information Packet
- 2025 Watershed Assistance Grants Part 2: Pre-proposal Application Form

IV. Watershed Assistance Grant Recipient Eligibility

Governmental subdivisions and non-profit organizations are eligible to receive Watershed Assistance Grants. Examples include:

- ✓ Municipalities.
- ✓ Regional planning commissions.
- ✓ Nonprofit organizations.
- ✓ County conservation districts.
- ✓ State agencies.
- ✓ Watershed associations.
- ✓ Lake, pond or river associations.
- ✓ Public water suppliers.
- ✓ Designated river local advisory committees.

Other groups may also apply for grant funding by partnering with governmental subdivisions or nonprofit organizations. **Non-profit organizations must be registered with the New Hampshire Secretary of State** (this can be done on the New Hampshire Secretary of State's website).

Note: Grant recipients may use these grant funds to sub-contract with private entities, such as environmental consulting or engineering firms selected through an approved procurement procedure.

PROCESS	ESTIMATED SCHEDULE
1a. Contact NHDES about your pre-proposal.	**By September 6, 2024**
1b. Deadline for submittal of pre-proposals.	**September 13, 2024 at 4:00 PM**
2. NHDES will evaluate pre-proposals.	Early October 2024
3. NHDES will contact organizations that submitted pre-proposals with status update and schedule interviews if necessary.	October 2024
4. Deadline for submittal of full proposals	**Jan 10, 2025 at 4:00 PM**
5. NHDES will make final selection of full proposals to receive funding and submit to EPA for review.	February-March 2025
6. NHDES will draft Grant Agreements and send to organizations for signatures.	April-May 2025
7. NHDES Commissioner and N.H. Attorney General's office review Grant Agreements.	May - June 2025
8. Submit Grant Agreements to Governor and Executive Council for approval.	June-August 2025
9. Governor and Executive Council approved project may begin.	Fall 2025

* The dates in this table are subject to federal funds, dates are subject to change.

Pre-proposal submittal consultation with NHDES staff is required.

NHDES Clean Water State Revolving Loan Fund

Funding Amount:

- Varies year to year. In 2025, $3.85 million was authorized.
- Principal forgiveness is calculated annually. In 2025, it was 15 percent.

Important Dates:

- Spring- RFP for Pre-applications released.
- May - Pre-applications due to NHDES.
- August - Project Priority List released.
- Loan application is due May 1 the following year.

Project Types

- **Implementation** of a Plan, which includes or promotes a water quality benefit, from one of the following:
  - o Watershed-based or Alternative Plan.
  - o MS4 Plan.
  - o Asset Management Program.
  - o Source Water Protection Plan.
  - o Nitrogen or Phosphorus Reduction Plan.
  - o Total Maximum Daily Load (TMDL).
  - o Capital Improvement Plan.
  - o New Hampshire Cyanobacteria Plan.
  - o Nutrient Management Plan.
  - o Other, as approved by NHDES project manager.

Project Priorities

- Implementation Projects.
- Must meet CWSRF requirements such as water quality improvement.
- Principal forgiveness is only for municipal government loan recipients.

CWSRF Stormwater Planning Guidance Document

Cyanobacteria Mitigation Fund

Funding Amount:

- Initiated in 2023 and funded from a one-time legislative appropriation of $1 million. Approximately $100,000 remains available for future grants.
- In 2024, a one-time re-allocation of American Rescue Plan Act (ARPA) funds also supplemented the program (ARPA funding 100% spent down).

Important Dates:

- Grant application is on a running basis as project arise, no deadlines for application.

Project Types

- **Implementation** of "boots on the ground" type projects, either watershed restoration actions or in-lake management actions to address cyanobacteria blooms.
- Total of 11 projects funded to date.

Selected Project examples:

- 2024- Lake Kanasatka Aluminum Treatment- $500,000
- 2025- Province Lake Stormwater Engineering Plan- $50,000
- 2025- Tucker Pond watershed stabilization and stormwater mitigation projects- $200,000
- 2025- Partridge Lake Aluminum Treatment- $290,000

Project Priorities

- Municipalities, community and non-profit groups and lake and river watershed associations are eligible to receive funds.
- Goal: reduce the number of chronic and extended cyanobacteria blooms that are a threat to the health and recreational values of our lakes.

Project Criteria includes:

- Fully developed Project Plan
- Alternatives Analysis
- Implementation Plan over life of project
- Ongoing operations management and safety plan
- Detailed monitoring plan during and post project
- Documented minimization of environmental harm
- Progress toward nutrient-based numeric target (P)

Link to website | contact email: Amy.P.Smagula@des.nh.gov

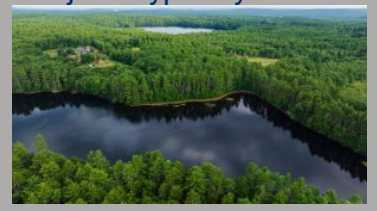
Local Source Water Protection Grant

Funding Amount:

- Varies annually
- Maximum award per project is $30,000
- Funded through the Drinking Water State Revolving Fund Set- Asides

Important Dates:

- November 1st – Grant applications due annually
- Funding decisions are made in January
- Projects must be approved by Governor & Council by June 30
- Projects typically have a



Project Types

- Delineation – refine Source Water Protection Area delineations
- Assessment – inventory or evaluate existing and potential threats to water quality
- Planning – identify appropriate measures to ensure implementation of best management practices, local land use regulations, and/or adoption of source water protection rules through the creation of a source water protection plan
- Implementation – implement protection and security measures in source water protection areas such as stormwater control measures, transaction costs for land conservation, educational programs, water conservation measures, shoreline surveys, controlling access to sources, and more.

