

Winooski River Basin Water Quality Council Meeting

15 January 2026

Agenda

1:00 Call to order & Roll call

1:05 Updates to agenda

1:10 Public Comment

1:15 Review & approve minutes from 18 December 2025 meeting (action)

1:20 Project Proposal Preliminary Review (discussion)

1:35 Friends of the Mad River – Hanks Road Culvert Replacement (discussion)

1:50 Projects in the pipeline

2:15 Announcements

2:20 Adjourn

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Preliminary Proposal Review:

Floodplain Reconnection – Lower Fairgrounds

- ◆ Primary Contact: Brian Voigt, CVRPC
- ◆ Project Type: Floodplain Restoration – Preliminary Design
- ◆ Project Description: This proposal requests funding support to complete a Preliminary Design for a floodplain restoration and riparian buffer planting project on a 9.5-acre site along the Mad River.
- ◆ Project Deliverables:
 - ◆ Acres of floodplain restored: 9.5
 - ◆ P-reduction: 50.7 kg / yr
- ◆ Project Budget:
 - ◆ Formula Grant: \$18,499.20 (no match)
 - ◆ Future Funds: \$1.25 million





208 Flynn Ave #201, Burlington, VT 05401
Phone: (802) 497-2367 Website: www.watershedca.com

Drawn: SK

Checked: AT

Approved: AT

Client:

Central Vermont
Regional Planning Commission


Project Title:

**Upper Mad Valley
Floodplain**
Waitsfield, VT

Drawing Title:

Proposed Conditions
North Floodplain

Location Map



Notes

1) Plan oriented to NAD83 (2011) Vermont State Plane (horizontal) and NAVD88 (vertical).

2) Base orthophoto (captured 2020) sourced from VOGI.

3) Parcel boundaries are sourced from VOGI statewide parcel GIS database and do not represent survey grade boundary information.

Date

10/15/2025

Scale

1" = 100'

Drawing No.

