

Hardwick Projects after 2023 flooding event (7/3/24)

For the first three pre-applications, the following is needed:

Benefit Cost Analysis, Conceptual Designs, Engineering, and Detailed Project Budgets.

- **Pre-application** Flood Hazard Mitigation project – flood benches etc and bank stabilization for 223 Mill Street (Inn by the River parcel) – purchased by the Town of Hardwick with FRCF funds
 - **Pre-application** Flood Hazard Mitigation project – stabilize bank next to School Street in East Hardwick
 - **Pre-application** Flood Hazard Mitigation project – flood benches etc at a property below the downtown on the Lamoille River.
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- **Pre-application** Hazard Mitigation Grant – Generator in the EOC at the Police Station (Have conceptual designs and quotes).
 - Wastewater Treatment Facility Plant – elevation, movement, removal? (Damaged by Flooding – engineering in process)
 - Fire Station – elevation or removal from future Floodway mapping – MTAP grant is in place for scoping study to remove from the Floodplain/Floodway
 - 10 buyouts in process
 1. 4 through FRCF – already purchased by the town of Hardwick
 2. 6 through FEMA – still in process
 - Pre-application for 4 potential elevations of mobile homes (Floodway concerns) – separate funding source.
 - Possible planting project for the 4 FRCF parcels through Emily Finnegan – FPAC – NRCS VT
 - Possible flood hazard mitigation concepts for additional 6 parcels – not owned by Town at this time.
 1. 2 on Cooper Brook
 2. 3 adjacent and on Lamoille River – park?
 3. 1 on Lamoille River in center of Town.
 - Storm water/flood mitigation assistance for Granite Street Historic district – install backflow prevention devices for water in all homes, create more resilient yard and catch basins. At intersection of Cooper and Lamoille – more likely to be flooded.
 - Overarching watershed study requested for Cooper Brook from WFPO
 - EWP in process for 3 properties.
 - Clean-up of the Cooper Brook – Tires (from where?) Disposal
 - Porter Brook Box Culvert/Bridge over Hardwick Farms Road (FEMA)
 - Tucker Brook Bridge (currently has a temporary culvert) (FEMA)
 - East Main Street Bridge in East Hardwick – was removed due to possible impacts on surrounding properties. (FEMA)
 - Carey Road – Box culvert needs to be upsized to a Bridge
 - Dutton Road and Nichols Pond Road – 2 culverts that need to be upsized
 - Stage house Road – 2 culverts need to be upsized
 - Wolcott Street – 3 backflow storm water valves need to be installed to prevent water back-up from the Lamoille River

Hardwick Projects after 2024 flooding event (7/26/24)

- **URGENT** - Hays Service Station/Jiffy Mart has lost 100 feet of property, 3 vehicles were swept downstream, and 3 in-ground fuel tanks are now on the river edge. A 10,000 gallon tank is in place and filled with concrete.



The propane tank was removed on Thursday, July 11, 2024 as it was in imminent danger of falling into the Lamoille River. The continued erosion at this location is a threat to both the Hays Service Station but also the Hardwick downtown and the correlating Routes 14/15/16. This has been elevated to a State level emergency. **Temporary Bank Stabilization was done on July 24 -25 by Vtrans. Pre-application was invited to apply.**

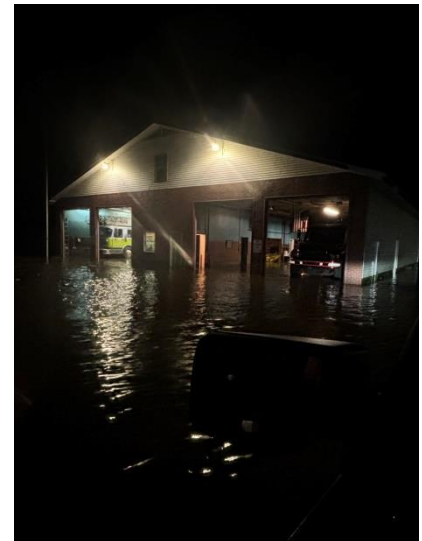
- **URGENT** - Parking Area for the Hardwick Inn/Mike's Service Station/Civic Standard all lost considerable retaining wall sections. Mike's Service Station will probably fall into the Lamoille River in the next heavy rain event.



