



2024 WATERSHED ASSISTANCE GRANTS
FULL PROPOSAL
Watershed Management Bureau/Watershed
Assistance Section



RSA/Rule: Voluntary

Submission Deadline - January 12, 2024 at 4:00 pm

Please contact your NHDES project coordinator for assistance with any part of this application

1. PROJECT TITLE

Sunrise Lake Watershed Management Plan Implementation Phase I: Structural BMPs and Development of Regulatory Mechanisms

2. APPLICANT INFORMATION

A. Organization Name: Strafford Regional Planning Commission

B. Project Manager

Project manager's name: Kyle Pimental
Title: Assistant Director
Affiliation: Strafford Regional Planning Commission
Street address: 150 Wakefield Street, Suite 12
City, State, ZIP: Rochester, NH, 03867
Day phone: (603) 994-3500 Email: kpimental@strafford.org

C. Legal Contact (Officer legally authorized to sign agreements)

Project manager's name: Jennifer Czysz
Title: Executive Director
Affiliation: Strafford Regional Planning Commission
Street address: 150 Wakefield Street, Suite 12
City, State, ZIP: Rochester, NH, 03867
Day phone: (603) 994-3500 Email: czysz@strafford.org

Signature of Legal Contact:  Date: 1/11/2024

If an applicant does not have an UEI-SAM number, they must obtain one. UEI-SAM registration can be completed at sam.gov.

D. Unique Entity Identifier (UEI-SAM) Number: EH6DCUZCN8K3

When applicable, the applicant must provide their Executive Compensation Data, including: The names and total compensation of the five most highly compensated officers if the entity in the preceding fiscal year received 80 percent or more of its annual gross revenues in Federal awards; and \$25,000,000 or more in annual gross revenues from Federal awards; and the public does not have access to this information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. §§ 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. See FFATA § 2(b)(1).

Note: Total compensation is the cash and non-cash dollar value earned by an executive during the preceding fiscal year and includes the following: salary and bonus; awards of stock; earnings for services under non-equity incentive plans; change in pension value; and, above-market earnings on deferred compensation which is not tax-qualified.

E. Please check the applicable box:

- By signing this full proposal, I certify that the Executive Compensation Data requirements of the FFATA do **not** apply to the Applicant organization.
- By signing this full proposal, I certify that the Executive Compensation Data requirements of the FFATA apply to the Applicant organization and the Applicant agrees to provide information to NHDES as required by the FFATA.

F. Please check the applicable box:

- The applicant organization will maintain statutory worker's compensation and employee's liability insurance for all employees engaged in the performance of the Project, and comprehensive public liability insurance against all claims of bodily injuries, death or property damage, in amounts not less than \$1,000,000 per occurrence and \$2,000,000 aggregate for bodily injury or death any one incident, and \$500,000 for property damage in any one incident.
- The applicant organization maintains insurance coverage which differs from either of the above alternatives, and the Project Manager or Legal Contact has contacted the NHDES Watershed Assistance Section to discuss alternative arrangements.

3. PROJECT LOCATION

A. City/Town(s): **Middleton, NH**

Does project involve other states? Yes No

B. What water body does it affect? **Sunrise Lake**

[12-digit hydrologic unit code \(HUC\)](#): 010600030601

C. Attach a project location map showing the watershed and relevant project site locations (required).

A project location map is attached.

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D. Small Municipal Separate Storm Sewer System (MS4) Certification:

By signing this full proposal, I certify that the proposed project is not located within a regulated MS4 area.

By signing this full proposal, I acknowledge that the project location is within a regulated MS4 and certify that the actions undertaken through the project do **not** implement requirements of a MS4 Permit, the Multi-Sector General permit, or Construction General Permit. Additionally, the municipality will not claim work completed through this project for credit toward implementation of MS4 requirements.

If at any time, the work being funded pursuant to this grant agreement is required to be implemented by a MS4 permit or is determined to be required to be implemented pursuant to a MS4 permit, the work from that time forward will no longer be eligible for funding under this grant agreement.

