Greensboro, Vermont

May 18, 2026

Choosing Flood Resilience

Ned Swanberg

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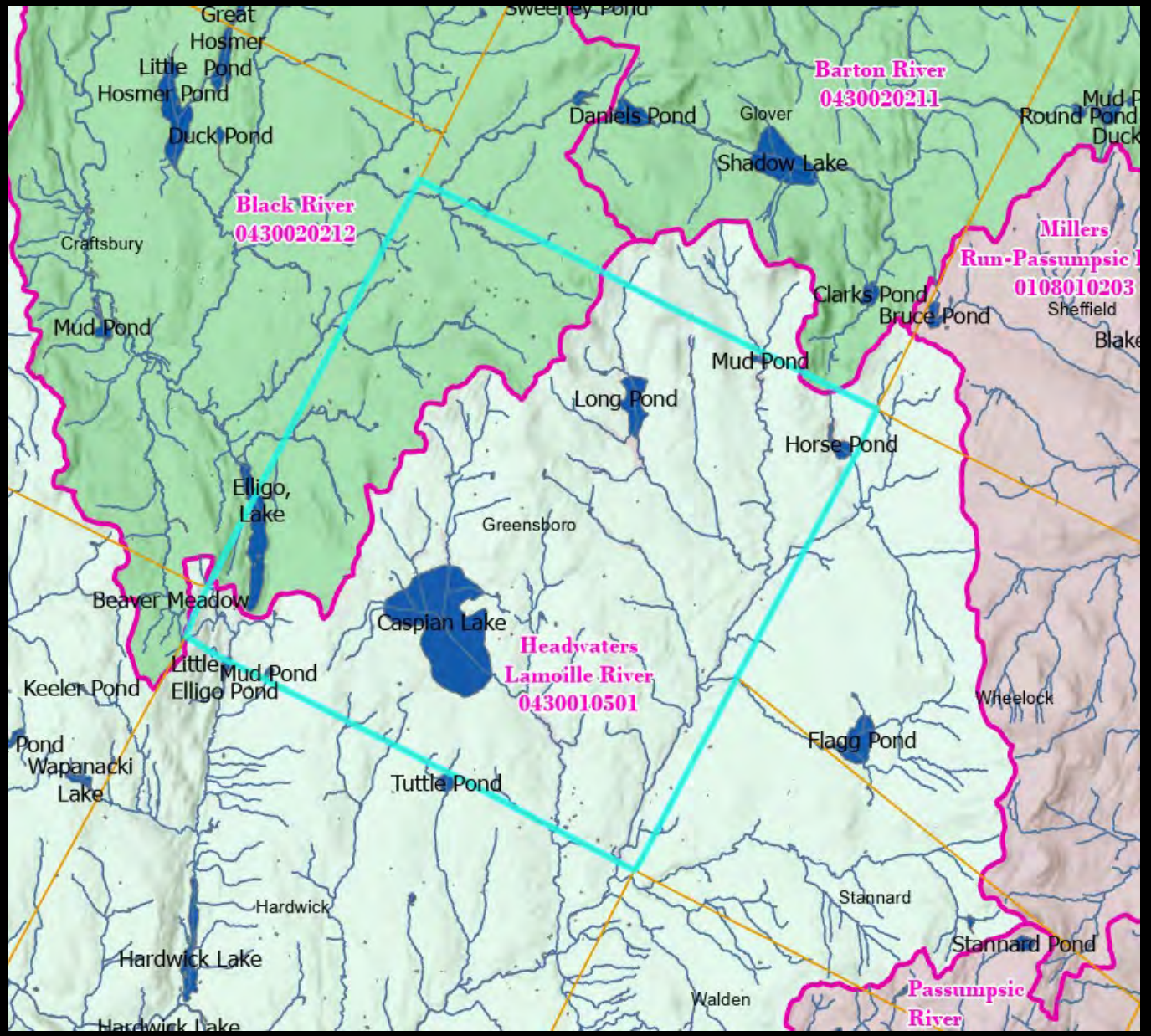
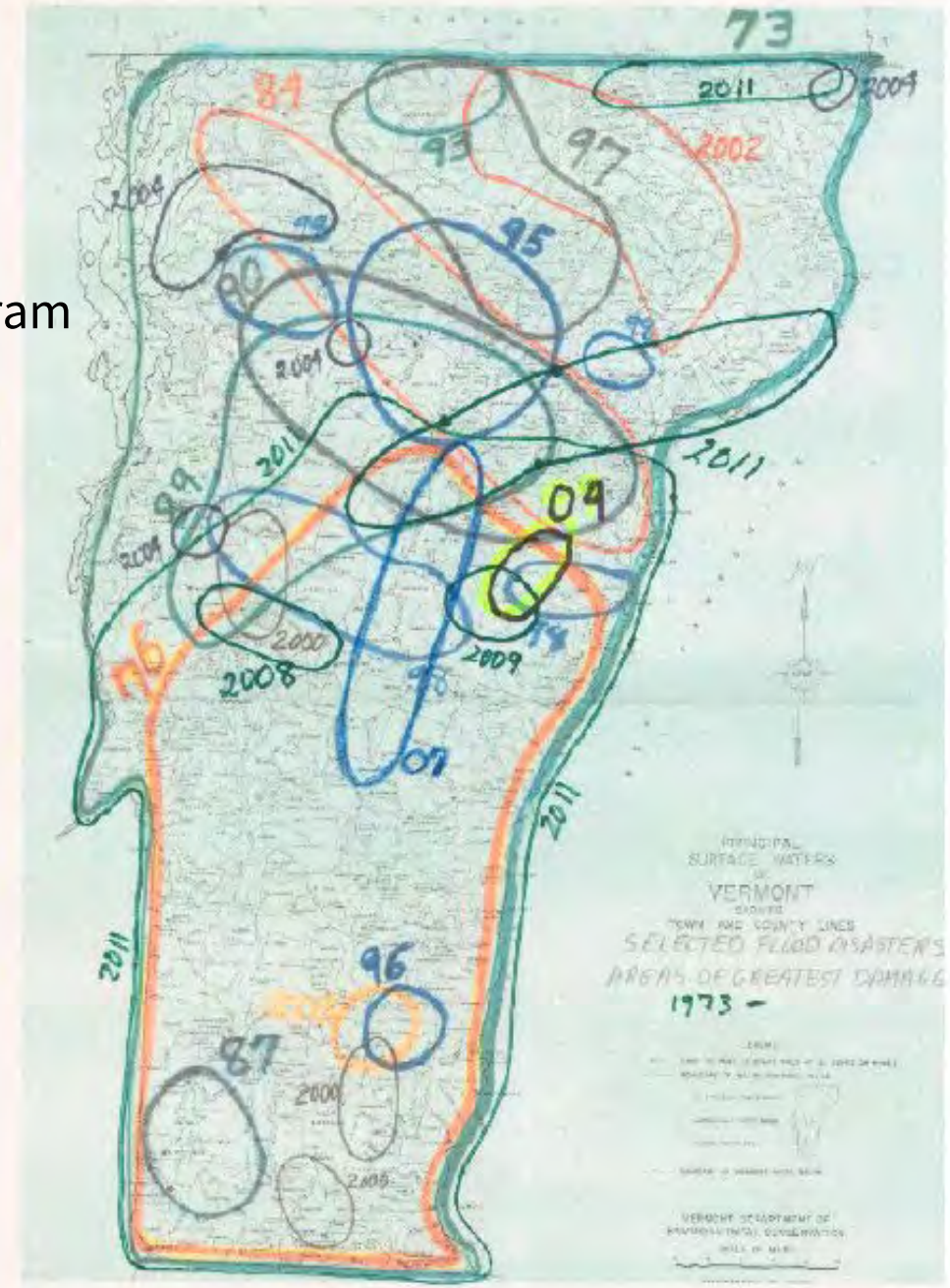