NRCS Emergency Watershed Protection program has been contacted. But again, this would be a threat to these structures and to Hardwick downtown and the correlating Routes 14/15/16.

- Wastewater Treatment Facility Plant – Needs to be removed from Floodplain. (Damaged by flooding 2nd time in one year – engineering in process). Structure will receive a Substantial Damage Estimation next week – was Substantially Damaged last year and will probably be found to be Substantially Damaged again.

- Fire Station – Needs to be removed from future Floodway mapping (Damaged by flooding for 2nd time in one year – Trucks needed to be removed at 2 am) – MTAP grant is in place for scoping study to remove from the Floodplain/Floodway. Structure will receive a Substantial Damage Estimation next week – was Substantially Damaged last year and will probably be Substantially Damaged again. Fire equipment/trucks had to be removed at 2 am to ensure that they were not damaged.
- Debris clean-up will need to occur
 1. On Route 16 near the impacted State Bridge (impacts Lamoille River)
 2. Near Ann Gilcris on Route 15 West – both Ann’s property and the property upstream from Ann (Melissa Blair)
- 13 Damaged Roads/Culverts
 1. Kate Brook Road (in process – may need new culvert)
 2. Belfry Road – asphalt damaged
 3. Bunker Hill Road (bottom and close to 787) (Almost complete – 7/25)
 4. Smith Farm Road (One lane open – 7/25)
 5. Culvert near Yellow Barn/LVRT/Lamoille Valley Ford is damaged
 6. Dutton Road (culvert that needs to be upsized) (Done – 7/25)
 7. Nichols Pond Road (culvert that needs to be upsized) (Done – 7/25)
 8. Stage House Road (2 culverts need to be upsized) (Road fixed – 7/25)
 9. Sawmill Lane lost gravel
 10. Demers sugar house road damaged again
 11. Wright Farm Road/Yellow Barn parking (State working on – 7/25)
 12. Stannard Mtn Road is partially owned by Hardwick – road & river edge (Road done – 7/25)
 13. Tucker Brook
- 6 bridges are out
 1. Tucker Brook (From 2023 – Temporary held in 2024)
 2. Carey Road box culvert/bridge - gone
 3. Riverside Farms bridge is gone. Access over Rail Trail. (Urgent)
 4. Fisher’s Folly bridge is damaged. No access. (Urgent)
 5. Hardwick Farm Road bridge - damaged (incl. temporary bridge) (Ready for culverts 7/25)
 6. E. Main Street, East Hardwick Bridge was removed in the spring (Damaged in 2023) (FEMA)
- 10 buyouts arranged after July 2023 flooding – All 10 structures were impacted again. May be Substantially Damaged by the additional 2024 flooding.
 1. 4 through FRCF – already purchased by the town of Hardwick
 1. 223 Mill Street – Structure was removed on Wednesday, July 10. Water consumed the site and would have taken the remaining structure down the Lamoille River
 2. 2832 Craftsbury Road – Structure was removed prior to July 10, 2024. Water consumed the site and would have destroyed the home for the second time in a year.
 3. 387 Carey Road – Scheduled to be removed on Thursday, July 11. House is now tipping into the water course. Will be removed as soon as possible (has been removed).
 2. 6 through FEMA – still in process



1. 161 VT Route 14 South – Flooded to first floor (Cooper Brook)
2. 115 VT Route 14 South – Flooded in first floor (Cooper Brook)
3. 24 Sawmill Lane – Flood moved the Home off of its supporting blocks (Lamoille River)
4. 5 Sawmill Lane – Flooded on first floor (Lamoille River)
5. 444 Wolcott Street – Flooded on first Floor (Lamoille River)
6. 41 Brush Street – further undermined and leaning dangerously into the river (Lamoille River)



- Will Hardwick purchase any additional properties after this flood? Select Board voted to allow requests – 8 have been received – 7/25/24.