4. PROJECT TYPE

A. Include impairment information, if applicable:

Does the project area include impaired waters? Yes No

Does the project address the identified water quality impairment(s)? Yes No

Designated Use(s) impaired: Aquatic Life Integrity (ALI) and Primary Contact Recreation (PCR)

Specific cause(s) of impairment: high levels of chlorophyll-a, phosphorus, and cyanobacteria.

Designated Use impairments and causes of impairments are identified on the *2020/2022, 303(d) List*. If the waterbody is not listed as impaired, describe and attach documentation of the impairment. Assessment documents can be found here: [NHDES 2020/2022 Surface Water Quality Assessment Viewer | NHDES Surface Water Quality Assessment Site \(arcgis.com\)](#)

B. Check the applicable project type(s):

a. Watershed-based plan implementation

b. Implementation of an accepted alternative plan

5. PROJECT NARRATIVE

A. Project Period

Note the general time frame for projects funded in 2024 is September 1, 2024 through December 30, 2027. The duration can vary, and actual start date will be dictated by the U.S. Environmental Protection Agency (EPA), and the New Hampshire Governor and Council approval date.

Anticipated Start Date: *September 1, 2024*

Projected End Date: *December 30, 2027*

B. Executive Summary

In **200 words or less**, provide a general description of the proposed project which would be suitable for a press release. This section should summarize the water quality concerns, stakeholder involvement and how the project will help achieve the desired environmental outcome(s).

Declines in water quality have led to increased cyanobacteria blooms, including the most recent in June 2023 that spurred an increase in public awareness on water quality issues with residents and property owners around the lake, that require the reduction of phosphorus entering the lake from septic systems, stormwater

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runoff, erosion, and other sources. Watershed residents are concerned with the frequency and intensity of cyanobacteria blooms and acknowledge action is needed to reduce phosphorus inputs and thereby protect human health and preserve recreational uses of the lake.

Four structural best management practices (BMPs) are being proposed, including at two of the seven association-owned beaches and a shoreline buffer project with a partner that will be identified during the project. At Hampshire Shores Beach, the proposal is to (1) install a rain garden with educational signage to treat stormwater. At Sunrise Lake Lands Association Beach, the proposal is to (2) replace a culvert underneath Lake Shore Road and (3) develop design and engineered plans to improve drainage and stormwater management. A (4) demonstration shoreline buffer project and associated outreach task will be conducted with assistance from the NHDES SOAK Team. These projects will reduce total phosphorus loading to meet an in-lake concentration of nine micrograms per liter, reduce the frequency of cyanobacteria blooms, and meet water quality standards. The proposed non-structural BMP will be the development of a septic system regulation, as well as funding for additional bacteria sampling at the Lake Lands Association beach.

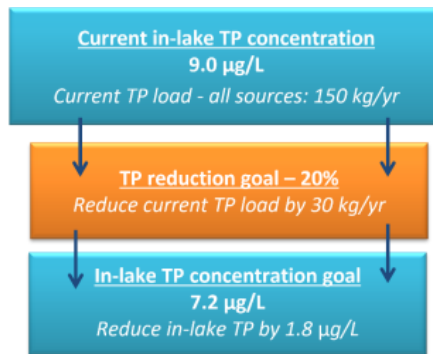
Over the past year, previous engagement with community champions and stakeholders has led to three significant milestones in accomplishing actions identified in the watershed plan, including 1) the Hampshire Shores Association passing a resolution to help protect the Lake (see attachment); 2) the establishment of a Sunrise Lake Watershed Committee (see attachment); and 3) increasing the frequency of VLAP monitoring activities from conducting one test per year to three.

By implementing several actions identified in the management plan, it will ensure the Town continues to make incremental progress with property owners and municipal leaders.

C. Anticipated Environmental Outcome

Provide a concise statement of the measurable environmental result, outcome, or end-state that this project strives to achieve. (Examples: Watershed phosphorus loading will be reduced by 28 lbs./yr. resulting in lake phosphorus levels below 7.2 µg/l; the impaired river segment is in a state of equilibrium based on stream morphology principles; or, ambient fecal coliform bacteria levels will be reduced to enable reopening of a closed shellfish harvest area (18 acres). If the environmental outcome is not expected to be achieved until after the project period, explain how this project will make progress toward the outcome. Goal-setting and results-planning can help water resource managers develop more deliberate project designs and achieve optimal project outcomes.

