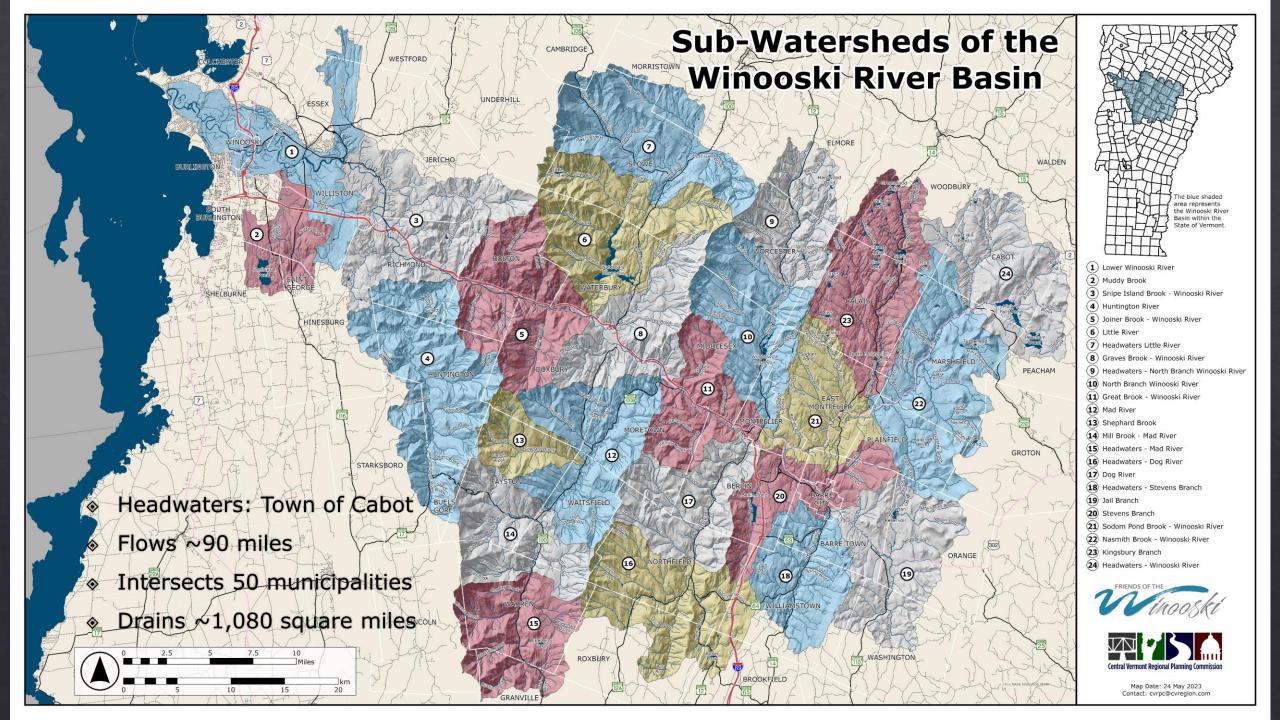
An Overview of the Winooski River Basin Clean Water Service Provider

CVRPC Board Meeting
9 January 2024

Background

- ♦ 2016: U.S. Environmental Protection Agency
 - ♦ Pollution control plan for Lake Champlain → Total Maximum Daily Load (TMDL)
 - Established maximum amount of Phosphorus that Lake Champlain can receive before exceeding <u>Vermont Water Quality Standards</u>
- ♦ 2019: Act 76, The Clean Water Service Delivery Act
 - Provides long-term funding (> \$20 million annually) to support water quality restoration
 - Establishes a network of decentralized Clean Water Service Providers (CWSPs) and Basin Water Quality Councils (BWQCs)
- ♦ 2021: Environmental Protection Rule Chapter 39 Clean Water Service Provider Rule
 - ♦ Assigns a Clean Water Service Provider to each basin " ... for the purpose of achieving pollutant reduction values established by the Secretary" (§ 39-101)



Role of the Clean Water Service Provider

- Adhere to management requirements
- Engage the public
- Follow Vermont Open Meetings & Records Retention Laws
- Support Basin Water Quality Councils
- Identify & implement non-regulatory water quality restoration projects to meet P-reduction targets
- Establish partnerships & administer sub-awards / contracts
- Verify & inspect projects over time
- Ensure consistency with the Winooski River Tactical Basin Plan
- Help Basin Water Quality Council consider pollution reduction & co-benefits

