

How To Deploy Green Stormwater Infrastructure in New Hampshire

April 23, 2026 at 1 pm ET



How To Deploy Green Stormwater Infrastructure in New Ham

April 23, 2026 at 1 pm ET

Q&A

You ask:13:05

How do I use these awesome tools?

Joshua Jones answered:13:06

You are already using one of the most awesome tools. We'll discuss the rest right away.

Please input your question

☐ Send Anonymously

Send

Certificate of Completion

This session has **NOT** been submitted for pre-approval of Continuing Education Credits, but eligible attendees will receive a certificate of attendance for their personal record.

To receive a certificate:

- You must attend the entire session
- You must register and attend using your real name and unique email address - group viewing credit will not be acceptable
- You must participate in polls
- Certificates will be sent via email within 30 days

If you have questions or need assistance, please contact smallsystems@syr.edu.

About EFCN

The **Environmental Finance Center Network (EFCN)** is a university- and non-profit-based organization creating innovative solutions to the difficult how-to-pay issues of environmental protection and water infrastructure.

The EFCN works collectively and as individual centers to address these issues across the entire U.S, including the 5 territories and the Navajo Nation. The EFCN aims to assist public and private sectors through training, direct professional assistance, production of durable resources, and innovative policy ideas.





WaterNow works to advance transformation in the urban water sector to accelerate the widespread adoption of resilient and environmentally sustainable strategies.

We do this as a national network for local water leaders and decision makers, empowering them with the technical assistance, resources, and tools they need to implement innovative One Water drinking water, stormwater, and wastewater solutions in their communities.



Today's Agenda

- Welcome & Introductions
- Meet the Cold Climate Stormwater Center for Excellence
- Getting Technical Assistance from the New England Environmental Finance Center
- Overview of RST and Other Technical Assistance
- Moderated Q&A
- Wrap up & 1:1 Consultations

Today's Speakers



Laura Collins
Senior Program Manager,
Water Infrastructure
New England EFC



Andy Erickson
Co-Director
Cold Climate
Stormwater Center



James Houle
Co-Director
Cold Climate
Stormwater Center



Caroline Koch
Water Policy Director
WaterNow

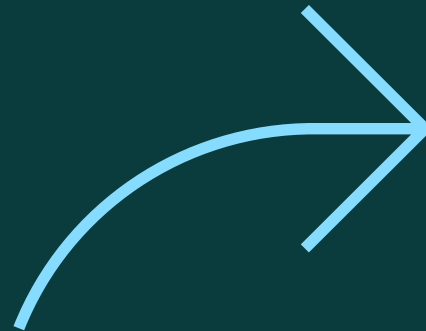
Time for a Poll!

Participate with Mentimeter

Go to: menti.com

Enter Code: 3933 0261

Or scan the QR code





Loading...



Loading...



Loading...

Meet the Cold Climate Stormwater Center for Excellence

Andy Erickson
Co-Director



eric0706@umn.edu

James Houle
Co-Director



james.houle@unh.edu





Cold Climate Stormwater Center of Excellence

University of New Hampshire – University of Minnesota - National Municipal Stormwater Alliance

Cold Climate Stormwater Center of Excellence

Andy Erickson, Research Manager, St. Anthony Falls Lab, UMN

Jamie Houle, Director for the UNH Stormwater Center

April 23, 2026



Why Stormwater Centers of Excellence?



- ❄ There is a large gap between funding needed and funding available to address stormwater and NPS issues country-wide.
- ❄ The economic gap can be better bridged with improved technology.
- ❄ Innovations can significantly reduce costs through cooperative federalism.



Why Stormwater Centers of Excellence?

- ❄ The 2022 CWNS identified over \$115 Billion in SWM needs
- ❄ 385% increase over 2012 and does not include any I&M
- ❄ This represents approximately 18% of the total clean water infrastructure needs
- ❄ Less than 3% of the CWSRF assistances has supported SW