Sunrise Lake is a relatively shallow, man-made water body in the southeastern New Hampshire town of Middleton. The lake is listed on the state's 303(d) list as impaired for several designated uses including Aquatic Life Integrity (ALI) and Primary Contact Recreation (PCR) due to high levels of chlorophyll-a, phosphorus, and cyanobacteria. The Sunrise Lake Watershed Management plan was developed in 2021 to identify sources of nutrient loading to the lake such that implementation activities could be conducted to reduce phosphorus input and thereby remove the lake from the state's impaired waters list for ALI and PCR. The Sunrise Lake Watershed Management plan established the following water quality goal for total phosphorus (TP) reduction:



The work described in this pre-proposal will result in phosphorus load reductions of approximately 15.5 pounds, thereby attaining roughly 23 percent of the water quality goal for Sunrise Lake. Future phases of implementation are planned and will result in additional load reductions, with the goal of de-listing the lake and restoring designated uses.

Link to Sunrise Lake Watershed Management Plan:

https://strafford.org/uploads/documents/plans/rpc/sunriselakewatershedmanagementplan_20211231.pdf

D. Watershed-Based Plan Implementation

Describe below how this project will implement the a – i elements of a watershed-based plan. If the project will not address a specific element of your plan, please explain briefly in the relevant section.

- a. Identify pollution causes and sources: This was addressed during the development of the Sunrise Lake Watershed Management Plan.
- b. Estimate pollution reductions needed: To meet the management plan’s water quality goal of reducing total phosphorus by 20 percent, actions need to reduce in-lake concentrations by 1.8 micrograms per liter.
- c. Actions needed to reduce pollution: The project proposes to implement four structural controls, including a raingarden at the Hampshire Shores Beach, a culvert replacement at Lake Shore Drive, engineered plans for drainage and stormwater management improvements at the Lake Lands Association Beach, and a residential stormwater management installation through the NHDES SOAK program. Additionally, there will be one non-structural control to develop a septic system health ordinance. All structural and non-structural BMPs were identified in the 2021 Sunrise Lake Watershed Management Plan. The work described in this proposal will result in phosphorus load reductions of approximately 15.5 pounds per year thereby attaining roughly 23 percent of the water quality goal for Sunrise Lake.
- d. Costs and authority: A hired consultant will develop designs, cost-estimates, and permit applications for three of the structural BMPs (the residential system does not need engineering). Municipal staff, volunteers from both the Hampshire Shores and Lake Lands homeowner associations, and the Sunrise Lake Watershed Advisory Committee are identified as partners and will provide in-kind match contributions through labor, equipment, and overall guidance throughout the project.
- e. Outreach and education: As part of the project, several outreach campaigns will be conducted with lakefront homeowners and the Sunrise Lake Watershed Advisory Committee including but not limited to presenting at annual meetings, distributing the survey, attending public meetings to discuss the proposed septic ordinance, and promoting other local events (i.e., beach clean ups, milfoil removal, etc.).
- f. Schedule: The proposed scope of work will implement several tasks identified in the implementation schedule (Table 24) of the Sunrise Lake Watershed Management Plan, including round one of structural BMPs (Task 2.2) through the installation of a raingarden, culvert replacement, and residential stormwater

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management system; non-structural BMPs and outreach (Task 4.0) through the development of a septic ordinance; and monitoring (Task 5.0) through additional lake sampling as part of ongoing VLAP efforts.

g. Milestones: The proposed scope of work will implement several milestones identified in the implementation milestone table (Table 25) of the Sunrise Lake Watershed Management Plan, including structural BMP implementation (raingarden, culvert replacement, and residential stormwater management system), non-structural BMP implementation (septic ordinance), watershed outreach (presenting at annual meetings, distributing a survey, attending public meetings to discuss the proposed septic ordinance, and promoting other local events such as beach clean ups and milfoil removal; and water quality monitoring (additional lake sampling as part of ongoing VLAP efforts).

h. Success indicators and evaluation: Sunrise Lake will continue to participate in VLAP to track water quality goals of reducing total phosphorus and experiencing fewer cyanobacteria blooms.

i. Monitoring plan: The proposal is to conduct additional focused bacteria sampling at the Lake Lands Association Beach to help address concerns about the effluent smell and potential issues upstream from septic systems. Additionally, ongoing VLAP monitoring will continue.