Winooski River Basin Clean Water Service Provider: Start-up

- Department of Environmental Conservation issued Start-up grant in October 2021
- Award has been amended four times
- ♦ Total award amount: \$187,197
- Responsibilities:
 - Phase 1: develop website, establish sub-award tracking process, implement accounting protocols, develop policies, assist with development of guidance
 - Phase 2: establish & empanel Basin Water Quality Council, capacity development / training, meeting rules / policies / bylaws, host meetings, prepare for procurement
 - Phase 3: project management & data tools, prepare for procurement, develop scoring matrix for project evaluation, attend trainings, host Basin Water Quality Council meetings
 - Phase 4: attend state operations & maintenance trainings, collaborate with State to develop adaptive management plan for operations & maintenance and methodology for adopting projects, partner support for operations & maintenance trainings

Basin Water Quality Councils: Act 76

- Provide local water quality knowledge
- Establish policy guiding Clean Water Service Provider
- Make decisions regarding "most significant water quality impairments in the basin"
- Prioritize projects that address impairments and are consistent with the Winooski River Tactical Basin Plan
- Participate in the basin planning process
- ♦ Meet 4+ times / year
- Membership: Natural Resources Conservation Districts, Regional Planning Commissions, Watershed Organizations, Municipalities, Conservation Organizations

Winooski River Basin Water Quality Council

Membership

- Land Conservation Organization (1 seat): Vermont River Conservancy
- Natural Resources Conservation District (2 seats): Lamoille & Winooski NRCDs
- ♦ Watershed Protection Organization (2 seats): Friends of the Mad River & Friends of the Winooski River
- Municipalities (2 seats): Town of Essex & Northfield
- Regional Planning Commission (2 seats): Chittenden County & Central Vermont RPCs

Meetings

- ♦ First meeting: 21 April 2022
- ♦ Meeting schedule: 3rd Thursday, 1:00 PM 3:00 PM
- Accomplishments
 - Adopted Council Bylaws & Public Engagement Policy
 - Adopted project scoring methodology, including consideration of co-benefits

Prepare for Procurement

- Request for Qualifications for Project Implementors (sub-grantees) issued
 March 2023
 - Who is eligible? Municipalities, Regional Planning Commissions & (non-profit)
 Organizations
 - Benefits: Simplifies project proposal and sub-award processes, 3-year Master
 Agreement















Prepare for Procurement

- Request for Qualifications for Sub-contractors issued October 2023
 - Engineering & Construction services
 - Review of Statements of Qualification ongoing
 - ⋄ Benefits: Simplifies procurement, 3-year Master Agreement



















Winooski River Basin Clean Water Service Provider: Formula Grant

♦ FY23 Formula Grant: October 2022

♦ FY24 Formula Grant: September 2023

Annual Funding Based on Formula							
	Design, Engineering & Construction	Project Identification & Development	Total Project Funding	Maximum Administrative Costs	Total Project Funding + Max Admin		
FY23	\$827,068	\$57,737	\$884,805	\$156,142	\$1,040,947		
FY24	\$871,791	\$60,859	\$932,650	\$164,585	\$1,097,235		

Phosphorous Reduction Targets (kg)								
Farm Fields	Developed Lands	Forest	Streams	Total				
9.2	23.9	0	36.4	69.6				

Project Phase Terminology

Identification → Development → Design → Implementation

- Identification: sector-specific and multi-sector assessments follow established protocols to identify areas with the highest contributions of pollutants and recommend potential best management practices
- Development: scoping work on any identified project to determine feasibility, constraints, and overall suitability for implementing the project
- Design: general term that captures all the work needed to ready a scoped / developed project for implementation; preliminary design (30%) and final design (100%)
- Implementation: mobilization of effort to implement the clean water project

Project Types

- Agriculture pollution prevention
- Roads & Stormwater Gully
- Stormwater (including Master Planning)
- Forestry (e.g. Strategic Wood Addition)
- Lake Shoreland, Lake Wise
 Assessments, & Lake Watershed
 Action Plans

- Dam Removal
- Stream Geomorphic Assessment
- ♦ Floodplain / Stream Restoration
- ♦ River Corridor / Wetland Easement
- Riparian Buffer Planting
- Wetland Restoration
- Project Development
- Operations & Maintenance