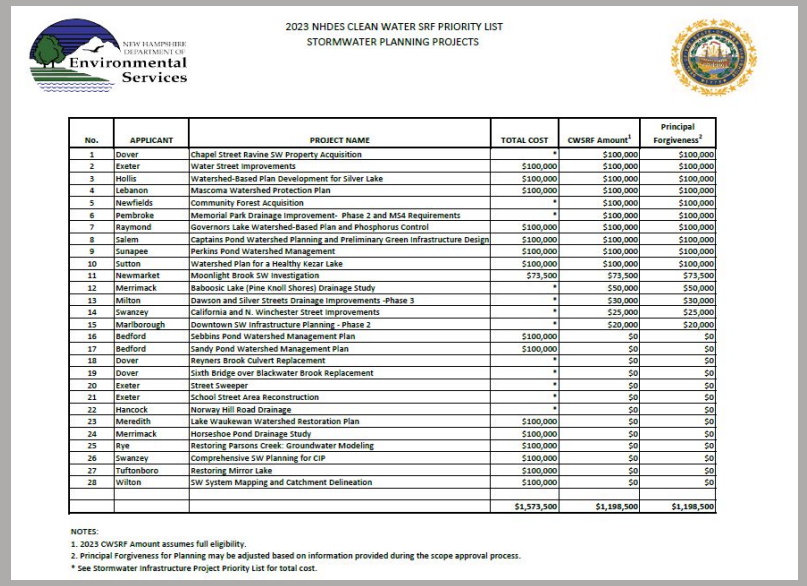
Project Priorities

- Projects must result in the protection of an **active or planned source of public drinking water**
- Eligible applicants: water suppliers, regional planning commissions, county conservation districts, watershed associations, municipalities, nonprofit organizations, state agencies, educational institutions
- Applicants can apply for funding for multiple projects per grant cycle
- No match required
- Full information packet available at link below

Local Source Water Protection Grant | **Melissa.E.Lang@des.nh.gov**

Where to Start- A CWSRF Case Study – Kezar Lake

- Pre-application- online form
- Ranking
  - Be sure to use the ranking criteria to maximize your points
- Project Priority List