6. STAKEHOLDER COORDINATION, ROLES, AND RESPONSIBILITIES

Describe participation and commitments expected from stakeholders, landowners, other agencies, organizations and municipalities, and identify proposed sources of non-federal, matching funds. Match can be in the form of cash or in-kind contributions (time, labor, easements, materials, equipment, etc.) from your organization and/or project partners. Provide letters of support and commitment from project partners and any non-federal match providers. Letters of commitment from property owners of proposed BMP installation sites are required.

As a result of the four proposed structural BMPs located on association-owned community beaches, members of both Hampshire Shores and Sunrise Lake Lands Association, many of whom were involved in the development of the management plan, will be active participants throughout the project. Responsibilities will include attending project team meetings, participating in site visits, and providing local input during the pre- and post-construction phases of the project. They will be asked to help promote and provide updates on the project during their association meetings and by using the Sunrise Lake Chronicle, which is a quarterly newsletter that provides updates and happenings around the lake.

In addition to the two lake associations, the Middleton Board of Selectmen have submitted a letter of commitment recognizing the economic importance of preserving water quality on the lake. Town staff, including the Road Agent and other members of the highway department will be available to assist with providing labor, equipment, and materials during construction. Additionally, the VLAP Coordinator will conduct at least three monitoring tests (beginning of summer, mid-summer, and end-of-summer). Lastly, if additional in-kind contributions are needed, it may be possible to ask any Qualified Environmental Professional hired as a consultant to bill parts of their scope of work at a lower rate. Lastly, the Sunrise Lake Watershed Advisory Committee has provided a commitment letter that identifies themselves as the lead entity in Town that will be tasked with assisting implementation efforts, tracking in-kind match contributions, and providing overall guidance on the project.

7. PROJECT COST

A. Total Project Costs

Identify the amount of EPA Section 319 Grant funds requested and the non-federal match that will be provided (minimum of 40% of total project cost).

[Grant funds requested] × 0.667 = Required non-federal match amount

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[Grant funds requested] + [match] = Total project cost

Funding	Percentage	Amount
Federal EPA 319 Grant funds requested (≤60%)	60%	\$62,885
Required non-federal match amount (≥40%)	cash	\$0
	in-kind	\$41,944
Total project cost	100%	\$104,829

B. Costs by Budget Category

In the provided Excel Workbook, complete **“Sheet A – Project Costs by Category”** which lists your EPA Section 319 Grant project costs, including match, for each budget category. Please contact your NHDES project coordinator for assistance. **Attach the completed spreadsheet to this full proposal.**

Spreadsheet A is completed and attached.

C. Costs by Task

In the provided Excel Workbook, **review the instructions tab and then complete “Sheet B – Deliverables & Tasks.”** Tasks should be organized by an objective, measure of success, and deliverable. Objectives need to be **“SMART”**. That is **S**pecific, **M**easurable, **A**chievable, **R**elevant to the overall project outcome, and **T**ime-specific. Please contact your NHDES project coordinator for assistance. **Attach the completed spreadsheet to this full proposal.**

Spreadsheet B is completed and attached.

8. QUALITY ASSURANCE

All projects must follow the [New Hampshire Section 319 Nonpoint Source Grant Program Quality Assurance Project Plan \(QAPP\)](#). Projects that include collection, analysis, or manipulation of environmental data, including pollutant load reduction estimates, require an individual QAPP if such data collection and analysis deviates from the NPS Grant Program QAPP. Please consult with NHDES Watershed Assistance Section personnel to clarify your quality assurance requirements.

1. Please check the applicable box:

This project includes collection and analysis of environmental monitoring data.

Sunrise Lake participates in the NHDES VLAP Water Quality Monitoring Program. All data will be collected under VLAP’s existing, approved QAPP.

This project includes modeling or other analysis or manipulation of environmental data.

This project does not include either of the above (skip to Section 9).

2. This project conforms to the *New Hampshire Section 319 Nonpoint Source Grant Program QAPP*.

Yes (development of a Site Specific Project Plan [SSPP] is included as a task in this full proposal.)