M1

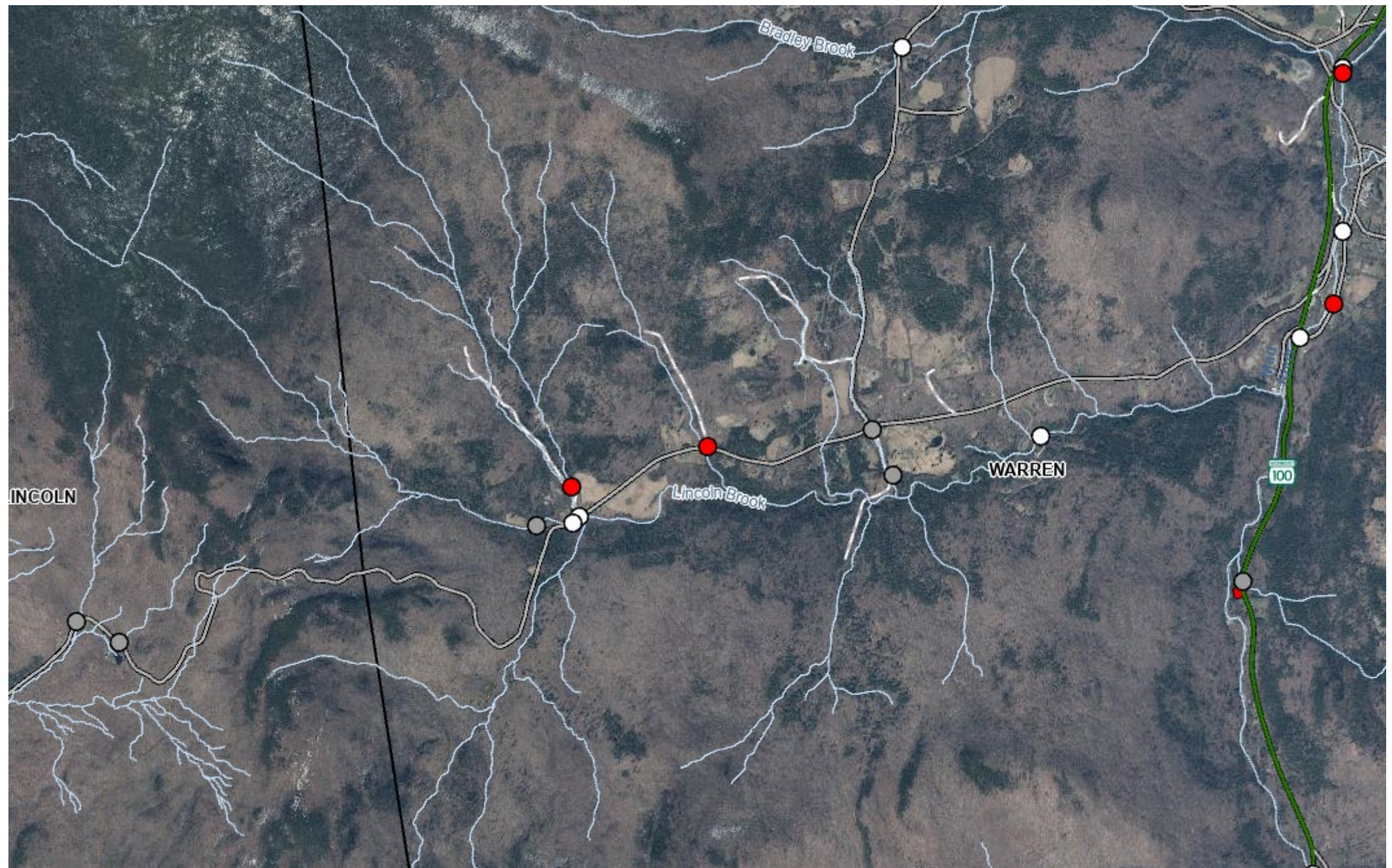
Agenda

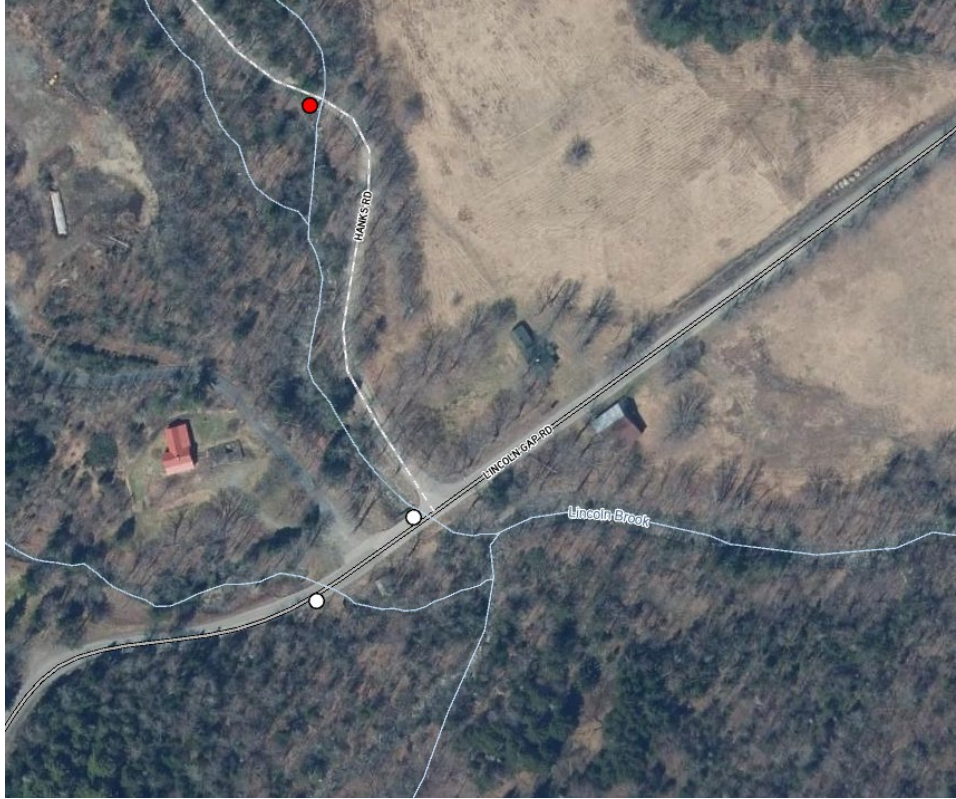
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Hanks Road Culvert (Warren, municipal road)