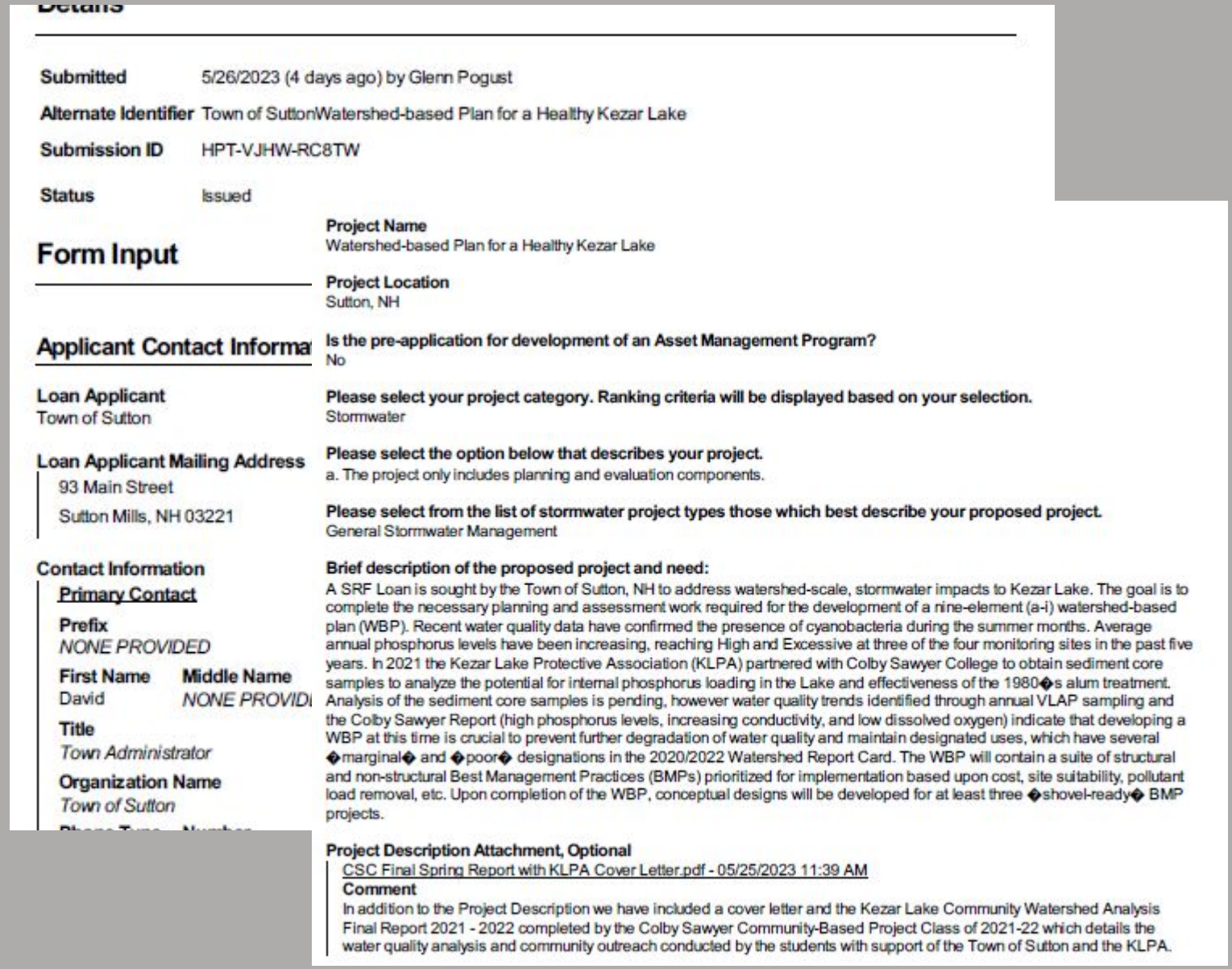


NEW HAMPSHIRE DEPARTMENT OF Environmental Services

2023 NHDES CLEAN WATER SRF PRIORITY LIST
STORMWATER PLANNING PROJECTS

No.	APPLICANT	PROJECT NAME	TOTAL COST	CWSRF Amount[1]	Principal Forgiveness[2]
1	Dover	Chapel Street Ravine SW Property Acquisition	*	$100,000	$100,000
2	Exeter	Water Street Improvements	$100,000	$100,000	$100,000
3	Hollis	Watershed-Based Plan Development for Silver Lake	$100,000	$100,000	$100,000
4	Lebanon	Mascoma Watershed Protection Plan	$100,000	$100,000	$100,000
5	Newfields	Community Forest Acquisition	*	$100,000	$100,000
6	Pembroke	Memorial Park Drainage Improvement- Phase 2 and MS4 Requirements	*	$100,000	$100,000
7	Raymond	Governors Lake Watershed-Based Plan and Phosphorus Control	$100,000	$100,000	$100,000
8	Salem	Captains Pond Watershed Planning and Preliminary Green Infrastructure Design	$100,000	$100,000	$100,000
9	Sunapee	Perkins Pond Watershed Management	$100,000	$100,000	$100,000
10	Sutton	Watershed Plan for a Healthy Kezar Lake	$100,000	$100,000	$100,000
11	Newmarket	Moonlight Brook SW Investigation	$73,500	$73,500	$73,500
12	Merrimack	Baboosic Lake (Pine Knoll Shores) Drainage Study	*	$50,000	$50,000
13	Milton	Dawson and Silver Streets Drainage Improvements -Phase 3	*	$30,000	$30,000
14	Swanzey	California and N. Winchester Street Improvements	*	$25,000	$25,000
15	Marlborough	Downtown SW Infrastructure Planning - Phase 2	*	$20,000	$20,000
16	Bedford	Sebbins Pond Watershed Management Plan	$100,000	$0	$0
17	Bedford	Sandy Pond Watershed Management Plan	$100,000	$0	$0
18	Dover	Reyners Brook Culvert Replacement	*	$0	$0
19	Dover	Sixth Bridge over Blackwater Brook Replacement	*	$0	$0
20	Exeter	Street Sweeper	*	$0	$0
21	Exeter	School Street Area Reconstruction	*	$0	$0
22	Hancock	Norway Hill Road Drainage	*	$0	$0
23	Meredith	Lake Waukewan Watershed Restoration Plan	$100,000	$0	$0
24	Merrimack	Horseshoe Pond Drainage Study	$100,000	$0	$0
25	Rye	Restoring Parsons Creek: Groundwater Modeling	$100,000	$0	$0
26	Swanzey	Comprehensive SW Planning for CIP	$100,000	$0	$0
27	Tuftonboro	Restoring Mirror Lake	$100,000	$0	$0
28	Wilton	SW System Mapping and Catchment Delineation	$100,000	$0	$0
			$1,573,500	$1,198,500	$1,198,500

NOTES:
1. 2023 CWSRF Amount assumes full eligibility.
2. Principal Forgiveness for Planning may be adjusted based on information provided during the scope approval process.
* See Stormwater Infrastructure Project Priority List for total cost.



Submitted 5/26/2023 (4 days ago) by Glenn Pogust

Alternate Identifier Town of SuttonWatershed-based Plan for a Healthy Kezar Lake

Submission ID HPT-VJHW-RC8TW

Status Issued

Form Input

Applicant Contact Informa

Loan Applicant
Town of Sutton

Loan Applicant Mailing Address
93 Main Street
Sutton Mills, NH 03221

Contact Information
Primary Contact

Prefix
NONE PROVIDED

First Name David

Middle Name *NONE PROVIDI*

Title
Town Administrator

Organization Name
Town of Sutton

Project Name
Watershed-based Plan for a Healthy Kezar Lake

Project Location
Sutton, NH

Is the pre-application for development of an Asset Management Program?
No

Please select your project category. Ranking criteria will be displayed based on your selection.
Stormwater

Please select the option below that describes your project.
a. The project only includes planning and evaluation components.