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Project Solicitation

- CVRPC, in its role as the Clean Water Service Provider for the Winooski River Basin, issues Request(s) for Proposals to identify potential projects
 - Vermont Bid Systems, CVRPC CWSP website, direct email to all municipalities (Town Administrator, Planning Commission, Conservation Commission), Regional Planning Commissions, Natural Resources Conservation Districts and conservation & watershed organizations
- ♦ Projects must ...
 - be entered into the Watershed Projects Database
 - be non-regulatory with a primary goal of phosphorous reduction
 - align with the vision set forth by Act 76, the Clean Water Service Delivery Act and Department of Environmental Conservation guidance
- Project Completion Funding
 - ♦ FY23: \$884,805
 - ♦ FY24: \$932,650
 - ♦ Funds allocated to date: \$44,604

Project Solicitation Schedule

- ♦ FY23 Round 1
 - 2 proposals received
 - 1 proposal funded; 1 proposal deemed ineligible for funding
- ♦ FY24 Round 1
 - ⋄ 0 proposals received
- ♦ FY24 Round 2
 - ⋄ 5 proposals received
 - ♦ Funding decision date: 18 January 2024
- Project solicitation (general) schedule
 - Request for Proposals open for 2 months
 - Proposal review completed over the course of 2 Basin Water Quality Council Meetings
 - Issue at least four opportunities per year

Project Scoring Methodology

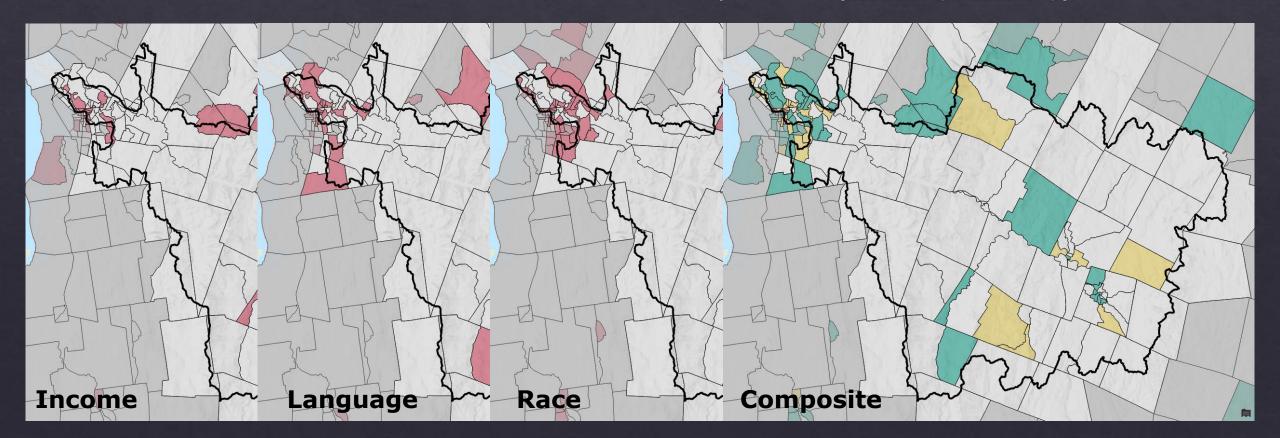
Factor	Points	Description	
P-reduction efficiency	75	Sliding scale: Ratio of proposed cost to overall phosphorous reduction	
Project risk	10	2.5 points each: landowner relations, organizational capacity, O $\&$ M, permitting	
Design life	Design life 5 For projects with design life > 15 years		
Co-benefits 10 According to adopted methodology		According to adopted methodology	

P-reduction Efficiency + Project Risk + Design Life + Co-benefits = Total Project Score

Co-benefit Type	Weight
Ecology	17.78%
Ecosystem Service	30.44%
Environmental Justice	23.78%
Community Building	15.78%
Education	12.22%