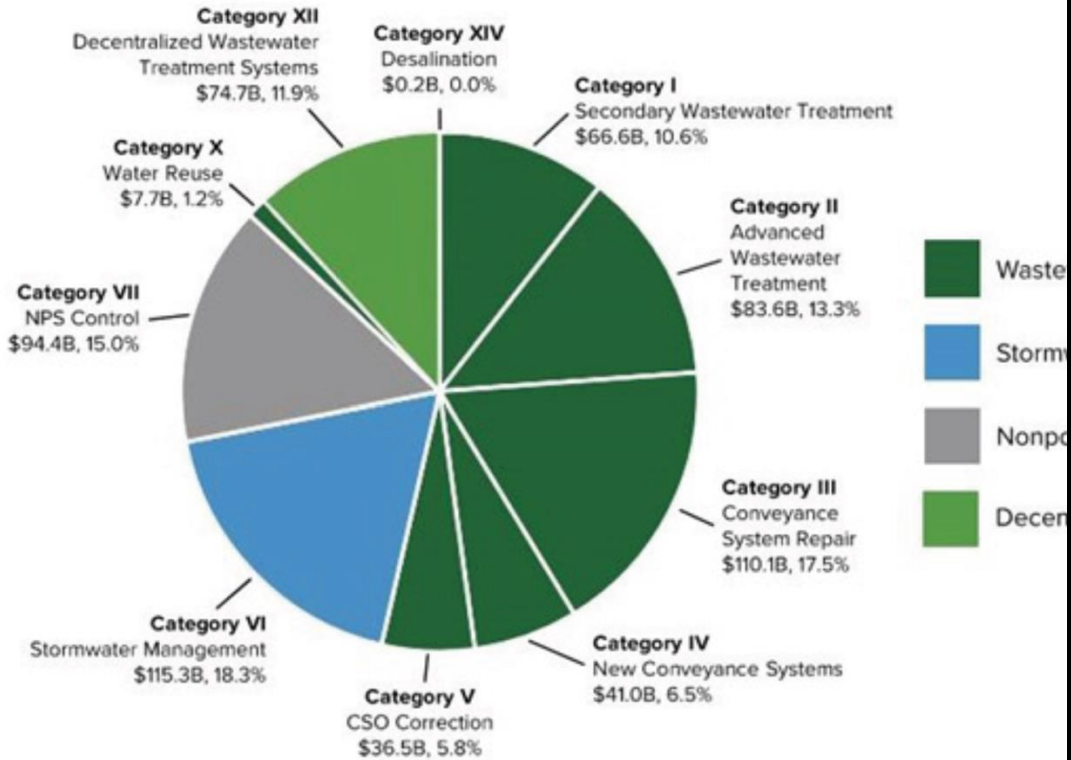


Figure 1. 2022 CWNS Total Reported Needs by Category (January 2022 Dollars in Billions)



Why Stormwater Centers of Excellence?



- ❄️ SCoEs promote market-based solutions through cooperative federalism
- ❄️ SCoEs create national leadership to guide federal, state, and local stormwater control and policy making
- ❄️ SCoEs guide communities in selecting appropriate technologies for multi-beneficial stormwater priorities.



WEF MS4 Needs Assessment Survey - 2024



Highlights on 2024 Survey

Top Technical Assistance Needs

- Funding & financing (73%)
- Asset management (52%)
- Green infrastructure (44%)
- Compliance support (42%)
- Climate resilience (39%)

Funding and Budget

- ❄ Median annual stormwater budget: \$1.2M; median funding gap: \$500K.
- ❄ 62.3% defer expenditures due to lack of funds.
- ❄ National funding gap extrapolated: \$7–\$10B annually.
- ❄ Smaller MS4s (<10,000 population) have the highest proportional gaps

Resilience Planning

- 35% have a resilience plan, 40% intend to develop, 25% unsure.
- Design standard updates: rainfall depths (45%), IDF curves (38%), sizing rules (50%).
- Top barrier: Lack of funding (60%), followed by staffing shortages and insufficient climate data.

Federal Program Perception

- 34% believe current program is sufficient; 32% disagree; 34% unsure.
- Criticisms: No dedicated funding, rigid regulations, limited support for small communities.
- Recommendations: Dedicated federal funding, regulatory flexibility, technical assistance, climate resilience integration.



Cold Climate Stormwater Center of Excellence

University of New Hampshire – University of Minnesota - National Municipal Stormwater Alliance

- ❄ Stormwater runoff has **significant impacts** (volume & pollutants)
- ❄ Cold climates present **unique challenges** for stormwater managers
- ❄ These challenges are addressed by a *Cold Climate Stormwater Center of Excellence (CCSCoE)*, co-led by
 - University of New Hampshire (UNH)
 - University of Minnesota (UMN)
 - National Municipal Stormwater Alliance (NMSA)





The Team

Co-Directors:

- ❄️ Jamie Houle, University of New Hampshire
- ❄️ Andy Erickson, University of Minnesota

Core Staff:

- ❄️ Tom Ballestero, University of New Hampshire
- ❄️ John Bilotta, University of Minnesota
- ❄️ Seth Brown, National Municipal Stormwater Alliance
- ❄️ John Chapman, University of Minnesota
- ❄️ Diana Dalbotten, University of Minnesota
- ❄️ Rebecca Forman, University of Minnesota
- ❄️ John Gulliver, University of Minnesota



Jamie
Houle
U of NH



Andy Erickson
U of MN



Tom Ballestero
U of NH



John Bilotta
U of MN



Seth Brown
NMSA



John Chapman
U of MN



Diana Dalbotten
U of MN



Rebecca Forman
U of MN



John Gulliver
U of MN



CCSCoE Objectives

- ❄ The CCSCoE has three main initiatives:
 - ❄ Research
 - ❄ Technical Assistance
 - ❄ Collaboration





Research Areas

❄ Bioretention media:

- excessive release of **phosphate**
- exacerbated by **road salt**
- investigate **innovative media**

❄ Rapid Response Research

- Technical Advisory Committee (TAC) will help **identify and prioritize research needs**

❄ Salt training:

- Create an **inventory** of Salt Training Programs
- **Quantify success** of these education and certification programs.
- **Learn** from and **translate to** other locations



Cold Climate Stormwater Center of Excellence

University of New Hampshire – University of Minnesota - National Municipal Stormwater Alliance

Hybrid **Seminars**

Minimum Control Measure **Guidelines** and **Templates**

State Stormwater **Manuals** and **Technical Guidance**

Workshops, Training, and Certification

Online learning modules

Scholarships

Case studies

Inventory and catalog **stormwater needs** of communities

CCSCoE Technical Assistance





Cold Climate Stormwater Center of Excellence

University of New Hampshire – University of Minnesota - National Municipal Stormwater Alliance

Help us **identify and prioritize** cold climate
stormwater **research needs**,

Help us bring **Technical Assistance** to cold climate
communities,

translating research results,
connecting us with local trainers,
train the communities.