Please select from the list of stormwater project types those which best describe your proposed project.
General Stormwater Management

Brief description of the proposed project and need:
A SRF Loan is sought by the Town of Sutton, NH to address watershed-scale, stormwater impacts to Kezar Lake. The goal is to complete the necessary planning and assessment work required for the development of a nine-element (a-i) watershed-based plan (WBP). Recent water quality data have confirmed the presence of cyanobacteria during the summer months. Average annual phosphorus levels have been increasing, reaching High and Excessive at three of the four monitoring sites in the past five years. In 2021 the Kezar Lake Protective Association (KLPA) partnered with Colby Sawyer College to obtain sediment core samples to analyze the potential for internal phosphorus loading in the Lake and effectiveness of the 1980s alum treatment. Analysis of the sediment core samples is pending, however water quality trends identified through annual VLAP sampling and the Colby Sawyer Report (high phosphorus levels, increasing conductivity, and low dissolved oxygen) indicate that developing a WBP at this time is crucial to prevent further degradation of water quality and maintain designated uses, which have several "marginal" and "poor" designations in the 2020/2022 Watershed Report Card. The WBP will contain a suite of structural and non-structural Best Management Practices (BMPs) prioritized for implementation based upon cost, site suitability, pollutant load removal, etc. Upon completion of the WBP, conceptual designs will be developed for at least three "shovel-ready" BMP projects.

Project Description Attachment, Optional
CSC Final Spring Report with KLPA Cover Letter.pdf - 05/25/2023 11:39 AM

Comment
In addition to the Project Description we have included a cover letter and the Kezar Lake Community Watershed Analysis Final Report 2021 - 2022 completed by the Colby Sawyer Community-Based Project Class of 2021-22 which details the water quality analysis and community outreach conducted by the students with support of the Town of Sutton and the KLPA.

Warrant Article

Article 5: To see if the Town will vote to raise and appropriate the sum of $100,000 (gross budget) by obtaining a New Hampshire Department of Environmental Services Clean Water State Revolving Fund (NHCWFSR) loan for the purpose of hiring a Certified Lake Management/Engineering firm to prepare a watershed-based plan for Kezar Lake, and to authorize the issuance of not more than $100,000 of bonds or notes in accordance with the provisions of the Municipal Finance Act (RSA 33) and to authorize the Select Board to issue and negotiate such bonds or notes and to determine the rate of interest thereon for the sole purpose of obtaining that loan. The plan will address watershed scale stormwater impacts to the lake and prevent future algae blooms. Once the plan is completed, the Town will be eligible for certain grants aimed at reducing threats to the lake's ecosystem and to remediate identified pollution threats. The bond will be in the form of a loan from the Department of Environmental Services Clean Water State Revolving Fund and the full amount of principal will be entirely forgiven when the plan is completed pursuant to DES requirements. The Town will be required to pay interest on the loan amount, however, this article is contingent upon the Kezar Lake Protective Association (KLPA) depositing into escrow an amount sufficient to reimburse the Town for all of those interest payments prior to finalization of the loan agreement; as well as KLPA providing a surety to repay any portion of the principal which is not forgiven, if any.
Not recommended by the Budget Committee.
Recommended by the Board of Selectmen.
3/5 ballot vote required

Motion made by Glenn Pogust to put Article 5 up for discussion. Seconded by Bob DeFelice.

Glenn explained the article and the purpose. It is a loan from DES Clean Water State Revolving Fund. 100% forgivable loan. Town must apply for this loan. To keep this a no risk to the town, 2% per year interest which Kezar Lake Protective Association will pay into an escrow for the life of the loan. They will also provide a surety or insurance policy. A consultant, who has been approved by the state, will be used. The money will be paid to them when bill is received. Kezar is the most valuable asset in the Town. Only body of water fully accessible for recreation.

We will have access to state grants to do work on roads for contamination of the lake, drainage features, money to get things done in New London that impact the watershed.

Moderator Lick opened up the floor for anyone to speak on this article.

There were numerous residents that spoke about the lake and its condition in the past. We have seen increased wildlife over the past ten years. We now have nesting loons and other birds.

Bob DeFelice questioned what the debt ratio limit would be.

Wally stated the debt ratio is currently 1% with a limit of 3%.