SSPP will be developed for pollutant load reduction for structural BMPs.

No (development of an individual project QAPP is included as a task in this full proposal.)

9. OPERATION AND MAINTENANCE

All projects that implement BMPs must develop an operation and maintenance (O&M) plan for each BMP, signed by the grantee or designated BMP owner indicating that they understand the maintenance required and that they intend to provide maintenance for that BMP.

If your project involves BMP construction, what long-term operation and/or maintenance will be required, who is responsible, and how will future operation and maintenance be sustained?

An operations and maintenance plan will be developed for all structural BMPs for all owners identified.

10. SUBMITTAL REQUIREMENTS

Submit the Watershed Assistance Grants Full Proposal and all attachments, via email in Microsoft Word or PDF file formats to:
andrea.l.bejtlich@des.nh.gov.

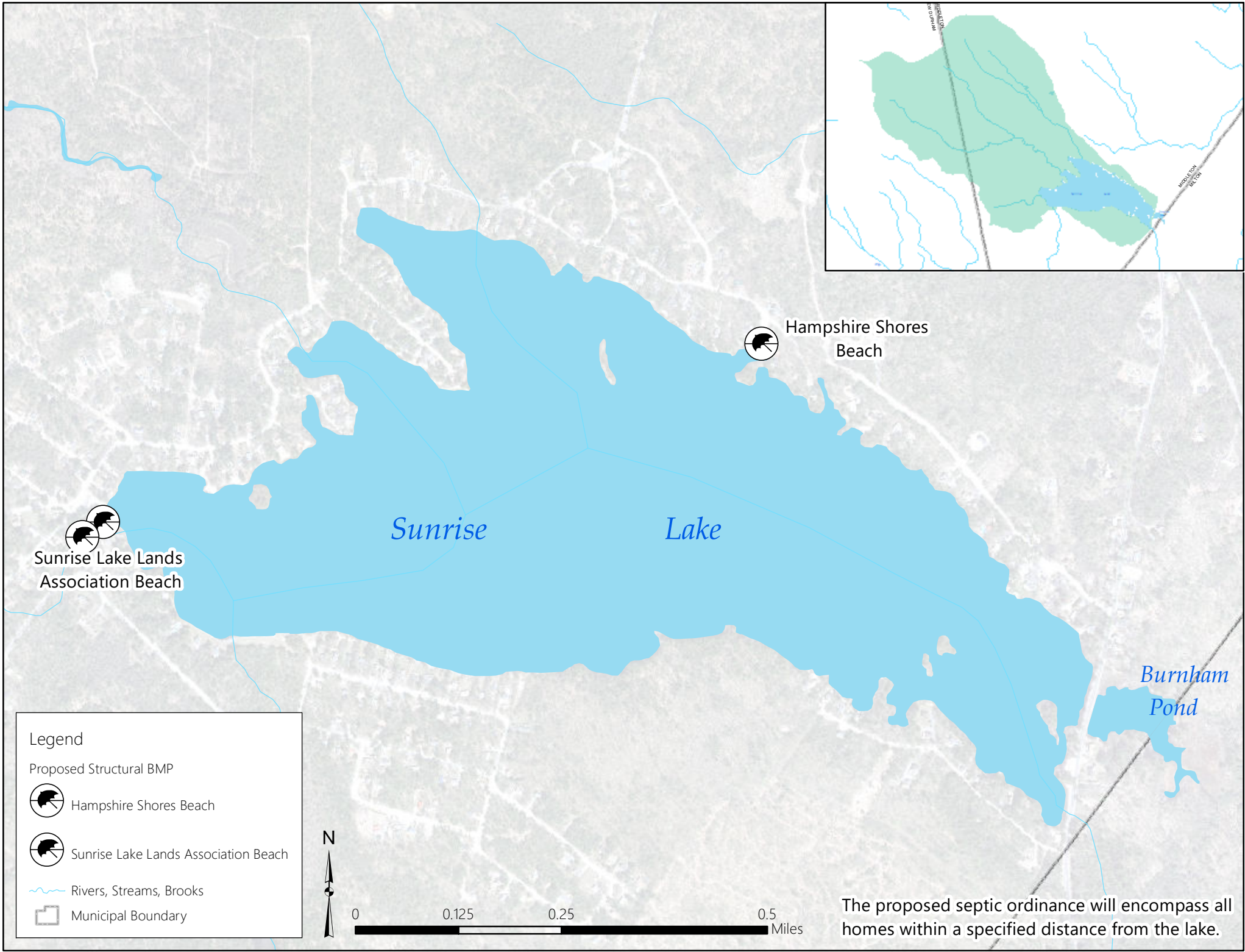
If you have difficulty e-mailing attachments, such as maps and photos, please contact Andrea Bejtlich to make alternate arrangements.