Technical Advisory Committee (TAC)







Collaboration activities

- ❄️ **National Municipal Stormwater Alliance (NMSA):** cold climate-related programmatic, financial, and technical research
- ❄️ **Technical Advisory Committee (TAC)** is how we coordinate across other cold climate states
- ❄️ **Other SCoEs** – The four centers meet quarterly:
 - ❄️ Cold Climate SCoE (UNH & UMN & NMSA)
 - ❄️ Southeast Coastal SCoE (Center for Watershed Protection + partners)
 - ❄️ Great Plains SCoE (University of Oklahoma + partners)
 - ❄️ Arid Southwest SCoE (Desert Research Institute (Nevada) + SCCWRP + partners)
- ❄️ **Tribal College Program:** developing an innovative model for college-to-high school student mentorship and training in water resources and stormwater
- ❄️ **Symposia** Host an annual symposium to showcase and share the work
- ❄️ **Other Research Centers:** e.g., Minneapolis-St. Paul Metropolitan Area Urban Long Term Ecological Research program (MSP Urban LTER)
- ❄️ **Conferences** (CWP Conference Charlotte, NC April 14-16, 2026; StormCon Minneapolis, MN August 25-27, 2026)



Summary

- ❄ Cold climates present **unique challenges** for stormwater managers
- ❄ The *Cold Climate Stormwater Center of Excellence (CCSCoE)* will address these challenges
- ❄ **Stay Tuned** for opportunities to become connected!



Cold Climate Stormwater Center of Excellence

University of New Hampshire – University of Minnesota - National Municipal Stormwater Alliance

Thanks for your attention!

