

# Winooski River Basin Water Quality Council Meeting

21 November 2024

# Agenda

**1:00 Call to order & Roll call**

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 17 October 2024 meeting (action)

1:20 Project Proposal Initial Review (discussion)

- ◇ Friends of the Winooski River
  - ◇ Riparian Buffer Planting – Fecteau
  - ◇ Riparian Buffer Planting – Fowler Road
  - ◇ Riparian Buffer Planting – Huntington Acres
  - ◇ Riparian Buffer Planting – Tyler Place

1:50 Project Proposal Final Review (action)

- ◇ Vermont Land Trust
  - ◇ Roland Stream Crossing
- ◇ Central Vermont Regional Planning Commission
  - ◇ Project Development in Waitsfield

2:10 Announcements (discussion)

2:15 Adjourn

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# Initial Proposal Review:

## Riparian Buffer Planting - Huntington

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' – 150' buffer with trees & shrubs on a 1.25-acre floodplain along the Huntington River to better trap sediment, slow bank erosion and filter agricultural runoff. The landowner supports this effort.
- ◆ Project Deliverables:
  - ◆ Acres of riparian buffer planted / restored: 1.25
  - ◆ P-reduction: 2.73 kg / yr
- ◆ Project Budget:
  - ◆ Formula Grant: \$23,293.12
  - ◆ Non-State Matching Funds: \$3,080.00
  - ◆ Total Project Budget: \$26,373.12



### LEGEND

- Parcels (standardized)
- Roads**
  - Interstate
  - US Highway, 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

### NOTES

Map created using ANR's Natural Resources Atlas

124.0 0 62.00 124.0 Meters  
 WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere 1" = 203 Ft. 1cm = 24 Meters  
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◆ **Riparian Buffer Planting – Fowler Road**

◆ Riparian Buffer Planting – Huntington Acres

◆ Riparian Buffer Planting – Tyler Place

1:50 Project Proposal Final Review (action)

◆ Vermont Land Trust

◆ Roland Stream Crossing

◆ Central Vermont Regional Planning Commission

◆ Project Development in Waitsfield

2:10 Announcements (discussion)

2:15 Adjourn

# Initial Proposal Review: Riparian Buffer Planting - Marshfield

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' buffer on a 0.75-acre floodplain along the Winooski River to better trap sediment, slow flood waters and filter agricultural runoff. This project will follow the completion of the berm removal (by Vermont Land Trust, also supported with Formula Grant funding). The landowner supports this effort.
- ◆ Project Deliverables:
  - ◆ Acres of riparian buffer planted / restored: 0.75
  - ◆ P-reduction: 2.0 kg / yr
- ◆ Project Budget:
  - ◆ Formula Grant: \$18,530.00
  - ◆ Total Project Budget: \$18,530.00



### LEGEND

- Parcels (standardized)
- Roads**
  - Interstate
  - US Highway, 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
  - Legal Trail
  - Private Road/Driveway
  - Proposed Roads
- Town Boundary

### NOTES

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165.0 0 82.00 165.0 Meters

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere 1" = 271 Ft. 1cm = 33 Meters

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**1:20 Project Proposal Initial Review (discussion)**

◆ **Friends of the Winooski River**

◆ Riparian Buffer Planting – Fecteau

◆ Riparian Buffer Planting – Fowler Road

◆ **Riparian Buffer Planting – Huntington Acres**

◆ Riparian Buffer Planting – Tyler Place

1:50 Project Proposal Final Review (action)

◆ Vermont Land Trust

◆ Roland Stream Crossing

◆ Central Vermont Regional Planning Commission

◆ Project Development in Waitsfield

2:10 Announcements (discussion)














2:15 Adjourn

# Initial Proposal Review: Riparian Buffer Planting - Huntington

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' – 150' buffer on privately owned land along the Huntington River with trees & shrubs on a 1.25-acre floodplain to better trap sediment, slow bank erosion and filter agricultural runoff. The landowner supports this effort.
- ◆ Project Deliverables:
  - ◆ Acres of riparian buffer planted / restored: 1.25
  - ◆ P-reduction: 1.58 kg / yr
- ◆ Project Budget:
  - ◆ Formula Grant: \$17,955.00
  - ◆ Total Project Budget: \$17,955.00



### LEGEND

-  Parcels (standardized)
- Roads**
  -  Interstate
  -  US Highway, 1
  -  State Highway
  -  Town Highway (Class 1)
  -  Town Highway (Class 2,3)
  -  Town Highway (Class 4)
  -  State Forest Trail
  -  National Forest Trail
  -  Legal Trail
  -  Private Road/Driveway
  -  Proposed Roads
-  Town Boundary

1: 4,870  
November 11, 2024

247.0 0 124.00 247.0 Meters

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere 1" = 408 Ft. 1cm = 49 Meters

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**1:20 Project Proposal Initial Review (discussion)**

◆ **Friends of the Winooski River**

◆ Riparian Buffer Planting – Fecteau

◆ Riparian Buffer Planting – Fowler Road

◆ Riparian Buffer Planting – Huntington Acres

◆ **Riparian Buffer Planting – Tyler Place**

1:50 Project Proposal Final Review (action)

◆ Vermont Land Trust

◆ Roland Stream Crossing

◆ Central Vermont Regional Planning Commission

◆ Project Development in Waitsfield

2:10 Announcements (discussion)