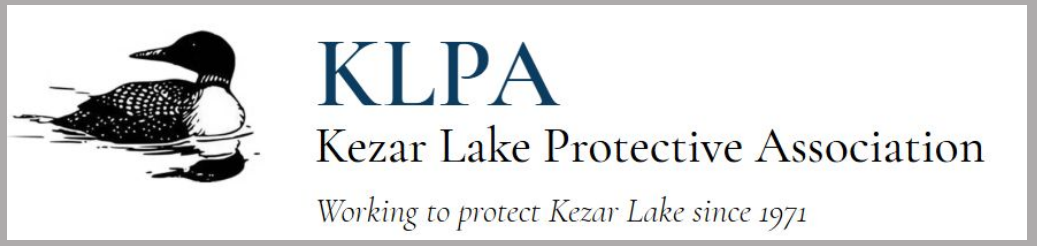
Moderator Lick explained the voting. There will be a five-minute break for the voting to take place. We will have the results later in the meeting.

The ayes have it.

Article 5 Bond Votes voting results. There were 135 votes cast. In order to pass they needed 81 votes for 60%. There was a 97% vote in favor with 130 votes. It passed overwhelmingly.

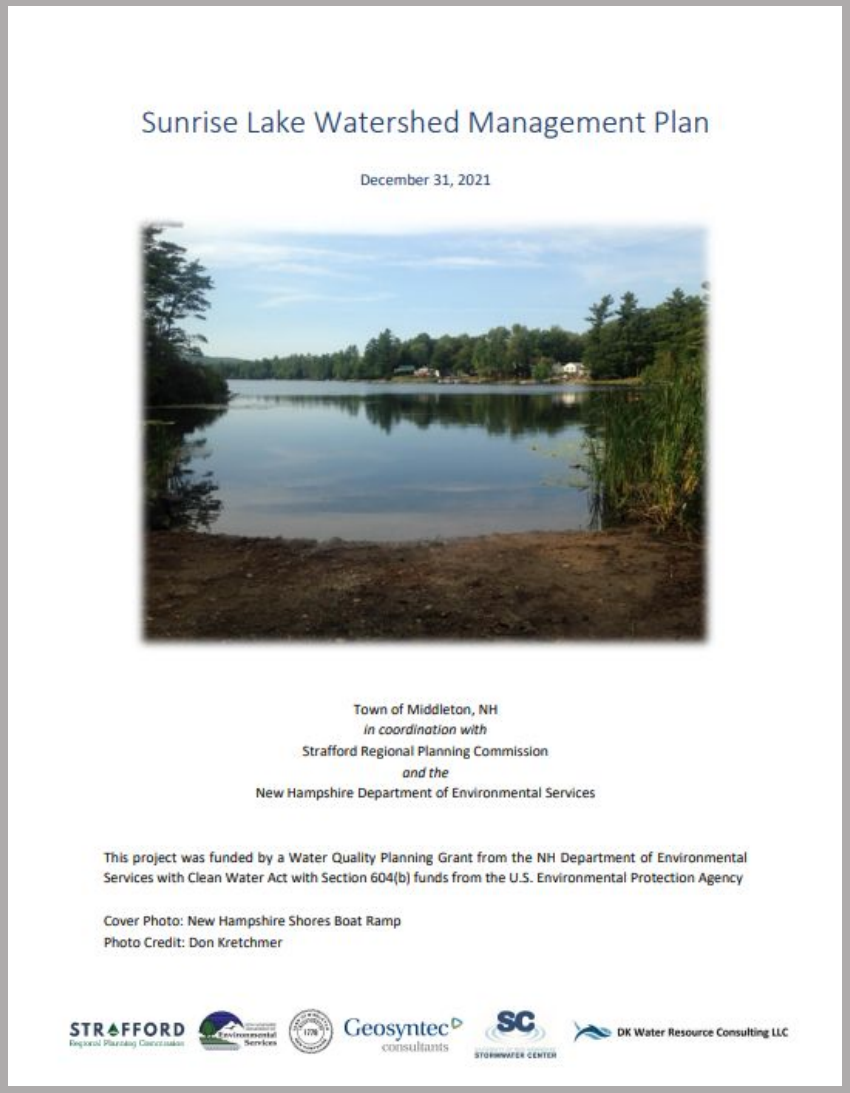