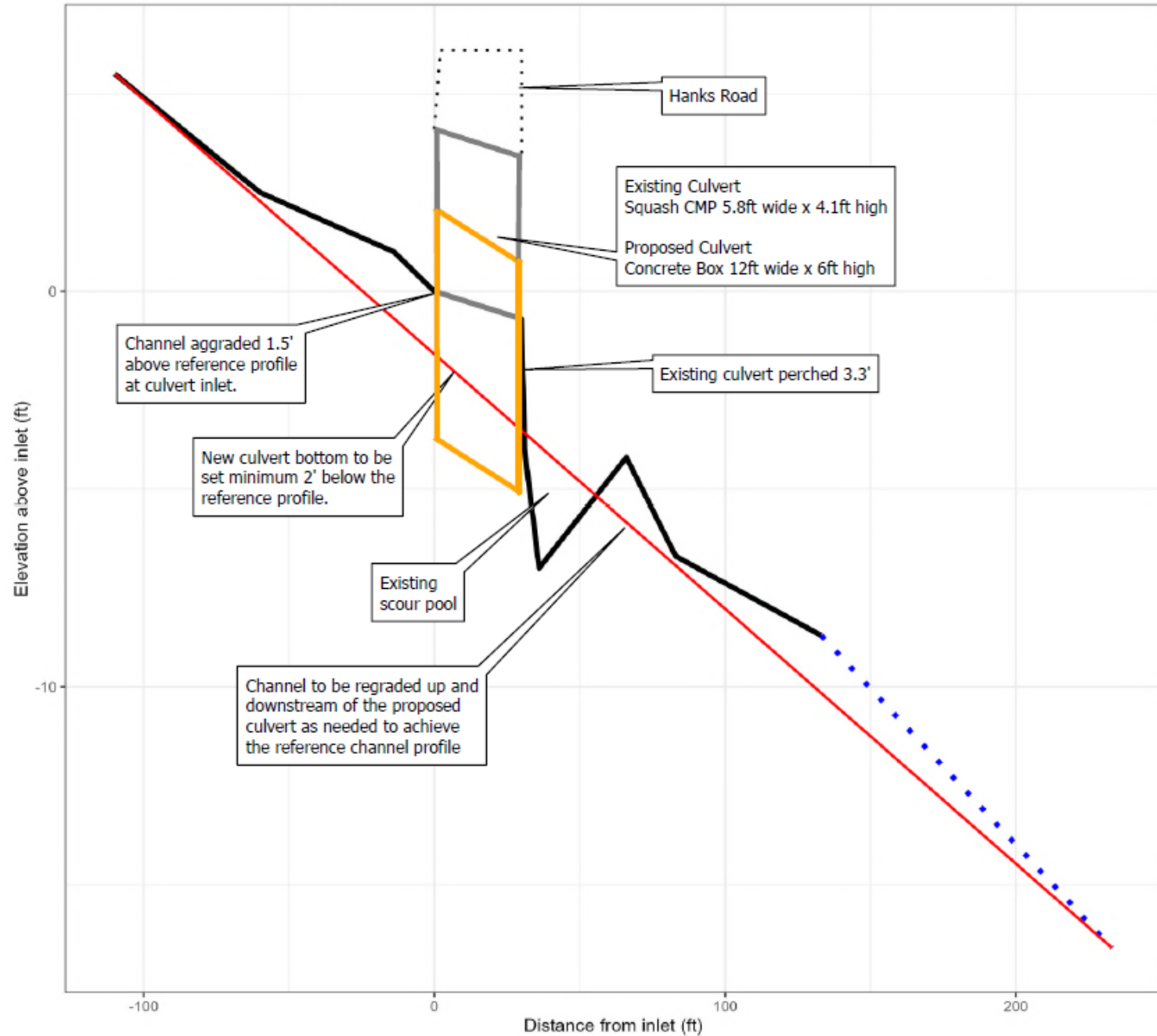
- Scoped in flood resiliency project in 2024 with preliminary design
- Undersized, perched
- Potential 5.5kg phosphorus/year
- AOP: 2-3 miles of headwater stream
- Culvert just downstream replaced in 2019
- Submitted as \$200k for LCBP Clean Water Oct 2025 – not funded
- Supported by Warren, local landowner





