

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 #2H, 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 VCGI.
- 3) Parcel boundaries are sourced from VCGI statewide parcel GIS database and do not represent survey grade boundary information.

| Date | Drawing No. |
|------------|-------------|
| 10/15/2025 | M1 |
| Scale | 1' = 100' |

Agenda

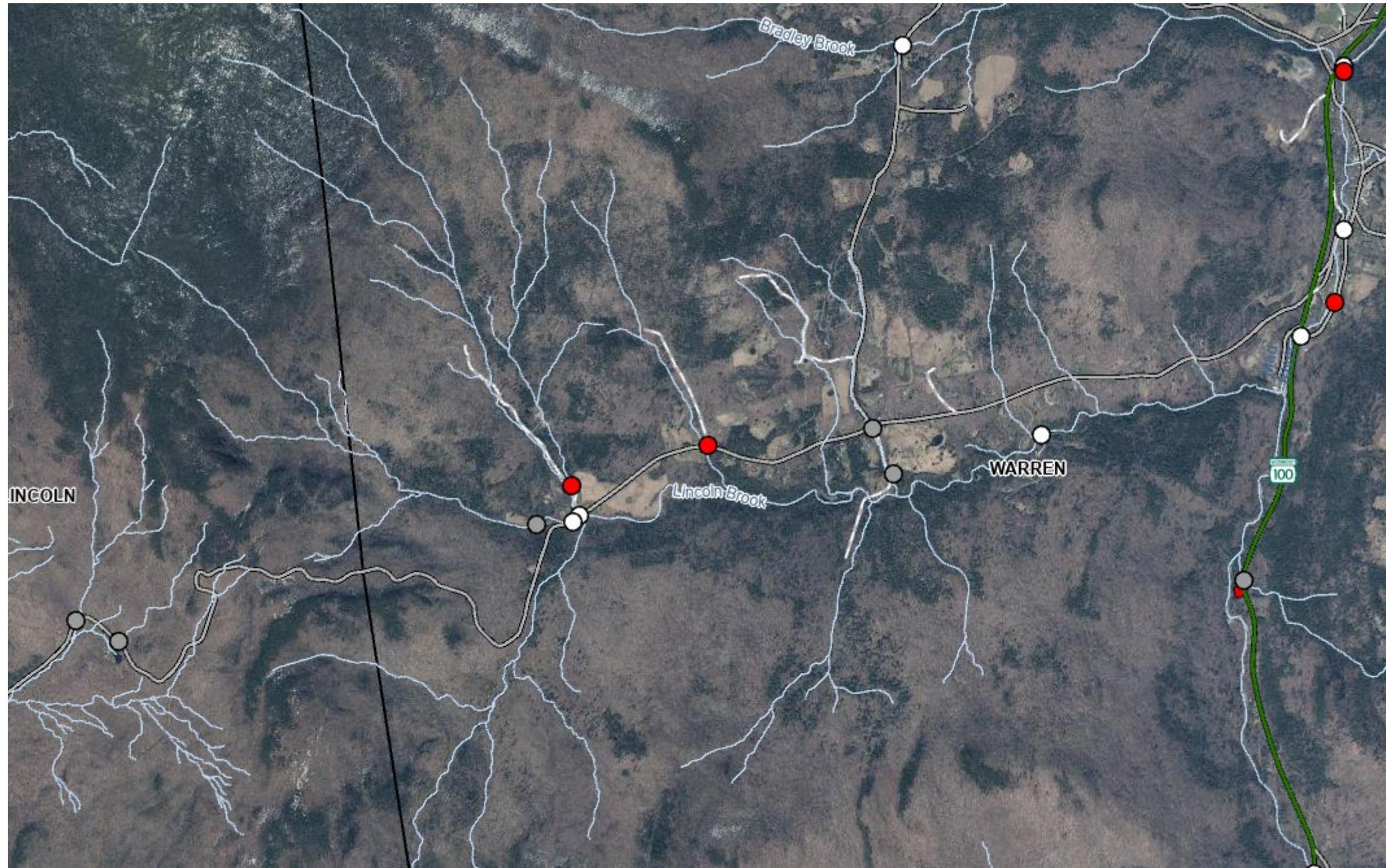
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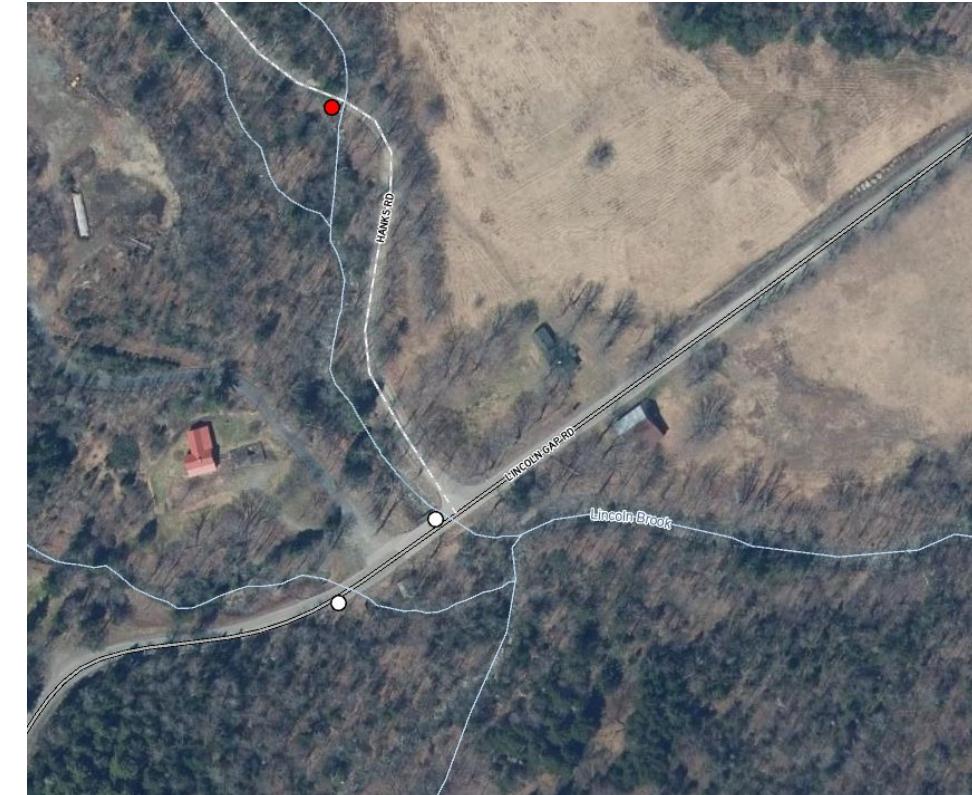
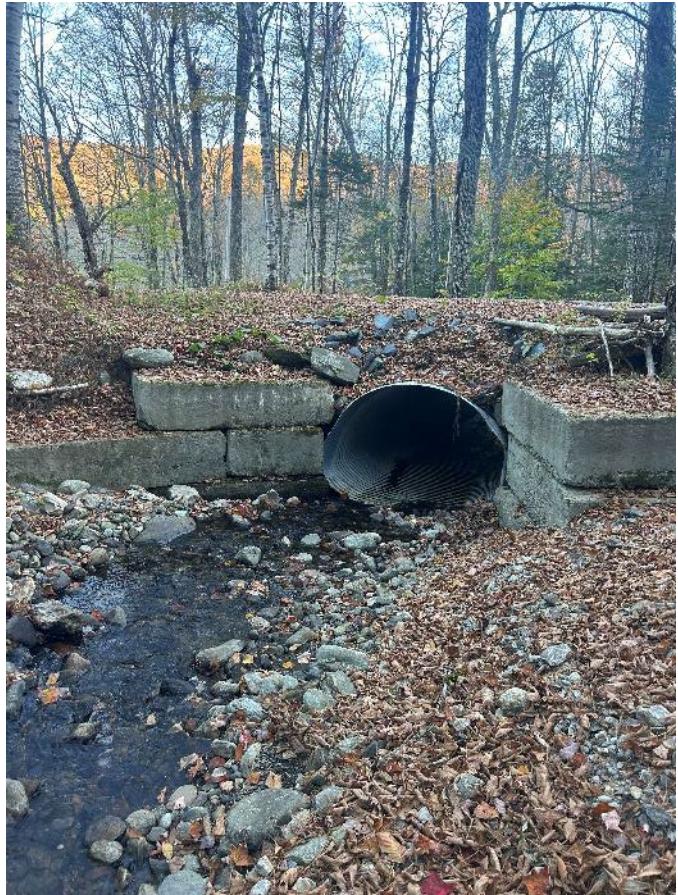


HEALTHY LAND. CLEAN WATER.
VIBRANT COMMUNITY.