Great
Hosmer
Little Pond
Hosmer Pond
Duck Pond
Sweeney Pond
Barton River
0430020211
Daniels Pond
Glover
Shadow Lake
Round Pond
Black River
0430020212
Craftsbury
Millers
Run-Passumpsic
0108010203
Clarks Pond
Bruce Pond
Sheffield
Mud Pond
Mud Pond
Long Pond
Horse Pond
Elligo,
Lake
Greensboro
Beaver Meadow
Caspian Lake
Headwaters
Lamoille River
0430010501
Little Mud Pond
Elligo Pond
Keeler Pond
Wheelock
Flagg Pond
Pond
Wapanacki
Lake
Tuttle Pond
Hardwick
Stannard
Hardwick Lake
Stannard Pond
Walden
Passumpsic
River

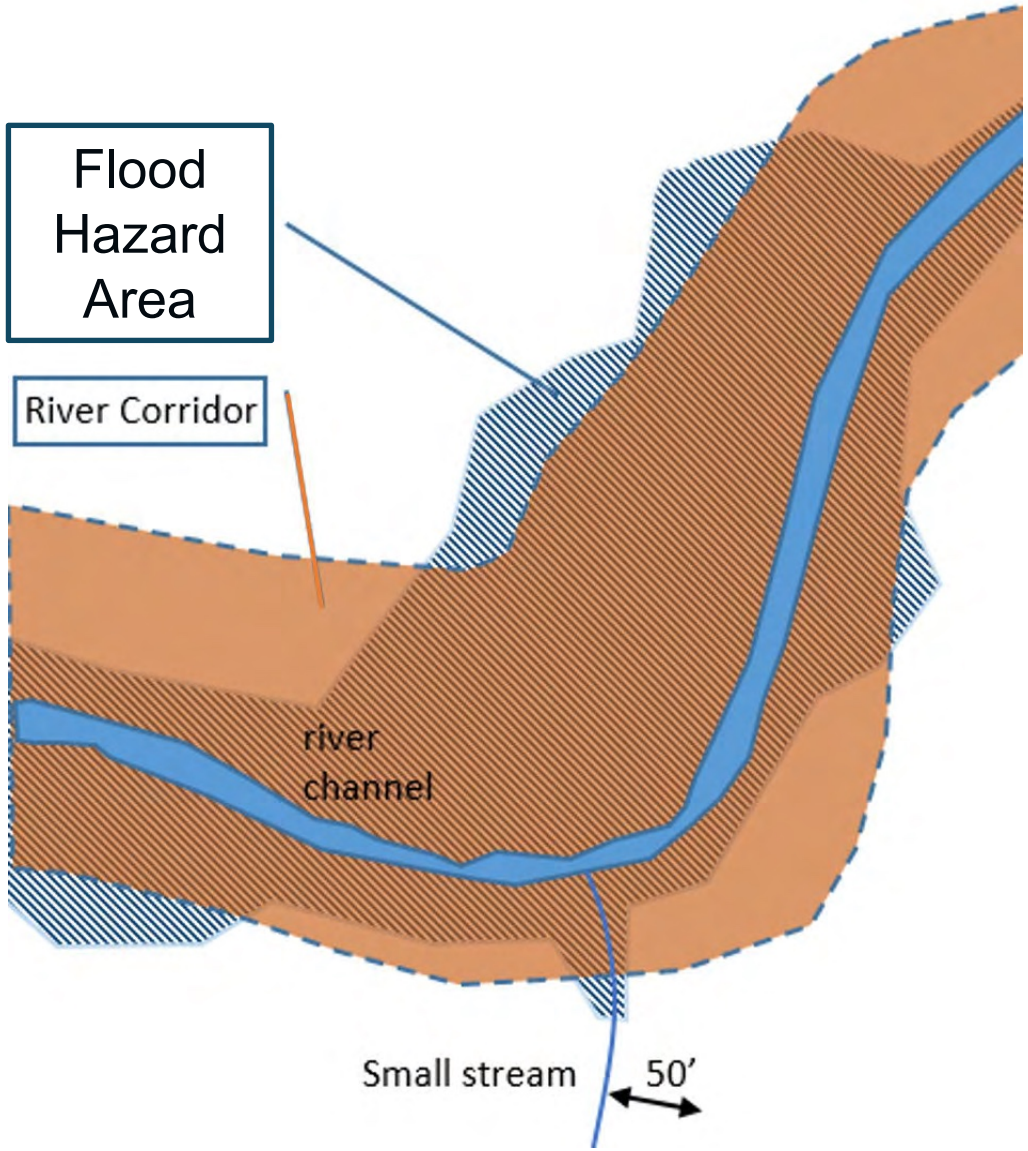
Greensboro

7/19/1974 – Flood Hazard Boundary Map
9/27/1985 –Joined National Flood Insurance Program