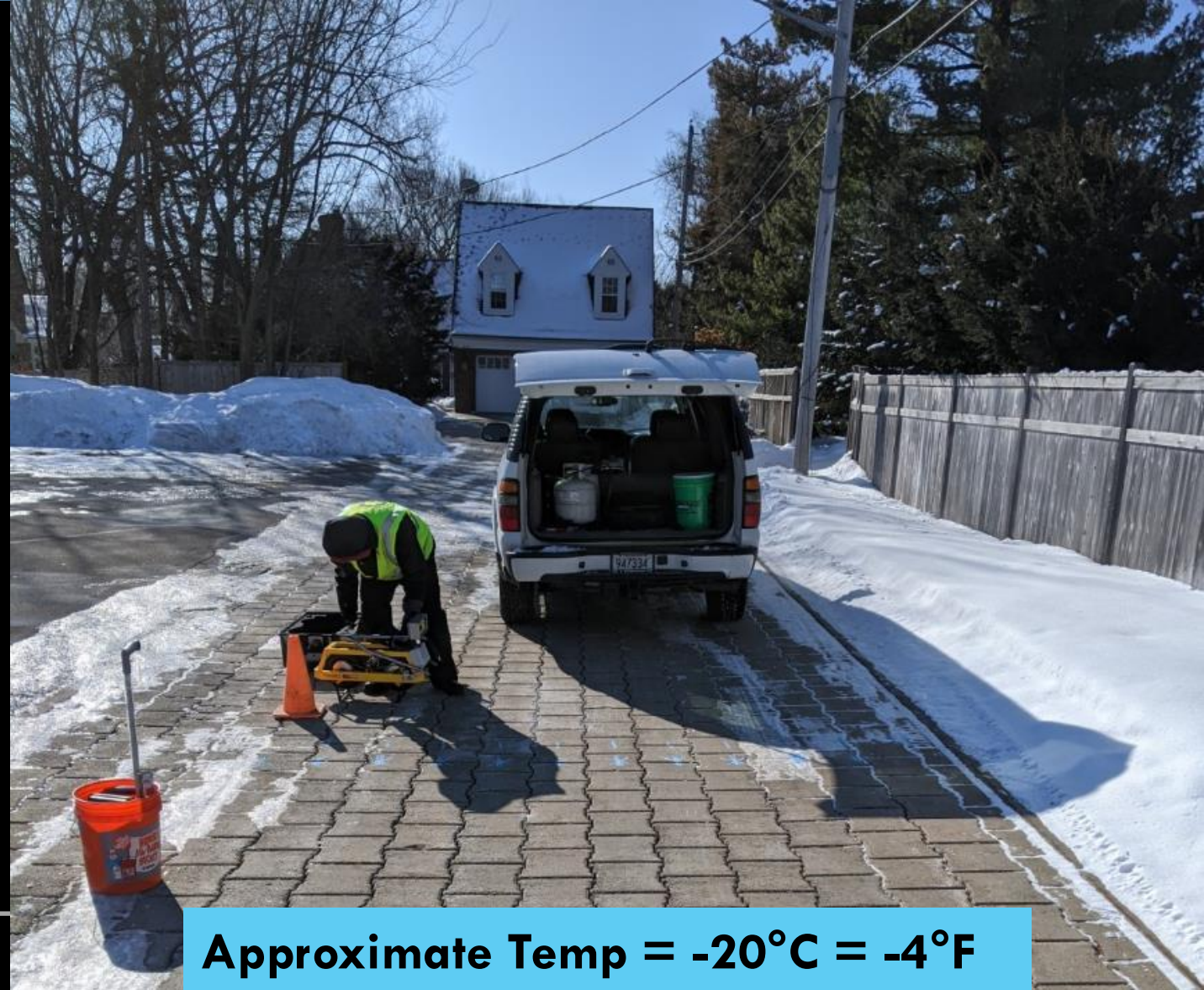
Andy Erickson

eric0706@umn.edu

James Houle

james.houle@unh.edu

<https://ccscoe.umn.edu/>



Approximate Temp = -20°C = -4°F



Audience Q&A

Getting Technical Assistance from the New England EFC

Laura Collins
Senior Program Manager



laura.collins@maine.edu



Accessing Stormwater Funding: NH CWSRF

Funding for stormwater planning, design,
and construction

Stormwater & Nonpoint Source Categories

Asset Management – NEW technical
assistance program at no cost

Planning – many eligible projects fall into
this category

Infrastructure - implementation of a Plan,
which includes or promotes a water quality
benefit

Applicant Eligibility

- Municipalities and other public entities
- County conservation districts
- Nonprofits
- Other eligible public/private entities depending on project type



Accessing Stormwater Funding: NH CWSRF

Category	Project Examples	Principal Forgiveness
Planning	Risk/Vulnerability Assessments Dam Removal Feasibility Studies River Corridor Management Plans Stormwater BMP Feasibility Study	Up to \$100,000 principal forgiveness Loan amounts can be greater!
Infrastructure	Source Water Protection Plan Watershed Plan MS4 Plan Final Design Construction	Determined annually and after all projects are ranked (available in latest IUP)

2026 Clean Water State Revolving Fund (CWSRF) Timeline



2026 Clean Water State Revolving Fund (CWSRF) Timeline



Application Process

1

Submit the pre-application

Projects first enter the annual ranking cycle through the pre-application process.

2

Project is ranked on the PPL / IUP

NHDES ranks projects and rolls them into the Project Priority List and Intended Use Plan.

3

Submit the full loan application

To obtain funding for a project on the PPL, applicants file a loan application and secure governing-body authorization.

4

For construction: start environmental review early

Stormwater infrastructure guidance says applicants should submit the Water Infrastructure Environmental Review Form up to six months before authorization to bid.

Pre-Application & Ranking Criteria Helpful Hints

Fill out the application fully.

Reach out to the stormwater or wastewater program manager contact for assistance.

Do not wait until the last minute to fill out the pre-application.

Receive Authority to Borrow early
Lead with the water quality need

Stormwater Funding Paths for New Hampshire



CORE NH



Section 319

Implementation in priority watersheds



Section 604(b)

Water quality and MS4 planning



CWSRF + OSG

Large planning, design and construction

COASTAL & SOUND



NH Coastal Resilience

Coastal planning, design and resilience



Long Island Sound Futures Fund

NH fit for nutrient projects in the LIS watershed

NFWF

National Coastal Resilience Fund

Nature-based coastal resilience

RESILIENCE & OTHER FITS



FEMA

FEMA BRIC / HMA

Flood mitigation and stormwater resilience



Source Water Protection

Best when runoff threatens drinking water sources

CDFA

NH CDBG

Public facilities / urgent-need angle

We build community capacity to
advance projects to funding, financing,
and implementation

Supported by the U.S. Environmental Protection Agency for 25 years

Stormwater



Resilience



Watershed
Management



Water
Infrastructure



Sustainable
Operating
Practices





We help municipalities, water utilities, and tribes access funding for drinking water, wastewater, and stormwater systems.

Who We Are

A **regional network of technical assistance providers**. Partners include:



+ NEEFC Consultant Pool

How We Work

Provide **customized technical, financial, and managerial solutions** to local water challenges

Collaborate to **advance projects to funding and implementation**

Our Priorities

Reduce barriers faced by **capacity-constrained communities**

Address **pressing water challenges**

Ensure all water systems have **access to affordable financing**

Targeted Assistance at Every Step



Community Engagement & Partnerships	Outreach, engagement & communications Partnership development	Education for boards & elected officials Regionalization
Planning & Assessment	Project identification & prioritization Condition assessment Asset management	Resilience assessment & planning Utility management & succession planning Environmental review
Project Development	Identify pre-development funding Review Preliminary Engineering Reports	Advance readiness to proceed milestones Procurement & contracting
Funding & Financial Management	Identify funding options Financial assessment User rate analysis	Revenue & expense projections Income surveying Funding application support
Implementation Support	Manage project schedule & budget Compliance support	Funding requisitions Grant/loan reporting

NEWIN Stormwater Projects: Newmarket, NH

Need/Challenge

In 2024, the town of Newmarket identified a stormwater improvement project to address drainage concerns and mitigate stormwater flooding in Great Bay. The town submitted a pre-application for a NH CWSRF loan, but it did not pass town vote initially. The Town reapplied in 2025 and needs a 2/3 town vote to receive authority to borrow.