Hanks Road Culvert (Warren, municipal road)

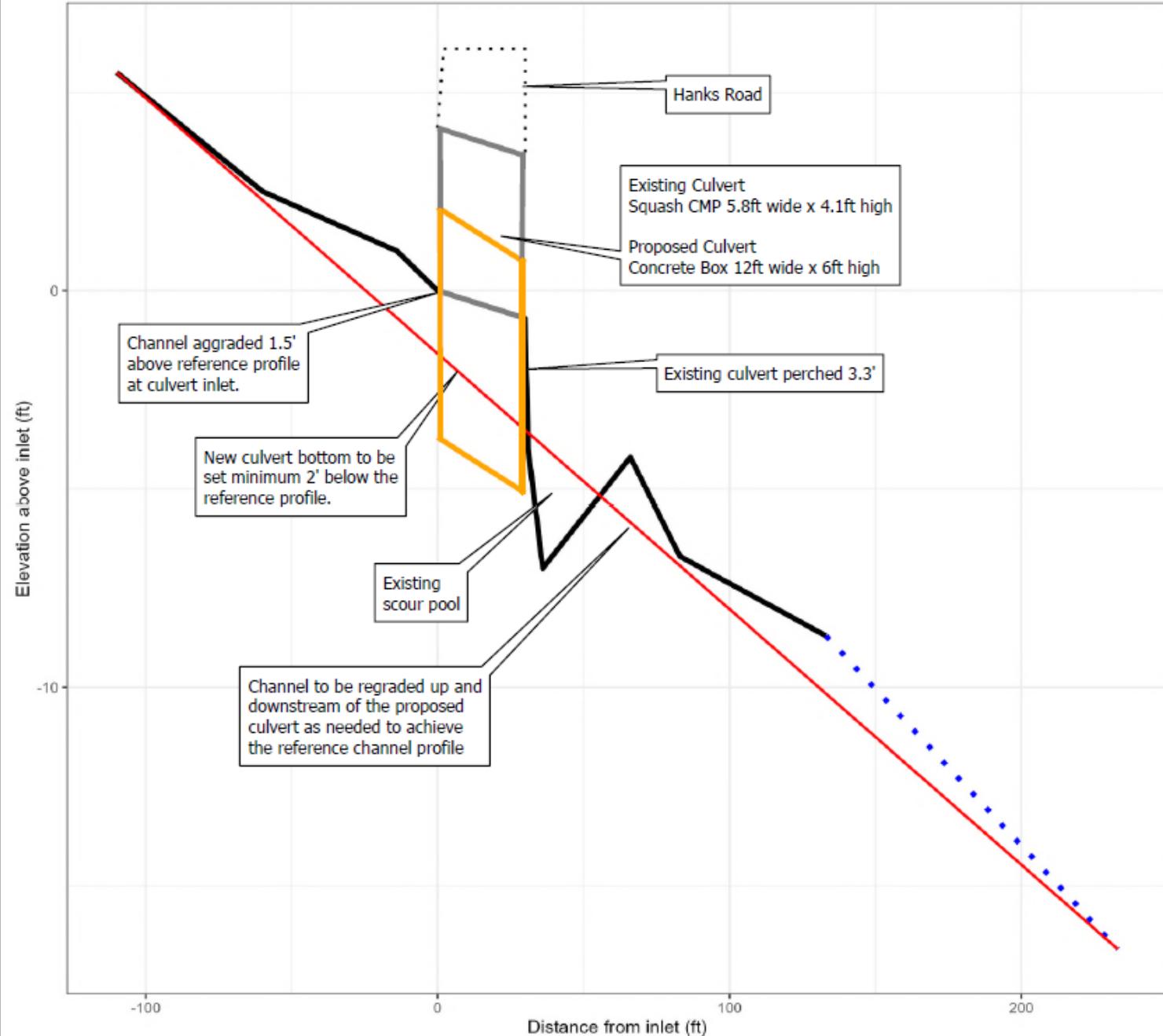
- Scoped in flood resiliency project in 2024 with preliminary design
- Undersized, perched
- Potential 5.5kg phosphorus/year
- AOP: 2-3 miles of headwater stream
- Culvert just downstream replaced in 2019
- Submitted as \$200k for LCBP Clean Water Oct 2025 – not funded
- Supported by Warren, local landowner