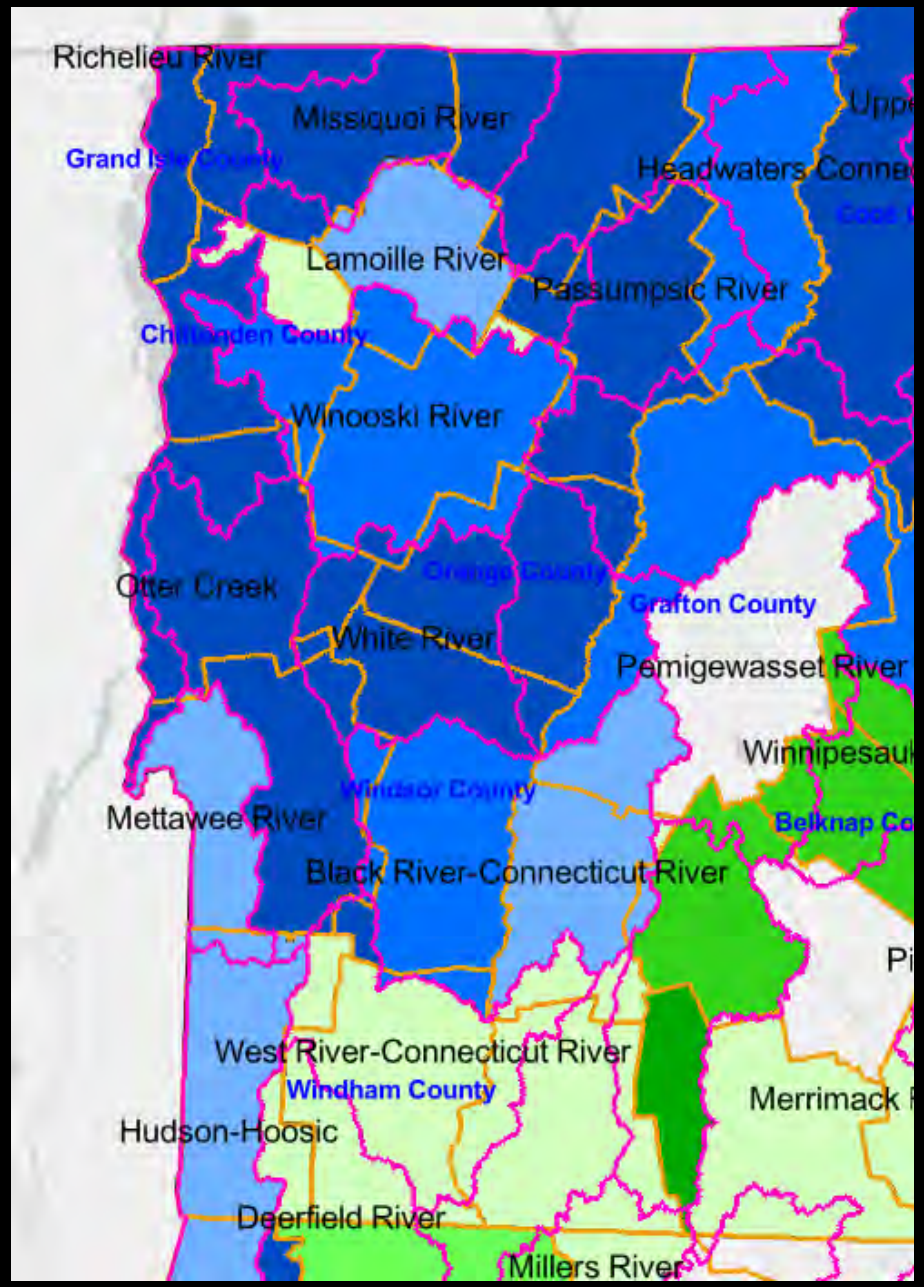


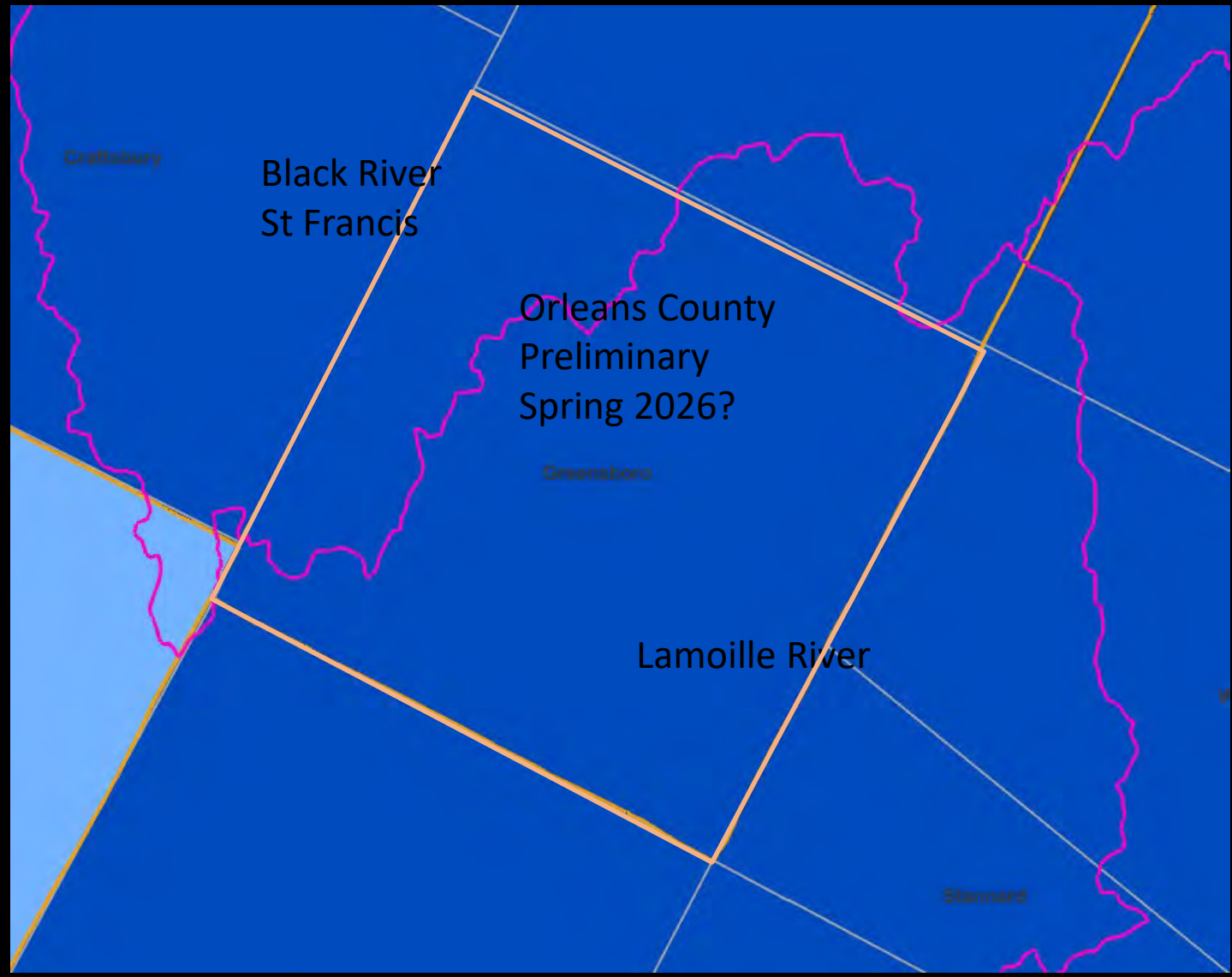
- *Protect our communities*
- *Protect the room needed by the river*
- *Protect floodplain functions*