- 8 properties have requested elevation assistance – 3 on the Lamoille River and 4 on Cooper Brook. New funding source has been located from the State of Vermont. Planning and access to this funding has begun to be released.



- Storm water/flood mitigation assistance for Granite Street Historic district – install backflow prevention devices for water in all homes, create more resilient yard and catch basins.



At intersection of Cooper and Lamoille – this section is more likely to be flooded. This area of Hardwick received higher amounts of flooding. Neighborhood focused response – Sump pump was purchased by

one resident (\$1200) and utilized by several homes. A complete review of this historic residential section was on the list after 2023 but needs to be prioritized.



- Dry and wet Floodproofing assistance for the Wolcott Street business and residential district. From Choice Realty down to the intersection of Route 14/15.

Businesses and Multi-units

1. Choice Realty (no impact in this flooding)
2. Northeast Service Station (no impact in this flooding)
3. Riteway Sports (minimal basement flooding) – needed to use Sump Pump to keep the water from basements on Cottage and Granite Streets from entering structure
4. 18 Granite Street Multi-unit (basement flooding)
5. House of Pizza (Flooded)



7. Perry (Flooded)
Paul Davis Restoration (2 buildings – both flooded)
8. Stratton Log yard (flooded) (relocation?)
9. Poulin Lumber (Basement/foundation – major damage))
10. Union Bank (not flooded)
11. Aubuchon (not flooded)
12. Walgreens (flooded)
13. Tops (flooded)
14. Community Bank (flooded)
15. Caja Madera/Dona's (flooded)
16. Lamoille Valley Ford (flooded)
17. Yellow Barn and rail trail parking (flooded)
18. Kwik Stop (not verified)
19. New England Auto Glass (flooded)

Residential

1. 296 Wolcott – 6 feet in the basement – Historic – partially floodproofed, cannot be elevated.
 2. 301 Wolcott – basement flooding – Historic – partially floodproofed, cannot be elevated
 3. Nichols on Wolcott – requested elevation assistance
 4. 5 Sawmill Lane already in the FEMA buyout program from 2023
 5. Devenger – already in the FEMA buyout program from 2023
 6. 24 Charlevoix Street – water in the basement. Pumped out by the Town.
- Wolcott Street – 3 backflow storm water valves need to be installed to prevent water back-up from the Lamoille River
 - **Pre-application** Flood Hazard Mitigation project – flood benches etc and bank stabilization for 223 Mill Street (Inn by the River parcel) – (purchased by the Town of Hardwick with FRCF funds). Above Hardwick downtown on the Lamoille River. (First item – Urgent) (RIVER?)
 - **Pre-application** Flood Hazard Mitigation project – stabilize bank next to School Street in East Hardwick (Further erosion occurred in 2024 flooding). Application has been requested by State – 7/25/24
 - **Pre-application** Flood Hazard Mitigation project – flood benches etc at a property below the downtown on the Lamoille River. (Near the intersection of Cooper Brook and the Lamoille River) (RIVER?)
 - Overarching watershed study has been requested for Cooper Brook from WFPO
 - Possible flood hazard mitigation concepts for additional 6 parcels – not owned by Town at this time.
 1. 2 on Cooper Brook
 2. 3 adjacent and on Lamoille River – park? (Caledonia County NRCS would like to oversee)
 3. 1 on Lamoille River in center of Town.
 - **Pre-application** Hazard Mitigation Grant – Generator in the EOC at the Police Station (Have conceptual designs and quotes).
 - Long-Term Community Recovery Plan was in initial phases after 2023 flooding. Will be even more important with the 2024 flooding.
 - VCRD was scheduled to work with Neighbor to Neighbor and the Town to create a local partner's version to the LEMP. This will be even more important. In process – 7/25/24

- Create and store a supply center that is ready to go – cleaning kits, dehumidifiers, sump pumps, fans, safety suits, masks, protective glasses, etc. Hazen has offered a location for a shipping container for storage. Possible regional approach – serve as Hub for local towns. July 2024 supply center was utilized by Walden, Wolcott, Stannard, Greensboro, and Woodbury.