SUBMITTAL DEADLINE

January 12, 2024
4:00 pm

Full Proposal Checklist - Your Full Proposal package should include:

- The completed Full Proposal, please be sure to use spell check and proofread your proposal.
- The completed Costs by Category Budget (spreadsheet A) and Project Budget by Objective, Deliverable, and Task (spreadsheet B), all budgets should be checked that they add up correctly and are accurate.
- A site map.
- Letters of approval from BMP construction site owners (if applicable).
- Letters of commitment from match providers.
- Optional: additional letters of support, photos, or water quality data.



Sunrise Lake

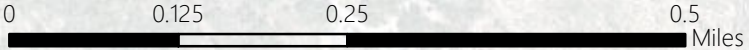
Burnham Pond

Sunrise Lake Lands Association Beach

Hampshire Shores Beach

Legend

- Proposed Structural BMP
- Hampshire Shores Beach
- Sunrise Lake Lands Association Beach
- Rivers, Streams, Brooks
- Municipal Boundary



The proposed septic ordinance will encompass all homes within a specified distance from the lake.



Town of Middleton

182 Kings Highway, Middleton, New Hampshire 03887

CONSERVATION COMMISSION
Sunrise Lake Watershed Advisory Committee

January 8, 2024

Sally Soule
NH Department of Environmental Services
Watershed Assistance Section
29 HAZEN Drive
PO Box 95
Concord, NH 03302-0095


Re: Sunrise Lake-2023-2024 Watershed Assistant Grant

Dear Ms.Soule:

In the summer of 2023, a group of Middleton residents gathered to discuss the current condition of Sunrise Lake and its watershed and how to support and institute the recommendations put forth by the Sunrise Lake Watershed Management Plan. The discussion focused on the opportunity of a 2023-24 Watershed Assistant Grant being submitted to support the Sunrise Lake Watershed Management Plan and how the community could implement the plan.

In August of 2023, the Middleton Conservation Commission formed the Sunrise Lake Watershed Advisory Committee to educate and involve the lakeshore residents and the larger Middleton community on water quality issues facing the Lake and steps to address them. Furthermore, the Committee will be charged to further implement the Sunrise Lake Management Plan by urging lakeshore and watershed property owners to take preventive steps, seek local and state agencies to make shoreline improvements in stormwater control, and consider ordinances and local laws that will further protect Sunrise Lake.

Subsequently, the newly formed sub-committee met in the fall of 2023 and presented an agenda for the upcoming months. Upon receiving the opportunity to file a full proposal for the Watershed Assistant Grant, the Sunrise Lake Watershed Advisory Committee, along with support from the Conservation Commission, Town Officials, and residents, is committed to ensuring that in-kind needs are met. The Sub-committee and the Strafford Regional Planning Commission will also take the lead, managing the grant's implementation and the activities needed to fulfill its requirements.



The Sub-committee is looking forward to the grant being approved and to begin working on improving Sunrise Lake's watershed and the community as a whole.

Sincerely:

J. A. Mullen, Jr.

John A. Mullen, Jr.
Chair
Sunrise Lake Watershed Advisory Committee
Middleton Conservation Commission

Cc: Dave Miller, Vice Chair-SLWAC, Joni van Gelder, Clerk-SLWAC, Middleton Conservation Commission, Middleton Board of Selectmen



Town of Middleton

182 Kings Highway, Middleton, New Hampshire 03887

August 28, 2023

Sally Soule
NH Department of Environmental Services
Watershed Assistance Section
29 Hazen Drive
PO Box 95
Concord, NH 03302-0095

RE: Letter of Commitment Seeking Funding through the NHDES Watershed Assistance Section 319 Grant Program to Implement Actions in the Sunrise Lake Watershed Management Plan.