- ***No adverse impact***



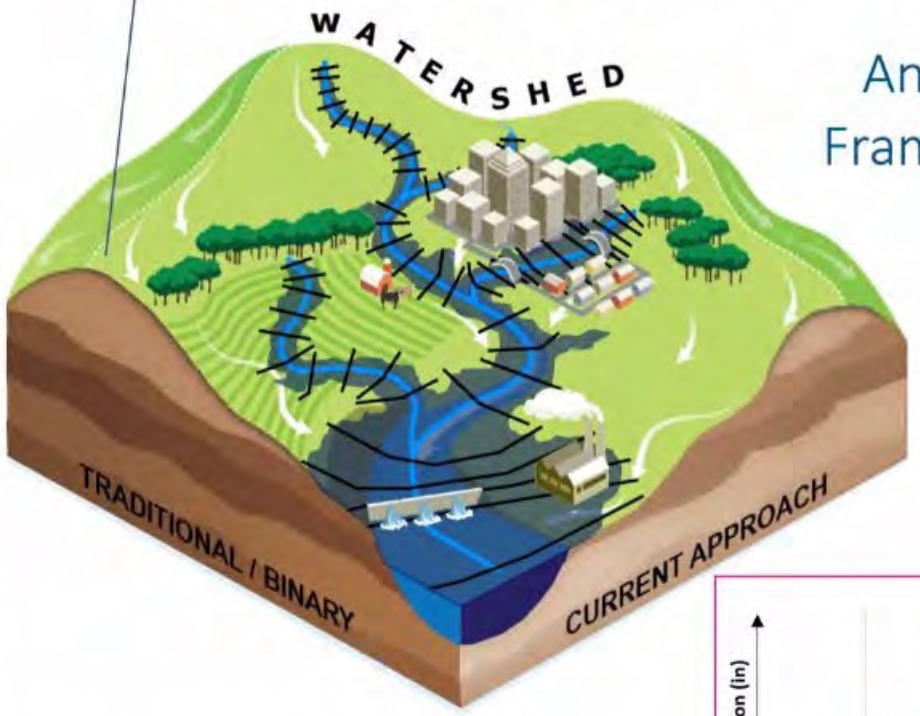

Terry Allen
Terry L Allen

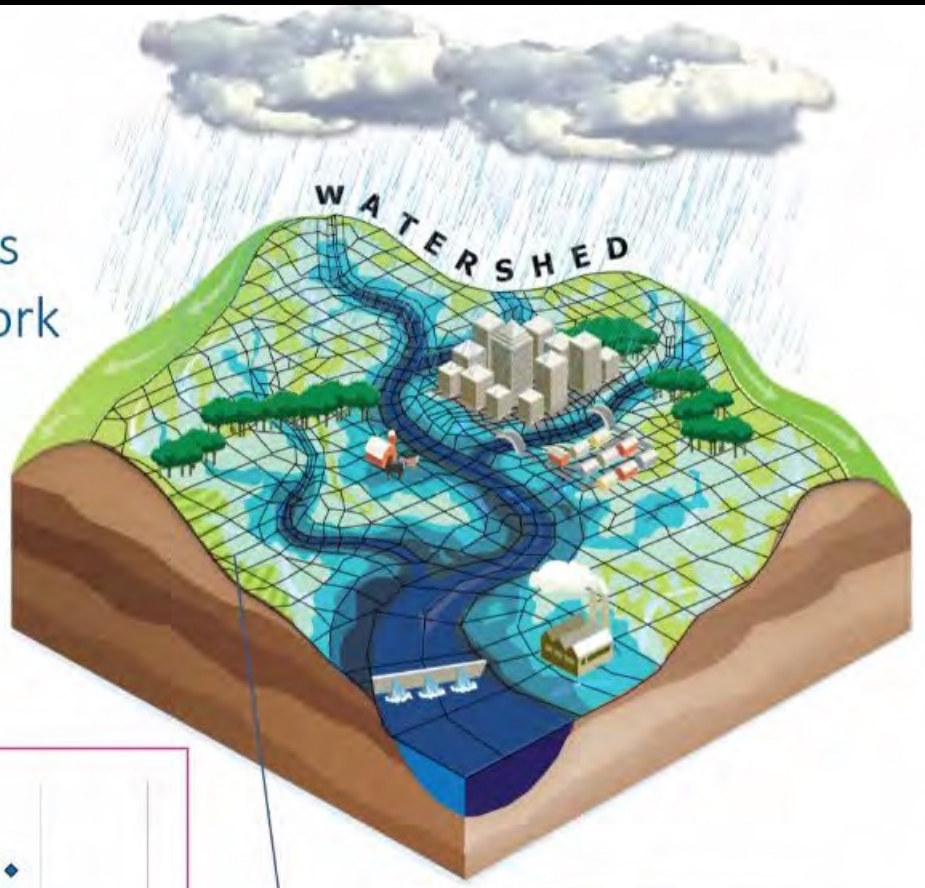

Richelieu River
Missisquoi River
Grand Isle County
Headwaters Conne
Lamoille River
Passumpsic River
Chittenden County
Winooski River
Otter Creek
Orange County
Grafton County
White River
Pemigewasset River
Winnipesaukee
Windsor County
Belknap Co
Mettawee River
Black River-Connecticut River
West River-Connecticut River
Windham County
Merrimack
Hudson-Hoosic
Deerfield River
Millers River