Partners and Steering Committee

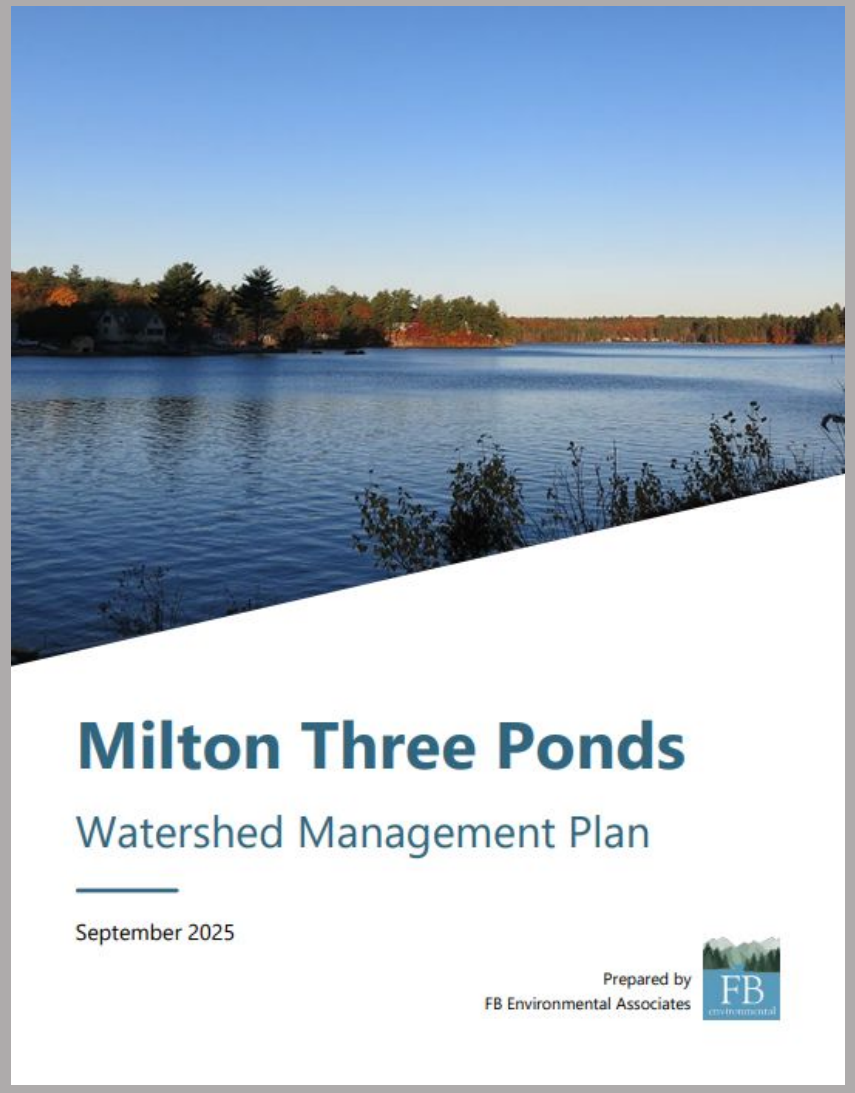
- Town of Sutton
- Kezar Lake Protective Association
- Hiring Consultant through Request for Qualifications
  - Forrest Bell Environmental Associates (FBE)
  - Subcontract with Horsley Witten for Engineering of Stormwater Control Measures

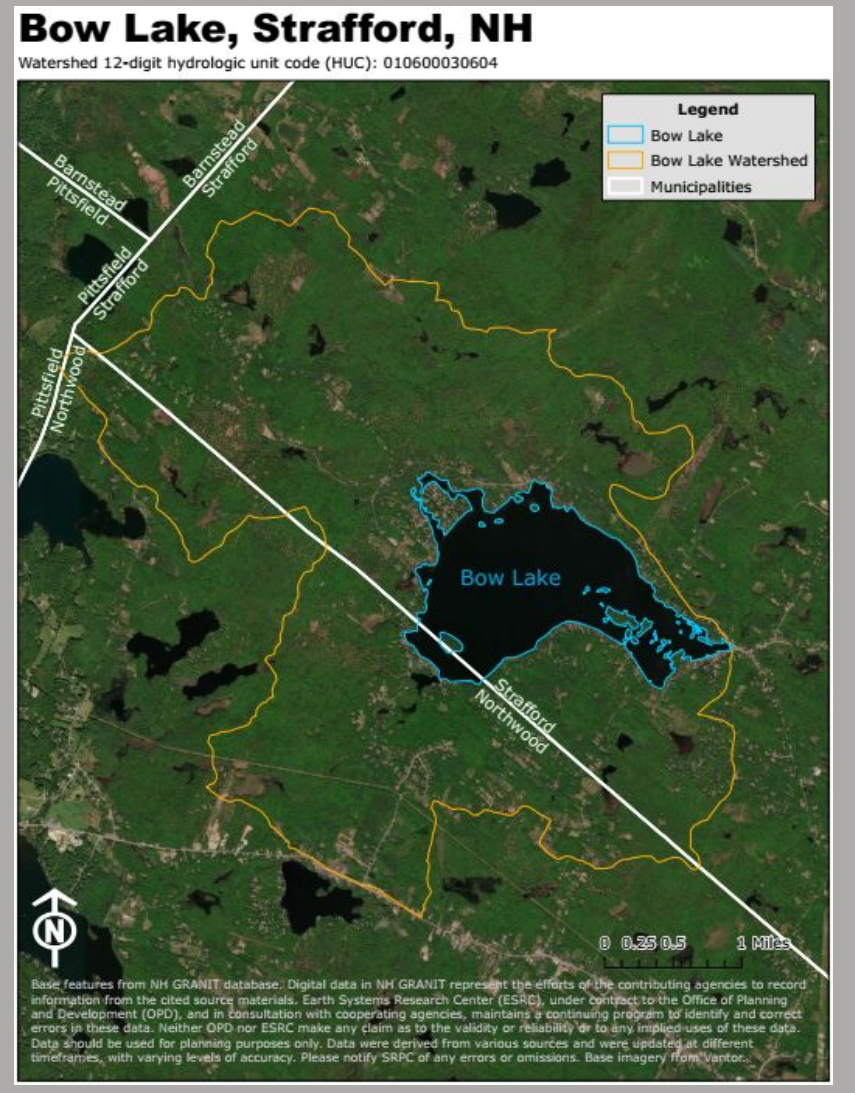


From Watershed Plans to Shovels in the Ground:

How RPCs Help Communities Secure Funding, Develop Plans, and Deliver Projects







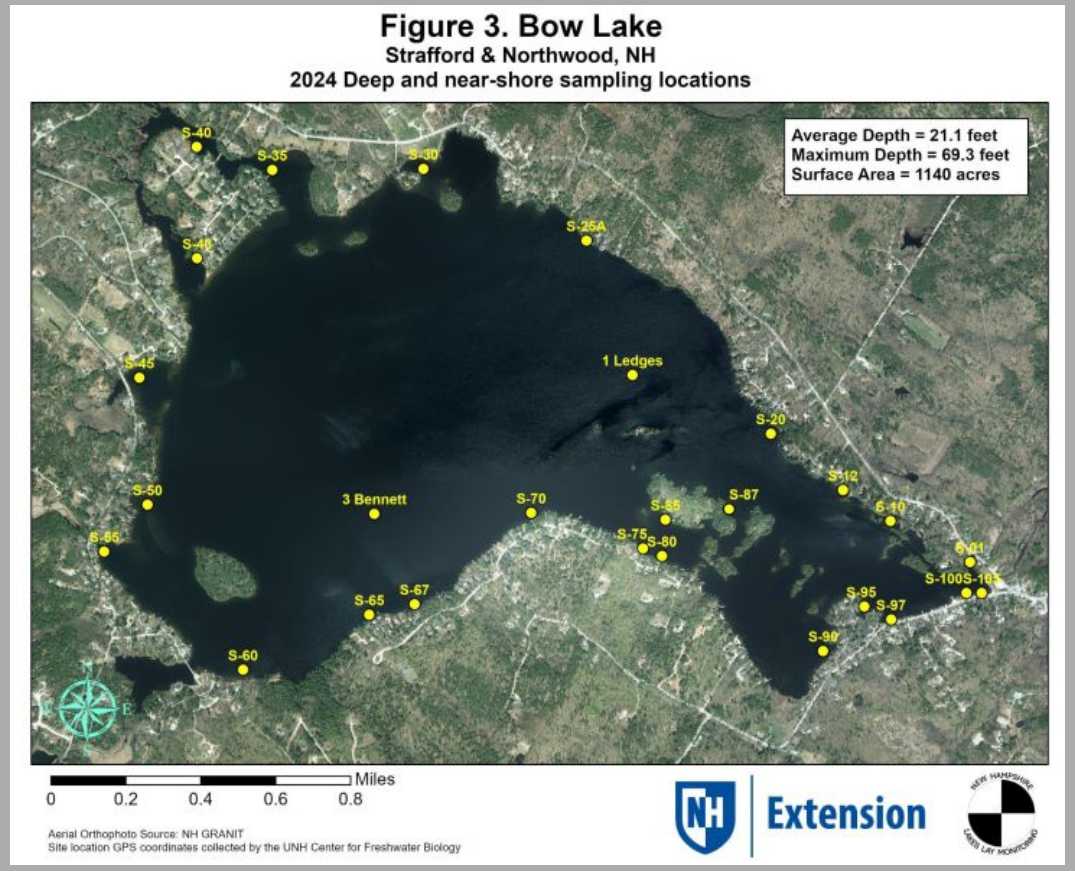
Protect Early, Fund Creatively

DON’T WAIT!

Protect Early, Fund Creatively

1. Town Appropriation $25,000
2. PREPA Grant $25,000
3. 604(b) Grant $56,500

$106,500



Allowed for a more comprehensive planning process.

Continue to Fund Creatively

1. Great Bay 2030 Y2 $90,000
2. Great Bay 2030 Y4 $4,950

Don’t rely on one funding source – DIVERSIFY!

Getting a Shovel in the Ground

Don’t Get Discouraged

SRPC’s first application was not selected for 319 funds in FY2023…

Attachment B

2024 Watershed Assistance and Restoration Grant Ranking

Organization	Project Name	Reviewer						Rank by avg.
		A	B	C	D	E	AVG	
Strafford Regional Planning Commission	Sunrise Lake Watershed Management Plan Implementation Phase I: Structural BMPs and Development of Regulatory Mechanisms	89	83	91	87	94	88.[illegible]	1