2:15 Adjourn

# Initial Proposal Review: Riparian Buffer Planting - Jericho

- ◆ Primary Contact: Samuel Puddicombe, Friends of the Winooski River
- ◆ Project Type: Riparian Buffer Planting – Implementation
- ◆ Project Description: This proposal seeks funds to plant a 50' buffer on privately owned land along an unnamed tributary (?) to better trap sediment and slow flood waters. This effort will extend previously completed work (USFWS) upstream of the project site. The landowner supports this effort.
- ◆ Project Deliverables:
  - ◆ Acres of riparian buffer planted / restored: 1.5
  - ◆ P-reduction: 2.21 kg / yr
- ◆ Project Budget:
  - ◆ Formula Grant: \$ 26,208.47
  - ◆ Non-State Matching Funds: \$4,317.50
  - ◆ Total Project Budget: \$30,525.97





### LEGEND

- Parcels (standardized)
- Roads**
  - Interstate
  - US Highway, 1
  - State Highway
  - Town Highway (Class 1)
  - Town Highway (Class 2,3)
  - Town Highway (Class 4)
  - State Forest Trail
  - National Forest Trail
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- ◆ Friends of the Winooski River
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**1:50 Project Proposal Final Review (action)**

- ◆ **Vermont Land Trust**
  - ◆ **Roland Stream Crossing**
- ◆ Central Vermont Regional Planning Commission
  - ◆ Project Development in Waitsfield

2:10 Announcements (discussion)

2:15 Adjourn

# Staff Review:

## Roland Stream Crossing - Richmond

- ◆ Primary Contact: Allaire Diamond, Ecology & Restoration Program Director
- ◆ Project Type: Floodplain / Stream Restoration
- ◆ Project Phase: Implementation
- ◆ Project Description: Implementation of a stream crossing improvement on a headwater tributary of the Winooski River. Restoration includes two culvert replacements and partial stone wall removal.
- ◆ P-reduction:
  - ◆ 5.72 kg / yr
  - ◆ *Questions regarding the eligibility of this project for p-crediting remain. This project is not fundable at this time. The CWSP, VLT and Basin Planner will work to resolve outstanding issues and bring this back to the BWQC for funding approval at the December 2024 meeting.*
- ◆ Project Budget:
  - ◆ \$48,995.88

# Staff Review: Roland Stream Crossing - Richmond

**Table 1-1: Cost-Effectiveness Score**

Criteria	Value
Funding Request	\$48,996
Future Funding Request	\$0
Total Cost	\$48,996
Phosphorous Reduction (kg / yr)	5.72
Design Life	10
Cost Effectiveness (\$ / kg)	\$12,849
<b>Cost-Effectiveness Score</b>	<b>45</b>
Cost Effectiveness Formula (\$ / kg / yr) = ((15 years / project design life) * (Total Cost)) / (Phosphorous Reduction (kg / yr))	
Maximum Implementation-phase Cost-Effectiveness Score = 75 points	

**Table 1-2: Project Risk Score**

Risk Category	Points
Landowner Relations	2.5
Organizational Capacity	2.5
Operations & Maintenance	0
Permitting	0
<b>Total Score</b>	<b>5</b>
Maximum Total Score = 10 points	

# Staff Review: Roland Stream Crossing - Richmond

**Table 1-3: Co-benefits Score**

Co-benefit	Score	Weight	Weighted Score
Environmental Justice	0	17.78%	0
Income	0		
Race	0		
Language	0		
Ecological Benefits	0	30.44%	0
Listed / Impaired Water Resource	0		
Priority Water Resource	0		
Habitat & Species Enhancement	0		
Ecosystem Services	5	23.78%	1.189
Flood Regulation	5		
Carbon Sequestration	0		
Community Building	3	15.78%	0
Community Involvement	0		
Working Landscape	3		
Recreation	0		
Education	0	12.22%	0.4734
Interpretive Signage	0		
Meetings & Workshops	0		
<b>Total Co-benefits Score</b>			<b>1.6624</b>
Maximum Score = 10 points			

**Table 1-4: Total project Score**

Criteria	Score
Cost-Effectiveness Score	45
Project Risk Score	5
Design Life Score	0
Co-benefits Score	1.66
<b>Total Score</b>	<b>51.66</b>

The anticipated total project cost is below the cost-effectiveness rate necessary to achieve the phosphorous-reduction target for the basin.

*Recommendation: prioritize this funding request once eligibility determination is complete*

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**1:50 Project Proposal Final Review (action)**

- ◆ Vermont Land Trust
  - ◆ Roland Stream Crossing
- ◆ **Central Vermont Regional Planning Commission**
  - ◆ **Project Development in Waitsfield**

2:10 Announcements (discussion)

2:15 Adjourn

# Final Proposal Review:

## Floodplain Project Development - Waitsfield

- ◆ Primary Contact: Brian Voigt, Central Vermon Regional Planning Commission
- ◆ Project Type: Project Development
- ◆ Project Description: The project proposes to scope and develop 5 – 6 Floodplain Restoration projects along the Upper Mad River. The four projects included in the initial proposal are located on town land managed by the Waitsfield Conservation Commission. *Since the proposal was submitted, two adjacent landowners have expressed interest in developing similar types of projects on their properties.*
- ◆ Project Deliverables:
  - ◆ Number of projects scoped: 4 – 6
  - ◆ Specific project development: 0 – 6
- ◆ Project Budget:
  - ◆ Project Development: \$8,461.15
- ◆ Recommendation: *prioritize this funding request*

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# Announcements

- ◆ Project Development & Outreach:
  - ◆ Plainfield – site visit, opportunities for collaboration
- ◆ Clean Water Advisory Committee Meeting: [recording available](#)
  - ◆ *FEMA Mapping, Flood Hazard River Corridor Bylaws, and Hazard Mitigation Funding*
    - ◆ Ned Swanberg, Vermont Flood Hazard Mapping Coordinator | Regional Floodplain Manager
    - ◆ Lisa Kolb, Hazard Mitigation Section Chief | State Hazard Mitigation Officer
- ◆ Partner announcements

*Next meeting scheduled 19 December 2024*

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