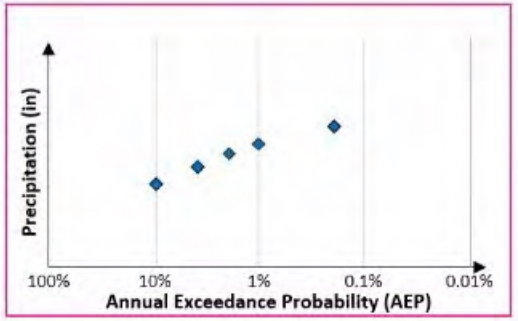

Black River
St Francis
Orleans County
Preliminary
Spring 2026?
Lamoille River

Analysis Framework

- 1D Modeling
- Fluvial flooding only
- Event-based analyses

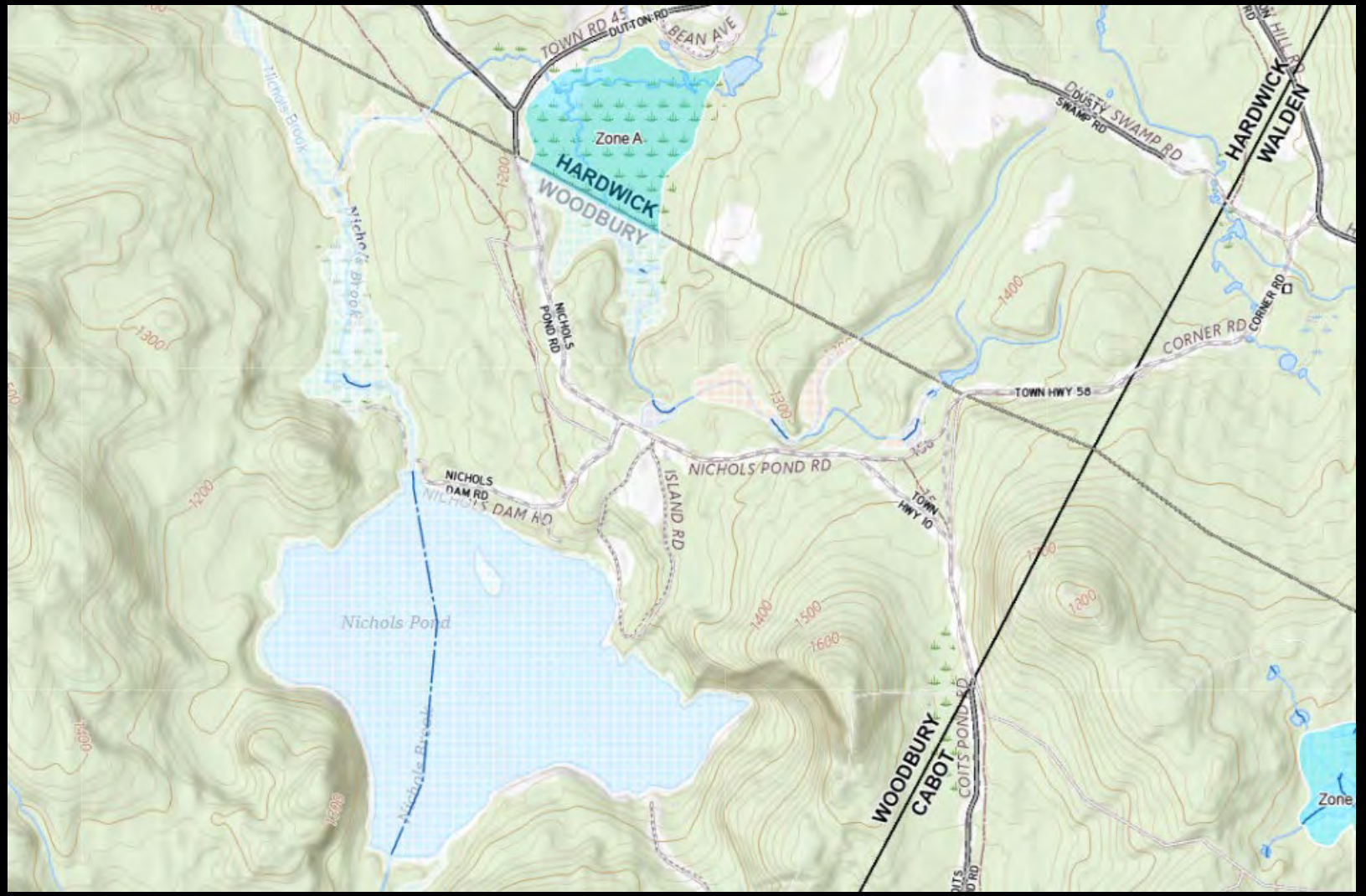