Funding Details

Initial authorization for a \$1.4M stormwater infrastructure loan (CWSRF) with 25% forgiveness in 2024. Reapplied in 2025, with updated 15% forgiveness.

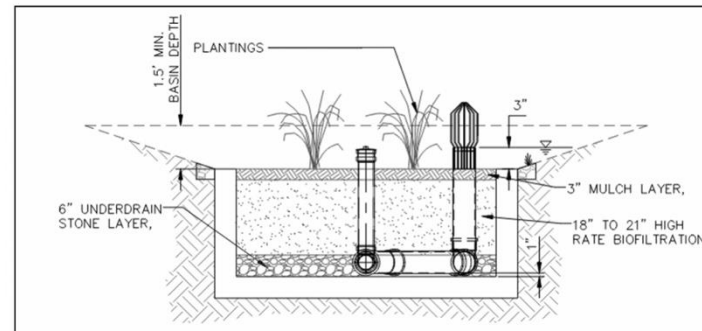
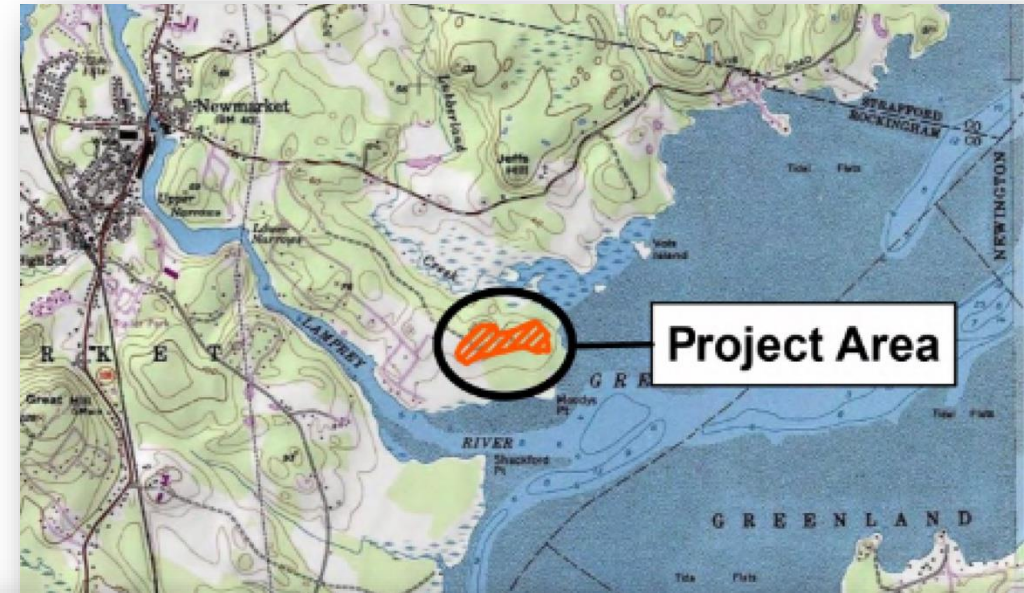


Figure 9: Enhanced Bio-Filtration w/ ISR Cross-Section and photo

NEWIN Stormwater Projects: Newmarket, NH



2026 WARRANT ARTICLE FACT SHEET

Cushing Road & Lubberland Drive Stormwater Improvements

Introduction

Newmarket voters will decide whether or not to authorize borrowing up to **\$1,440,000** for stormwater management improvements along Cushing Road and Lubberland Drive. Funding could come through bonds or notes, with eligibility for State Revolving Fund (SRF) loans and potential federal or state grants to reduce local costs.

Key Financial Information

- Borrowing reduces impacts to operating budget and **avoids delays to other planned projects**
- Newmarket is eligible for a **low-interest SRF loan**, with up to **\$216,000 in principal forgiveness**
- Estimated **tax rate impact: \$0.08** in first year, decreasing annually
- Unanimously recommended** by Town Council and Municipal Budget Committee



Why Focus on Stormwater at Moody Point

Newmarket continues to address non-point source pollution affecting the Lamprey River, in line with state and federal regulations and guidelines. Moody Point is a priority because:

- It has a high percentage of impervious surfaces, including parking lots
- It has storm drain outfalls that discharge directly to Great Bay
- These conditions increase runoff and pollutant loading directly to the river

Project Components

- Installation of **four enhanced biofiltration units** with interlocking stone
- Road reconstruction** to direct runoff into treatment systems
- Use of **engineered soils, native plants, and natural filtration processes**
- Low-maintenance systems designed to blend into the neighborhood

Schanda Park Stormwater Planning Project



Assistance Provided

NEWIN crafted a communications strategy for the town to educate voters on the project and receive approval.

Focused on aligning this project with other environmental issues on the ballot and the health of Great Bay beyond this neighborhood.