- 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

| | |
|---|---------------------------------------|
|  <p>Fitzgerald Environmental Associates, LLC 164 Main Street, Suite 2 Cochester, VT 05446 Telephone: 802.876.7778 www.fitzgeraldenvironmental.com</p> | |
| 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 | EPF |
| MAP BY | CHECKED |
| Not to Scale | |
| SCALE | |
| DATE | December 10, 2024 |
| 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

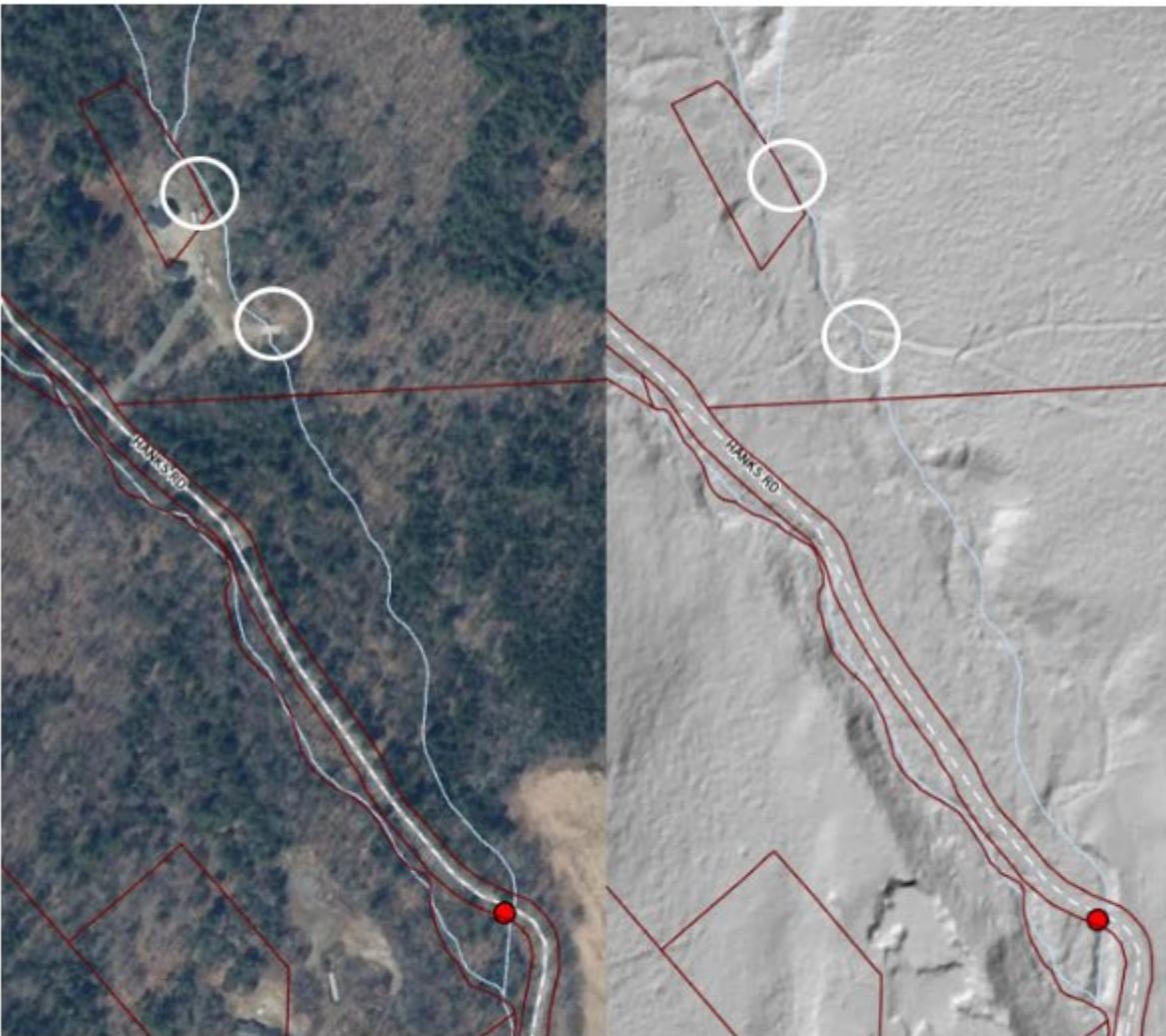
Task 5a - \$89,000 for construction mobilization and structure purchase

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