Dear Ms. Soule:

Middleton is a rural town that values the character and small hometown feel and the natural resources it provides, especially Sunrise Lake. The lake offers excellent boating, fishing, and swimming opportunities for residents and visitors to Sunrise Lake Town Beach. There are also seven association-owned community beaches and several small private beaches along the shores of the lake.

We recognize that the lake is an essential economic driver. The Town consists predominantly of residential uses, and specifically of single-family homes. Other than Middleton Building Supply, DiPrizio Pine Sales, and DiPrizio Truck Sales, no major commercial employment centers help contribute to the tax base. As such, we rely heavily on lakefront property taxes to help offset the lack of commercial development. We understand that even a perceived decline in water quality on our lake will hurt property values, which emphasizes the need and our commitment to ensuring our long-term goals of improving water quality over the next ten years.

Last year, we were unsuccessful in obtaining funding from this program to implement our watershed plan developed in 2021; however, NHDES reviewers provided significant feedback on strengthening future proposals. Since then, community leaders and stakeholders have achieved several important milestones, including passing a resolution at the Hampshire Shores Association to help protect the lake; establishing a Sunrise Lake Watershed Committee; increasing the frequency of monitoring activities; and exploring the development of septic system regulations. These efforts showcase the Town's commitment to implementing our plan and building community capacity.

This past June, another cyanobacteria bloom on the lake, the first reported since 2018, resulted in a lot of public discussion on water quality issues and reinforced the need to progress on actions identified in the management plan. The Town's governing body, the Board of Selectmen, fully supports this proposal and commits to providing materials, equipment, and labor where possible to make this project successful. We also appreciate the ongoing technical assistance offered by SRPC and NHDES.

We hope that you will review this proposal and agree that it is a project worthy of the funding that is being requested. Please let us know if there is anything else that you need from us as you review this proposal.

Sincerely,

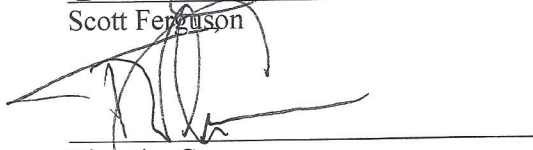
Middleton Board of Selectmen



Roxanne Tufts-Keegan




Scott Ferguson



Timothy Cremmen

Michael Green



Tracy Donovan-Laviolette

September 6, 2023

Sally Soules NH DES
222 International Drive, Suite 175
Portsmouth, NH 03801

RE: Letter of Support for Support for Storm Water Runoff Projects Propose by Sunrise Lake Water Shed Management Plan for 319 Watershed Assistant Grant.

Dear Ms. Soules:

In 2020 the Strafford Regional Planning Commission in conjunction with the NH DES embarked on developing a Sunrise Lake Watershed Management Plan. The Plan was completed, and implementation and recommendations began in 2022. For 2023 we are supporting two projects for the Lake Lands Association Beach.

1. The First project proposed would be to replace a culvert that lies underneath Lake Shore Road across the street from the Lake Lands Association Beach. The plastic culvert under the road connects to an old metal corrugated pipe, which winds its way underground from the connected culvert to about two-thirds of the way down an open ditch that eventually empties into the lake. Under inspection by the Sunrise Lake Watershed Management Plan team concluded that the failing metal culvert is directing water underneath the beach sand during heavy rain events, causing sand erosion into the lake. The proposed project is a complete redesign of the system to eliminate the flow of water underneath the beach, as well as manage the water flow into the lake and will result in a total estimated TP reduction of 8.1 lbs./yr. The proposed BMPs will help to prevent further erosion and the transport of sand and gravel into the lake and improve water quality.
2. The second project proposed would be to repair compromised drainage infrastructure and improve stormwater management adjacent to the Lake Lands Association Beach. The proposed project will result in a total estimated pollutant load reduction of 4.0 tons/yr of sediment and 3.4 lbs/yr of total phosphorus and will help to address ongoing erosion issues at the beach area during storm events.