- Context
 - Proposal review was favorable, noted high end budget
 - RFP for large projects up to \$200k, total grant funding available \$680k for planning, small and large projects
- Original budget
 - \$170k final design, materials, fees/permits, construction, \$30k personnel/overhead
 - Aluminum box culvert to reduce costs – not aligned to preliminary design recommendation
 - Acknowledged in proposal potential for shortfall
- Updated budget proposal (rough draft)
 - \$300k: \$260 design/materials/construction, \$40k personnel/overhead
 - Potential for concrete box culvert
 - Additional funds for comparing final design assessments, staff managing multiple funding sources
- Strategy: Co-funded LCBP and CWSP
 - CWSP ask of \$150k, 5.5 kg/yr phosphorus = \$27k/kg
 - LCBP AOP RFP Feb 13, max grant award \$500k, total funding available \$2.5M
- Input / feedback
 - Viable?
 - Sequencing?
 - bundling design + implementation

Hanks Brook Culvert Profile



- Stream bottom (field measurements)
- Stream bottom (lidar)
- Reference channel profile
- Road
- Existing Culvert
- Proposed Culvert



Fitzgerald
Environmental
Associates, LLC

164 Main Street, Suite 2
Colchester, VT 05446
Telephone: 802.876.7778
www.fitzgeraldenvironmental.com

Notes:
-Channel and culvert data
collected by FEA
on 9/10/2024

Mad River Resiliency Scoping
Project 45
Hanks Road Culvert Replacement
Warren, VT

JWC
MAP BY

EPF
CHECKED

Not to Scale

December 10, 2024

DATE

SHEET 2

SHEET NO.

Budget justification: Professional services

Professional services line is to be used if you are hiring a subcontractor to complete workplan tasks. For all tasks, if applicable, please describe in detail how the estimate of professional services cost was determined.

Task 3 - \$25,000 for Hanks Brook culvert final design

Task 3 - \$4,000 for legal and permitting fees

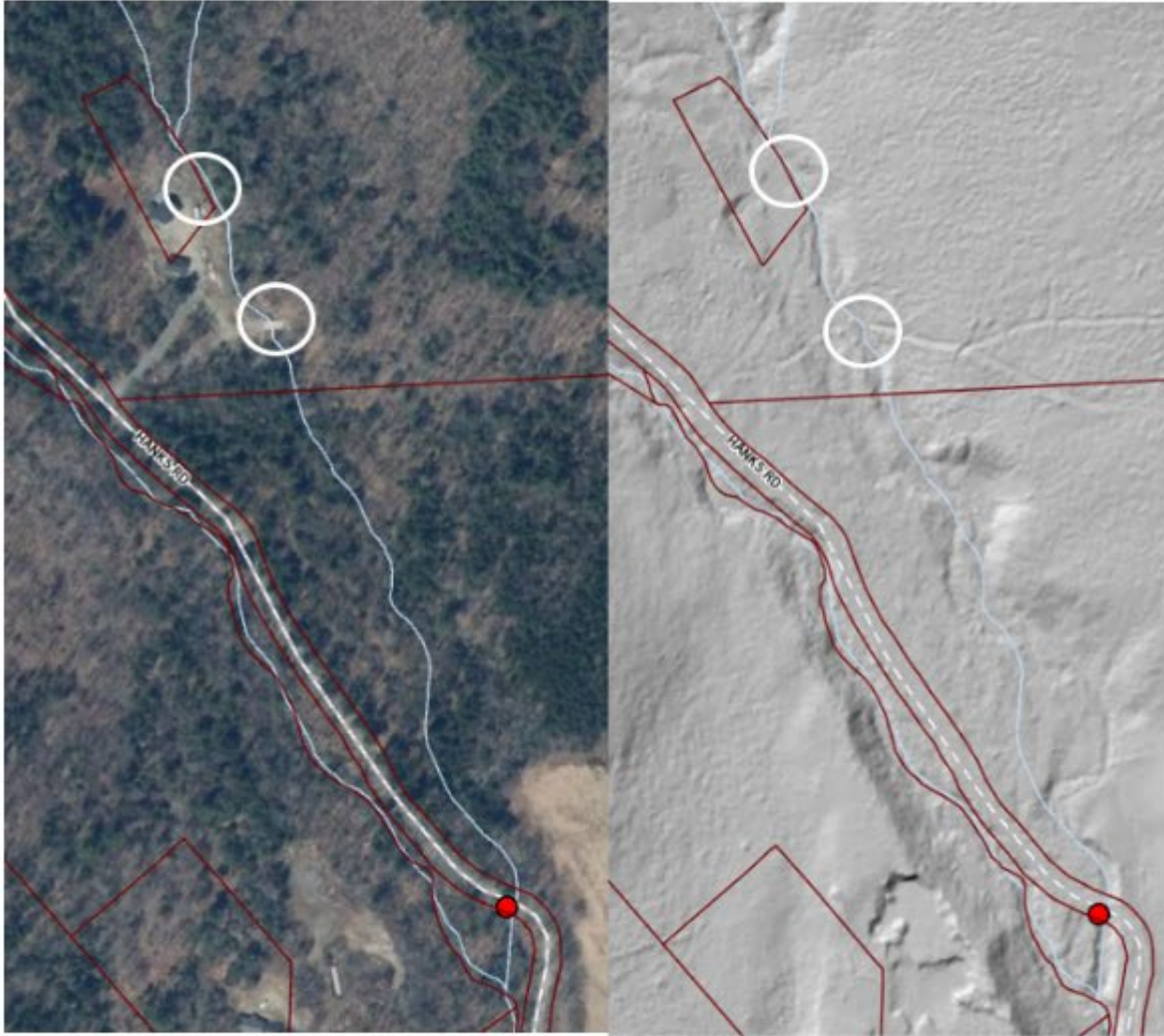
Task 5a - \$89,000 for construction mobilization and structure purchase