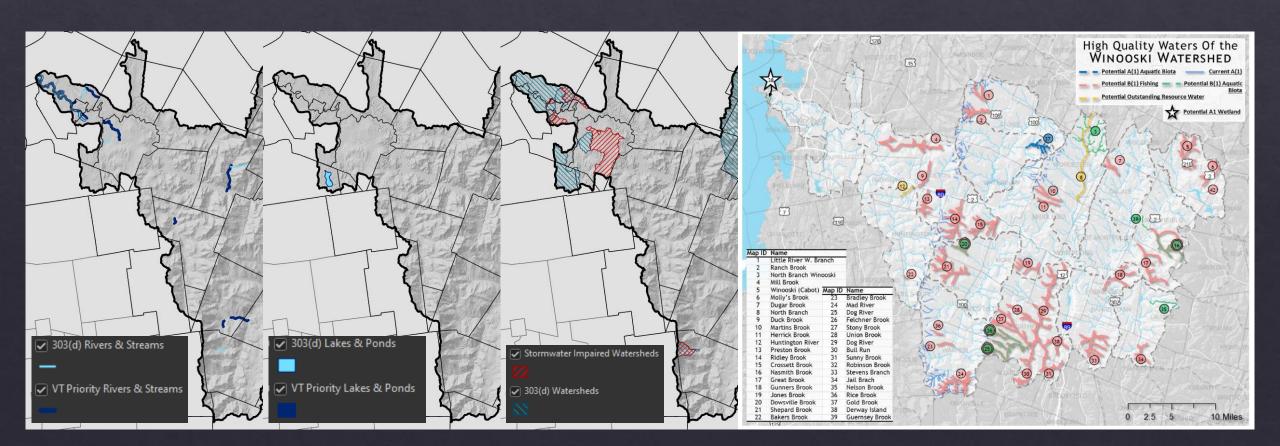
Project Scoring Methodology: Co-Benefits

Environmental Justice: realized when a project is situated in a Census Block Group where one or more demographic conditions exist to warrant the identification of that area as an Environmental Justice Focus Population (S.148 (Act 154))



Project Scoring Methodology: Co-Benefits

 Ecology: realized when a project reduces sediment and / or non-P nutrient loads to stressed, altered, impaired or priority waterways

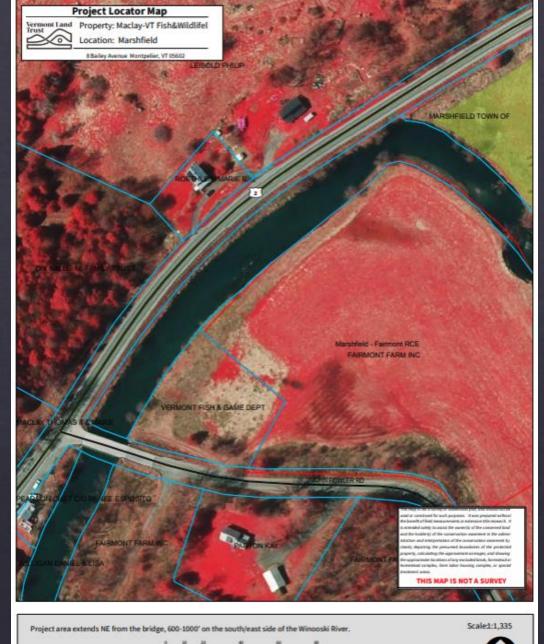


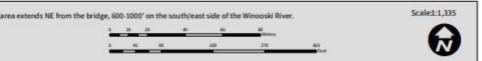
Project Scoring Methodology: Co-Benefits

- Ecosystem Services:
 - Any positive benefit that wildlife or ecosystems provide to people (<u>National</u> <u>Wildlife Federation</u>) and / or benefits people obtain from ecosystems (<u>Millennium</u> <u>Ecosystem Assessment</u>)
 - Our focus: regulating services that moderate natural phenomena (carbon sequestration & flood resilience)
- Community Building: realized when a project involves the community in data collection and decision-making, enhances the working landscape or provides recreational benefits
- Education: realized when a project includes aspects of public outreach designed to educate community members about the importance of phosphorus reduction and watershed health

John Fowler Road Berm Removal

- ♦ Proposal submitted: 12 June 2023
- Project site: Marshfield private landowner + Vermont Fish & Wildlife Department
- ♦ Funding request: \$44,604
- ♦ Funding decision: 20 July 2023
- Project implementor: Vermont Land Trust
- Project engineer: Fitzgerald Environmental Associates
- Estimated annual total phosphorus reduction: 118.95 kilograms / year





References & Resources

- ♦ Act 76 Background on the Law, Rule, and Guidance
- ♦ Act 76 Factsheet
- ♦ Clean Water Initiative Program Funding Policy SFY 2023
- ♦ CVRPC Winooski Basin Clean Water Service Provider
- ♦ The Clean Water Service Provider Network
- Staff contacts:
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