This letter is written in support of having the Town of Middleton and Strafford Regional Planning Commission to proceed with the processing and managing a 319 Watershed Assistant Grant for the proposed stormwater runoff projects for Sunrise Lake.

If funded, this grant request will bring a start to reaching a goal improving the water and habitat quality of Sunrise Lake. These two projects were one of the first recommendations made by the Sunrise Lake Watershed Management Plan to address and improve the health and wellbeing of the lake.

Sincerely,



Christine Bartlett President
Lake Lands Association

Sally Soules
NH DES
222 International Drive, Suite 175
Portsmouth, NH 03801

RE: Letter of Support for Support for Storm Water Runoff Projects Proposed by Sunrise Lake Water Shed Management Plan for 319 Watershed Assistant Grant.

Dear Ms. Soules:

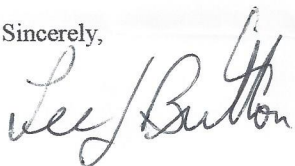
In 2020, the Strafford Regional Planning Commission and the NH DES embarked on developing a Sunrise Lake Watershed Management Plan. The Plan was completed, and implementation and recommendations began in 2022. One of the first recommended projects was:

The project would involve the construction of a rain garden constructed at the turnaround at the end of Shore Drive in front of Hampshire Shores Beach. It will collect stormwater runoff from Shore Drive and minimize flow into the beach and the lake with a total estimated TP reduction of 0.6 lbs./yr. The Hampshire Shores rain garden will have a kiosk for signage that will explain its purpose and promote other residential stormwater management opportunities identified in the Plan, such as infiltration trenches, erosion control, vegetative plantings, and shoreline stabilization methods (e.g., similar educational signage at Wagon Hill Farm).

This letter is written to support having the Strafford Regional Planning Commission and the Town of Middleton proceed with the processing and managing of a 319 Grant for proposed stormwater runoff projects for Sunrise Lake. Middleton, NH, mentioned above.

If funded, this grant request will bring a start to reaching the goal of improving the water and habitat quality of Sunrise Lake. These two projects were one of the first recommendations made by the Sunrise Lake Watershed Management Plan to address and improve the health and well-being of the lake.

Sincerely,

 8/27/2027

Lee Britton
President
Hampshire Shores Association

Table 24: Implementation Schedule

Implementation Task	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
1.0 Finalize Sunrise Lake plan and distribute	█										
2.0 Implement structural BMPS											
2.1 BMP implementation assessment & planning	█										
2.2 Round 1 BMP implementation		█	█								
2.3 Continue planning and implementing BMPs				█	█	█	█	█	█	█	█
2.4 BMP operation and maintenance tracking		█	█	█	█	█	█	█	█	█	█
4.0 Implement non-structural BMPs, septic system projects, and outreach		█	█	█	█	█	█	█	█	█	█
5.0 Monitor water quality		█	█	█	█	█	█	█	█	█	█
6.0 Review progress and report to project partners		█			█			█			█

7.2 Milestones

A description of interim, measurable milestones for determining if NPS management measures are being implemented, is presented in Table 25.

Table 25: Sunrise Lake Watershed Implementation Milestones

Management Measure	Milestones
Watershed plan development	<ul style="list-style-type: none"> • The Sunrise Lake Watershed Management Plan is complete and publicly available • Efforts are underway to conduct outreach for the plan and build capacity for implementation
Structural BMP implementation	<ul style="list-style-type: none"> • Number of BMPs implemented and pollutant load reduction estimates documented • Operation and maintenance plans developed and tracked
Non-structural BMP implementation	<ul style="list-style-type: none"> • Annual metrics tracked and documented • Pounds per year pollutant load reduction tracked and credited for non-structural practices
Septic systems	<ul style="list-style-type: none"> • Number of systems upgraded • Pollutant load reduction estimates documented
Watershed outreach	<ul style="list-style-type: none"> • Number of outreach materials and events produced • Number of participants in outreach events tracked
Water quality monitoring	<ul style="list-style-type: none"> • Monitoring conducted annually and reports/data evaluated to assess progress toward attaining water quality goals
Implementation tracking	<ul style="list-style-type: none"> • Plan implementation progress tracked and reported to stakeholders every two years • Adaptive management approaches developed, if needed