Task 5b - \$15,000 for project oversight from design consultant

Task 5b - \$40,000 for construction and installation of Hanks Brook Culvert

Estimates for design and construction were provided by Fitzgerald Environmental.

Hanks Rd – Warren – 44.09896, -72.90791



- Likely two other unmapped, unassessed structures (white circles) on FFI reach on private property
 - If structures are not assessed (considered “unknown bankfull width”), focal structure P credit = 2.05kg/yr
 - If structures are assessed and they are fully geomorphically compatible, focal structure P credit = 3.9kg/yr**
 - If structures are assessed and they are undersized culverts (<50%bkfl width), focal structure P credit = 0kg/yr
 - If structures are assessed and they are undersized bridges (<50%bkfl width), focal structure P credit = 3.2kg/yr**
 - If structures are assessed, are undersized, and are also replaced, total credit for all three structures = 4.7-5.0 kg/yr**

***scenario is an interim estimate not considering FFI's temporal deductions, will need to update structure dataset in FFI for final estimate*

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Completed Projects

Central Vermont Regional Planning Commission			
Berlin Riparian Buffer & Culvert Replacement	Project Development	\$29,908	n/a
Waitsfield Floodplain Restoration	Project Development	\$8,461	n/a
Chittenden County Regional Planning Commission			
Huntington River	Project Development	\$23,358	n/a
Friends of the Winooski River			
Strategic Wood Addition	Final Design	\$19,337	n/a
Tyler Place Riparian Buffer Planting	Implementation	\$17,534	2.21 kg p
1735 Main Rd (Huntington) Riparian Buffer Planting	Implementation	\$14,379	2.73 kg p

Completed Projects

Friends of the Winooski River			
John Fowler Rd (Marshfield) Riparian Buffer Planting	Implementation	\$14,288	2.00 kg p
Huntington Acres Riparian Buffer Planting	Implementation	\$10,051	1.58 kg p
Vermont Land Trust			
John Fowler Rd Berm Removal	Preliminary Design	\$44,603	118.95 kg p
John Fowler Rd Berm Removal	Final Design	\$35,674	14.95 kg p
John Fowler Rd Berm Removal	Implementation	\$85,703	14.95 kg p
Total		\$303,396	23.47 kg p

Currently Funded Projects

Central Vermont Regional Planning Commission			
Marshfield Rd Gully Stabilization & Culvert Replacement	Final Design	\$39,365	8.06 kg p
Northfield Water Street	Project Adoption	\$13,100	22.30 kg p
Friends of the Winooski River			
Tyler Place Riparian Buffer Planting	Implementation	\$25,572	3.75 kg p
Graber Riparian Buffer Planting	Implementation	\$11,155	1.70 kg p
GMC & VTACT Riparian Buffer Planting	Implementation	\$15,548	1.50 kg p
SHO Riparian Buffer Planting	Implementation	\$13,940	1.10 kg p
Riparian Buffer Planting	Project Development	\$6,669	n/a