Utilized local experts, advocacy groups, and community activation to increase project support

Outcomes

Warrant article passed in early 2026 with 76% approval from the town

Newmarket can now move forward with critical stormwater improvements after receiving authority to borrow

NEWIN Stormwater Projects: Wilton, NH



Need/Challenge

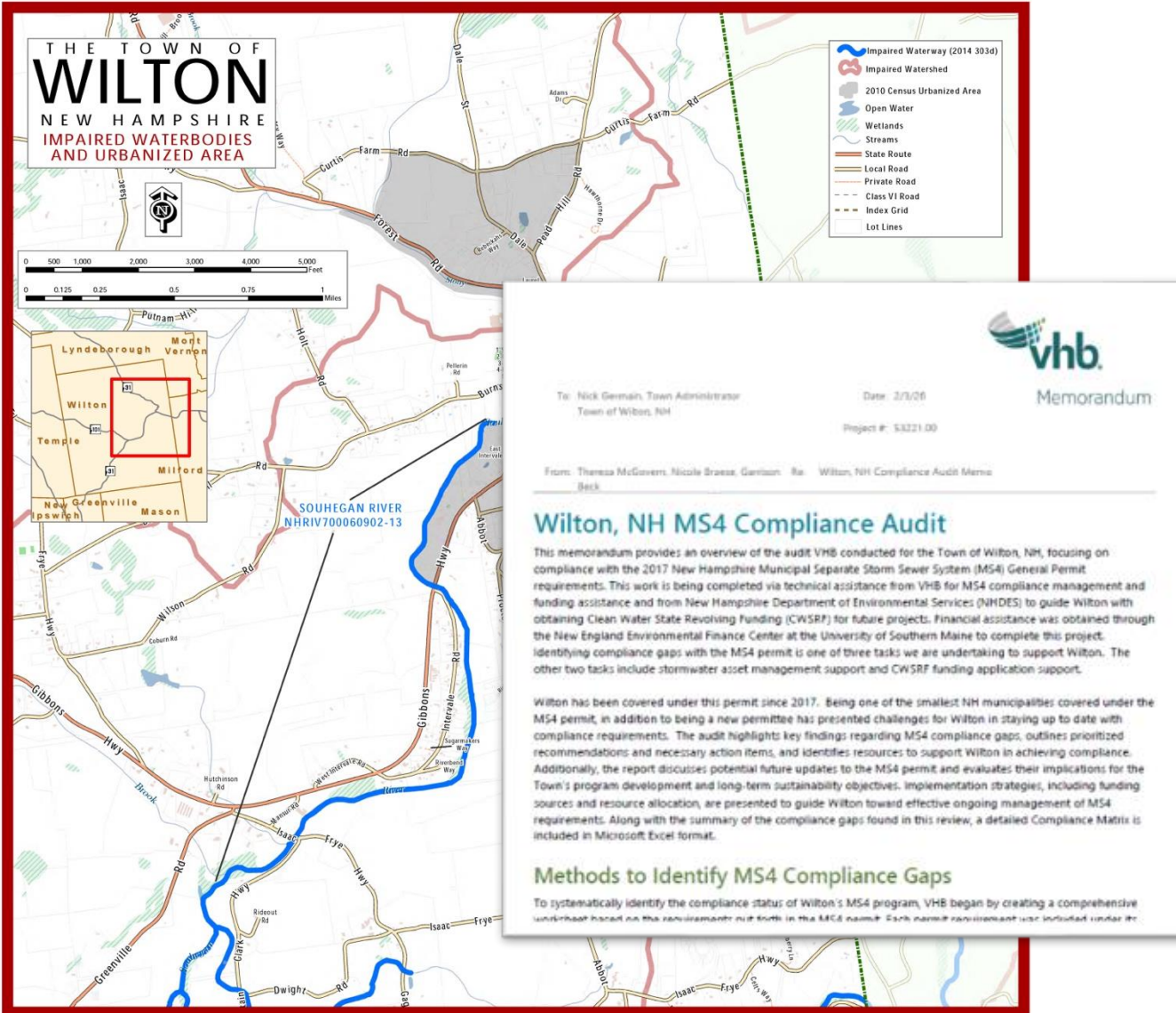
Smallest NH MS4 with limited staff capacity, turnover, and key gaps in mapping, catchment delineation, sampling, and compliance tracking.

Funding Details

Town is targeting 2026 NH CWSRF stormwater planning and/or asset management support. DES encouraged Wilton to apply to both programs to improve its chances of getting help.



NEWIN Stormwater Projects: Wilton, NH



Assistance Provided

Brought in VHB through consultant pool
Reviewed MS4 program and existing data
Created draft compliance matrix
Coordinated with NHDES on next-step eligibility for CWSRF application

Outcomes

Clearer MS4 compliance roadmap
Better stormwater data management
Stronger CWSRF positioning for 2026