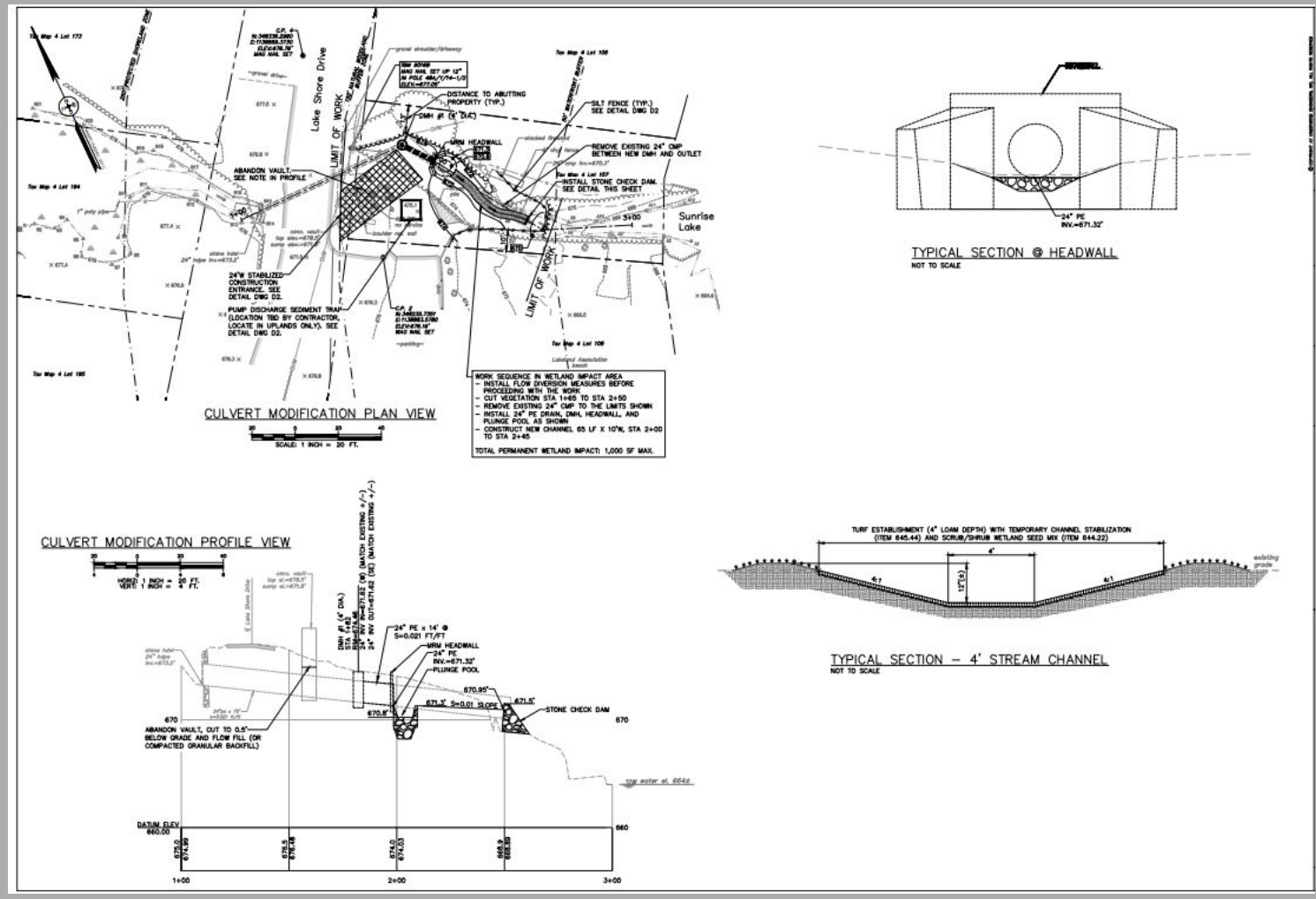
a year later our application was the #1 ranked project in the state.

Don’t Get Discouraged

Engagement with community champions and stakeholder led to four milestones:

1. **New Hampshire Shores Association passing a resolution to help protect the lake**
2. **Establishment of the Sunrise Lake Watershed Advisory Committee**
3. **Increasing VLAP monitoring activities**
4. **Providing a letter of commitment**

Tell Them to Go Back and Sharpen Their Pencils



Engineering costs are expensive, but they're not *THAT* expensive!

Contractor Selection

1. RFB is clear and concise
2. Scope, timing, contractor responsibilities
3. Spend the extra time in getting the word out

Build a Coalition & Network of Partners

CAMERON'S
Farmington, New Hampshire
Since 1924

BRD
BARRON BROTHERS DEVELOPMENT INC.
SAND • GRAVEL • LOAM
BARK MULCH • STONE • COMPOST

UNDERWOOD engineers

AJ Foss
The Signature of Quality Precast

JM DEMOLITION

Water Industries, LLC
Specialists in pumping equipment.

Success requires volunteers and professional working together.

Take Time to Enjoy Your Hard Work


Expect the Unexpected!

Wrap Up

- Lean on your Regional Planning Commission for grant writing, administration, and project management
- Be proactive, creative, and persistent in pursuing diverse funding sources
- Learn from unsuccessful applications and resubmit using reviewer feedback
- Ground-truth cost estimates and refine scopes when needed
- Build a strong local coalition to support implementation, including in-kind contributions.
- Enjoy the journey and be prepared for the unexpected

Questions/Discussion

Steve Landry, Supervisor

Watershed Assistance Section

stephen.c.landry@des.nh.gov

(603) 271-2969

Kyle Pimental, Planner

Strafford Regional Planning Commission

kpimental@straffordrpcnh.gov

(603) 994-3500 ext. 101

Glenn Pogust, Chair

Sutton Board of Selectmen

gpogust@sutton-nh.org

(603) 927-2408

Katie Zink, Project Manager

Watershed Grants Coordinator

katherine.e.zink@des.nh.gov

(603) 271-8861