Currently Funded Projects

Lamoille County Conservation District			
Upper Little River	Project Development	\$30,000	n/a
Vermont Land Trust			
VLT Lands & Easements	Project Development	\$25,000	n/a
Winooski Natural Resources Conservation District			
Cheesefactory Rd RBP	Implementation	\$30,056	3.9 kg p
Total		\$210,405	34.25 kg p

Projects in the Pipeline

Central Vermont Regional Planning Commission			
McCarty Rd Culvert Replacement	Final Design & Implementation	\$330k - \$500k	20.9 kg p 16 kg p
Lower Fairgrounds Floodplain Reconnection	Final Design & Implementation	\$1,175,000	50.7 kg p
Randall Meadow Floodplain Reconnection	Preliminary Design - Implementation	\$2,000,000	~100 kg p
Friends of the Mad River (?)			
Perot Floodplain Reconnection	Final Design & Implementation	\$155,000	5.6 kg p

\$3.87 million

Status Check

	Cost	P-reduction (kg)
Completed Projects	\$303,396	23.47
Funded Projects	\$210,405	34.25
Pending Projects	\$3,840,000	177.2
Total	\$477,000 (\$4,347,076)	53.82 (234.92)

State Fiscal Year	Agreement Amount	Assigned Phosphorous Reduction Target (kg)
2023	\$1,040,947	29.7
2024	\$1,097,235	30.1
2025	\$1,080,394	28.8
2026	\$1,004,301	26.3
Total	\$4,222,880	114.9

Reconsidering Cost-Efficiency

Price / kg (\$)	Implementation	Design
<\$10,000	75	37.5
\$10,000 - \$12,500	65	32.5
\$12,500 - \$15,000	55	27.5
\$15,000 - \$17,500	45	22.5
\$17,500 - \$20,000	35	17.5
\$20,000 - \$25,000	25	12.5
\$25,000 - \$30,000	15	7.5
\$30,000 - \$40,000	5	2.5
>\$40,000	0	0

Reconsidering Cost-Efficiency & Project Development

- ◆ Should there be a maximum award value?
- ◆ Should we hold a “special” call for projects where:
 - ◆ the cost-threshold is further relaxed?
 - ◆ specific sub-watersheds are prioritized?
 - ◆ specific project types are prioritized?
- ◆ How should we incorporate O & M into project evaluation?

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Announcements

◆ **The Flood Safety Act and Beyond: Statewide and Local Efforts to Address Flooding in Your Region:**

Join regional organizations, The Nature Conservancy, Lake Champlain Sea Grant, and VT DEC for virtual conversations to hear about actions the state and local organizations are taking to reduce flood risk and protect our communities.

- ◆ January 22nd at 6pm – Southeast VT region – Info and registration here: <https://bit.ly/fsa-se>
- ◆ February 4th at 6pm – Northeast VT region – Info and registration here: <https://bit.ly/fsa-nek>
- ◆ February 5th at 6:30pm – Mount Ascutney region – Info and registration here: <https://bit.ly/fsa-mountascutney>
- ◆ February 12th at 6pm – Lewis Creek and LaPlatte River regions – Info and registration here: <https://bit.ly/fsa-lewis-laplatte>
- ◆ February 26th at 6pm – Central Eastern VT region – Info and registration here: <https://bit.ly/fsa-central-east>

◆ **Central VT Trail Manager Meet-up:** CVRPC and Vermont Trails and Greenways Council are bringing trail managers together to develop a stronger trail community, learn about current projects in the region, and identify areas of needed support and skill building.

- ◆ **Wednesday, January 28 from 5:30 PM - 7:30 PM at UVM Extension in Berlin. [Registration required](#)**

◆ **CWSP Funding** - The deadline for consideration at the February 2026 Winooski River Basin Water Quality Council meeting is 12 February 2026. [Schedule a meeting](#) with Brian & Lincoln for project reviews & proposal development assistance.

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Next Meeting: 19 February 2026