Get Involved

Request Assistance

neefc.org/water-infrastructure



Laura Collins, Senior Program Manager

Laura.collins@maine.edu

207.780.5717

Matt Duff, Water Infrastructure Specialist

matthew.duff@maine.edu

207.331.4660



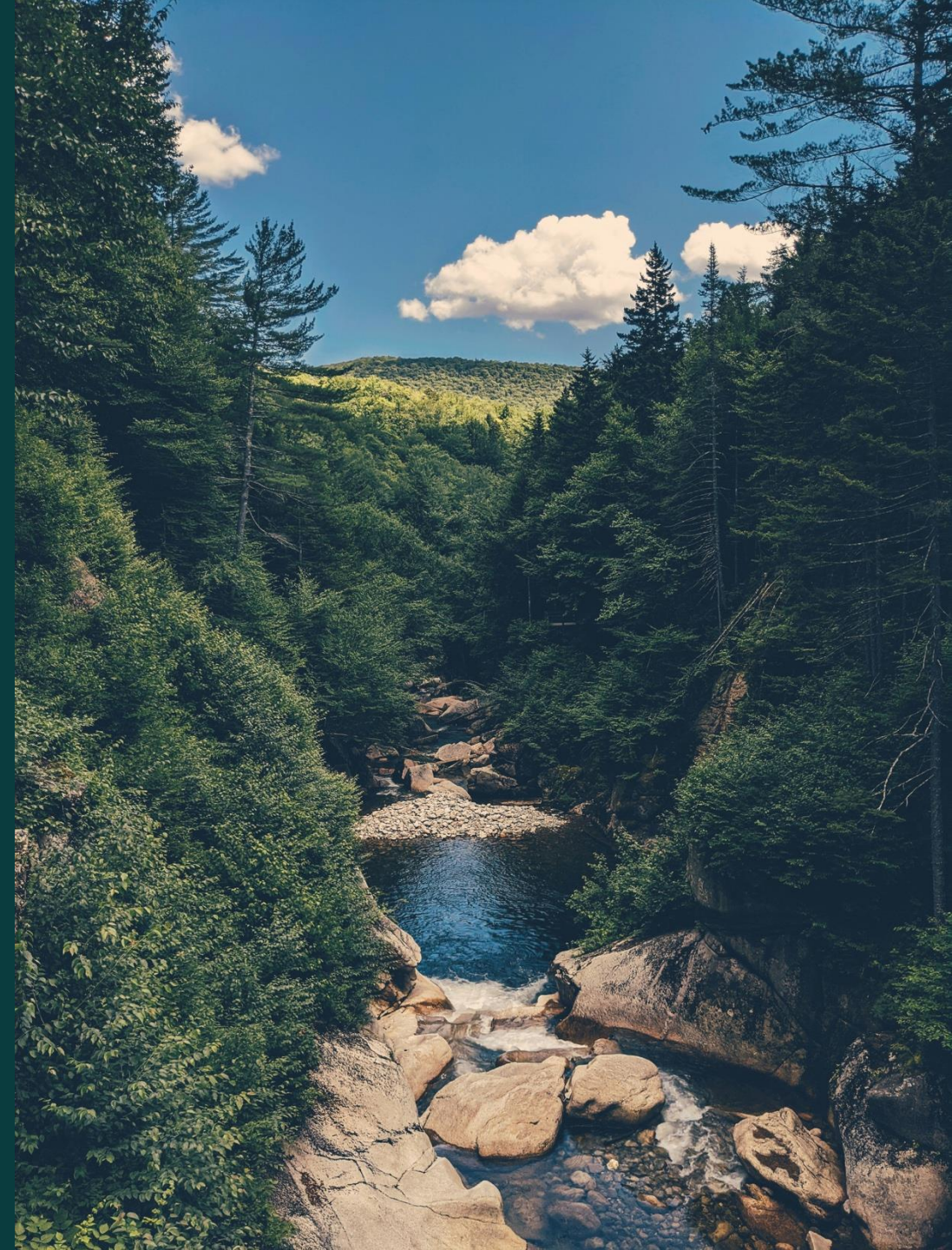
Audience Q&A

Overview of Technical Assistance for Rural, Small, Tribal and Other Water Systems

Caroline Koch
Policy Director



cak@waternow.org



RST Eligible Entities



City
Town
Borough
County



District
Association
Tribe
Parish



An authorized Indian
tribal organization
Other public agencies

Defining “Small, Rural” Systems

Wastewater systems that treat
 ≤ 1 million gallons per day of
wastewater

or

Systems that serve a population
of $< 10,000$ persons

Defining “Tribal” Systems



Systems that serve populations of federally recognized tribes, Alaska Native Villages, and tribes on former reservations in Oklahoma

Types of Technical Assistance Available



Funding & Financial Management

- Funding application services
- Assessing system's finances
- Affordability programs
- Rates and fiscal planning
- Capital improvement planning
- Effective budgeting



Asset & Utility Management

- Creating an asset management plan
- Equipment repair and replacement
- Effective utility management
- Assessing vulnerability



Public Engagement & Partnerships

- Public engagement strategies
- Training for boards and elected officials
- Group facilitation and visioning
- Regionalization strategies

Technical Assistance Process

- 1 Meeting to Assess System Needs
- 2 Project Prioritization
- 3 Project Scoping & Phase Development
- 4 Funding & Financing Determination
- 5 Project Construction & Closeout

Get Help Form



WaterNow Rural, Small, Tribal Water
System Technical
Assistance Request Form



Get Free Technical Assistance

To request assistance, please fill out the form below. You will be asked a few questions to help us understand your system and what kind of assistance you need.

cak@waternow.org [Switch account](#)



✉ Not shared

* Indicates required question

Name *

Your answer

Title/Position *

Your answer

Get Help Form



Phone Number *

Your answer

Email *

Your answer

Name of the system, organization, or community you represent: *

Your answer

City *

Your answer

State *

Your answer

Get Help Form



Are you requesting assistance on behalf of a storm water or wastewater system? *

☐ Storm water

☐ Wastewater

☐ Both

Briefly describe the challenge your system is facing or the type of assistance you are seeking *

Your answer

Submit

Clear form



- 250 hours of **pro bono technical assistance**
- Over a **6-12 month** period
- City/Agency identified project, driven by **local priorities**
- **Jump start** innovative water management initiatives





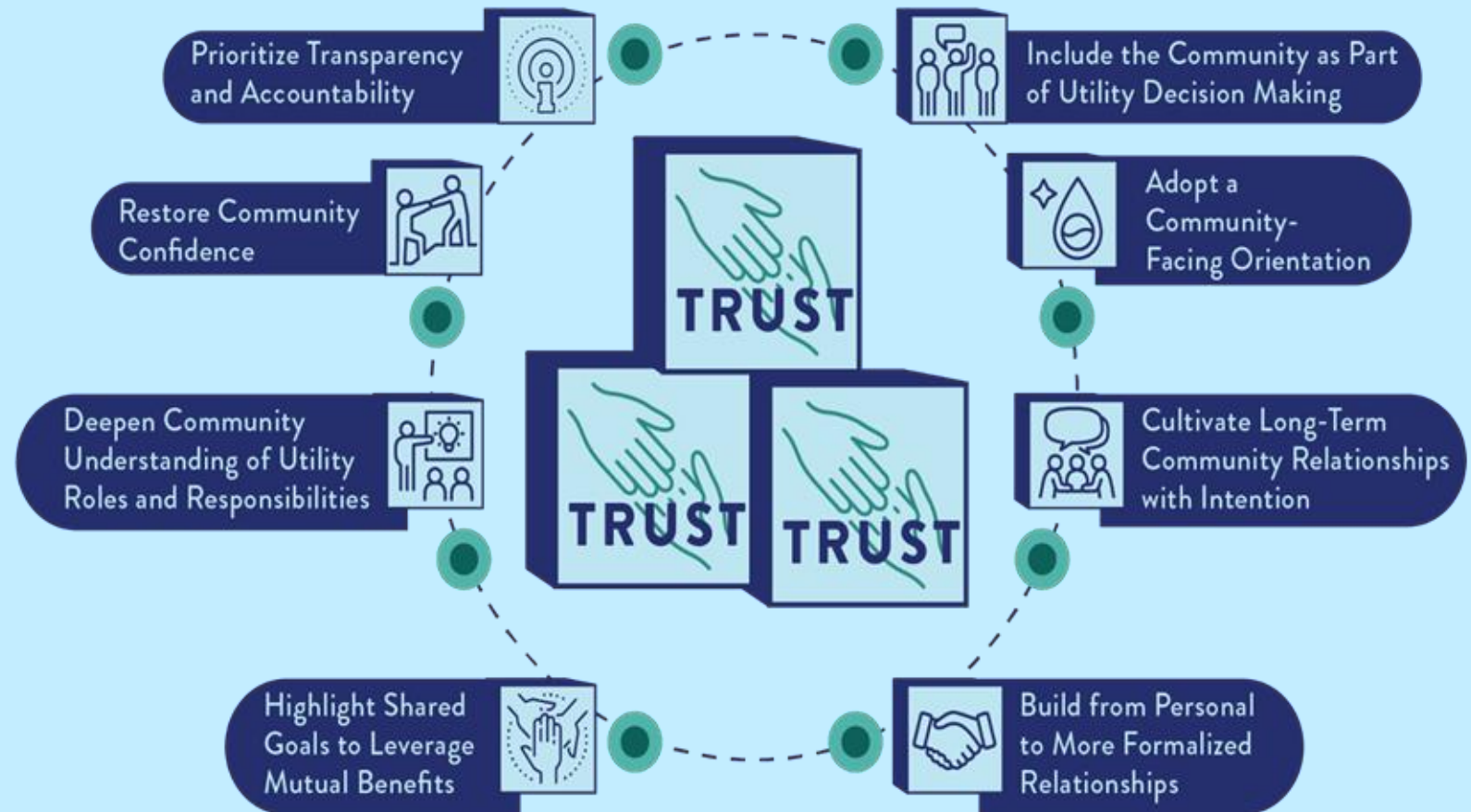
Project Accelerator

A WaterNow Initiative



Submit your application by May 15!

Building Blocks of Trust: Best Practices for Authentic Partnerships & Community Engagement



The background of the slide features a close-up photograph of a maple seed pod (samaras) with its characteristic wing. The seed pod is in sharp focus, showing a reddish-brown hue. The background is a soft, out-of-focus bokeh of green and yellow light, suggesting a natural, sunlit environment. A solid teal-colored horizontal band spans the width of the slide, positioned in the middle, which serves as a backdrop for the title text.

Moderated Q&A

Sign Up for Free 1:1 Consulting



WaterNow Alliance

NH RST Training Office Hours



15 min



Web conferencing details provided upon confirmation.

Select a Date & Time

< April 2026 >

Friday, April 24

SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

• times you're available

1:00pm

1:15pm

1:30pm

1:45pm

Join WaterNow

LEARN MORE AND SIGN UP

www.waternow.org/join-the-leaders





Please Complete the Post-Training Survey!

Thank you!



For more information email:

[Caroline Koch, cak@waternow.org](mailto:Caroline.Koch,cak@waternow.org)



Resources:

waternow.org
efcnetwork.org/get-help/