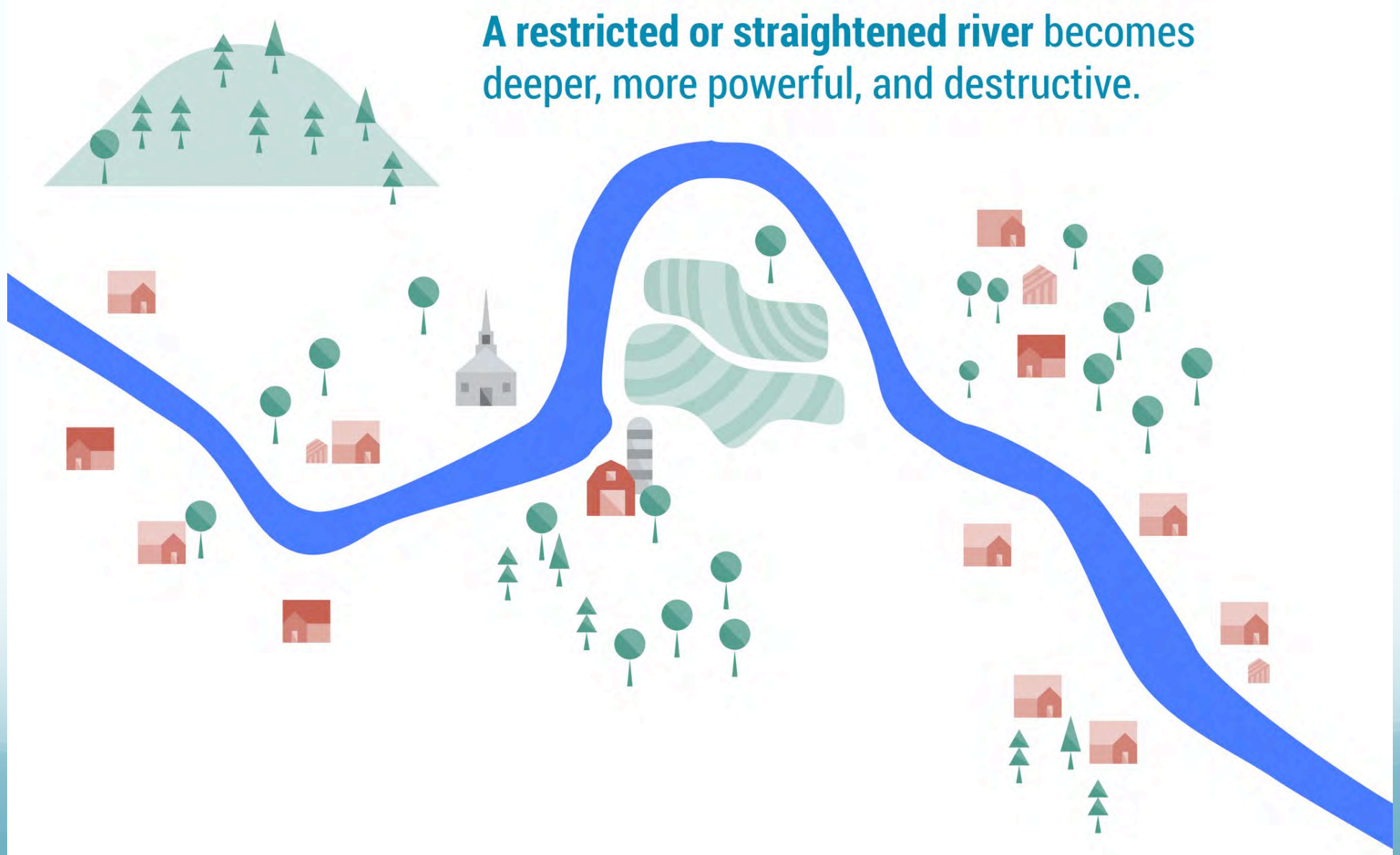


- 2D Modeling
- Fluvial and pluvial flooding

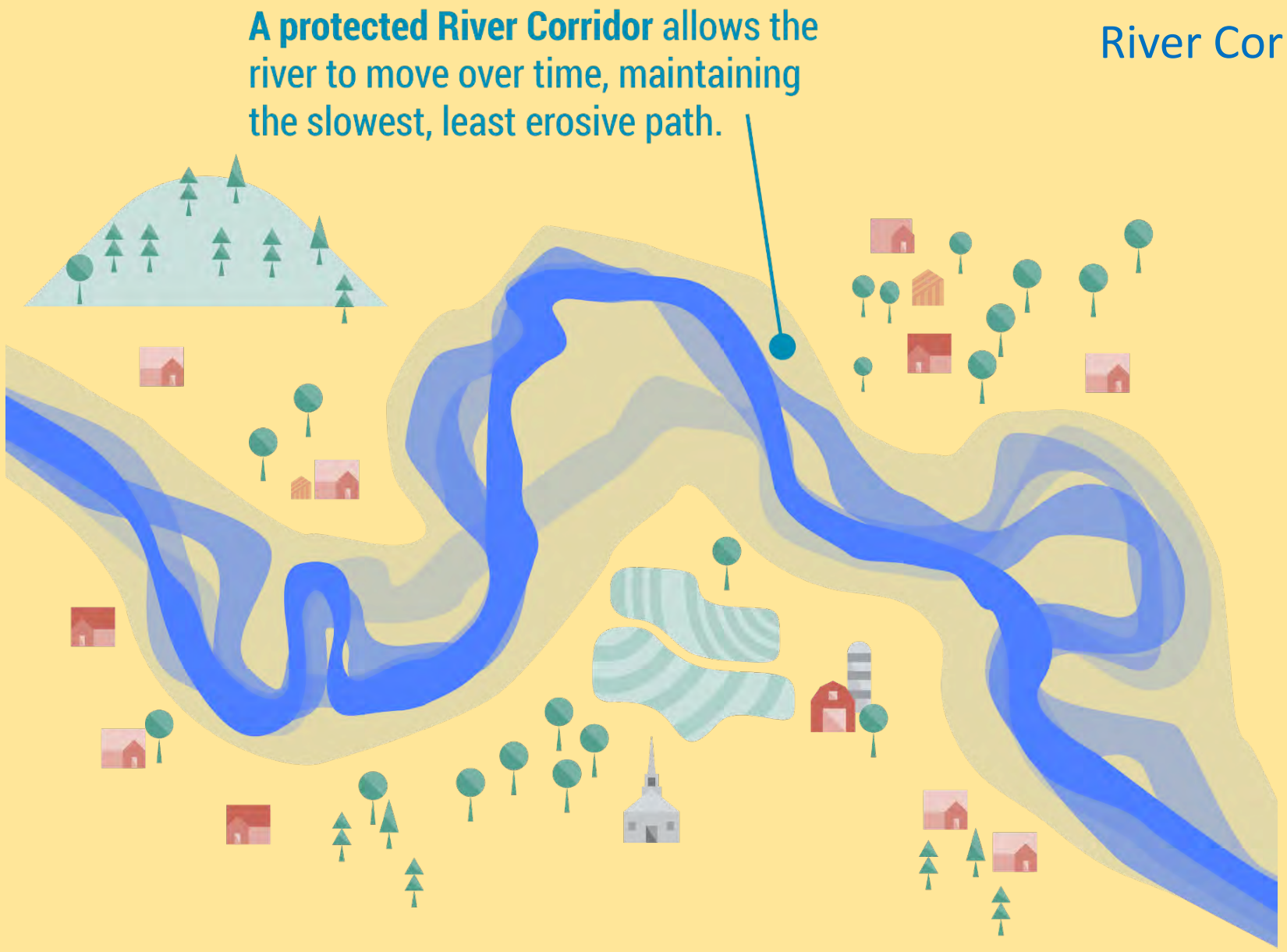
Inland/Riverine Flooding Examples


TOWN RD 45
DUTTON RD
BEAN AVE
Zone A
HARDWICK
WOODBURY
Nichols Brook
NICHOLS POND RD
DUSTY SWAMP RD
HARDWICK
WALDEN
CORNER RD
TOWN HWY 58
NICHOLS DAM RD
ISLAND RD
TOWN HWY 10
Nichols Pond
WOODBURY
CABOT
COITS POND RD
Zone


Base Flood Elevation ?


A restricted or straightened river becomes
deeper, more powerful, and destructive.

River Corridors protect us.



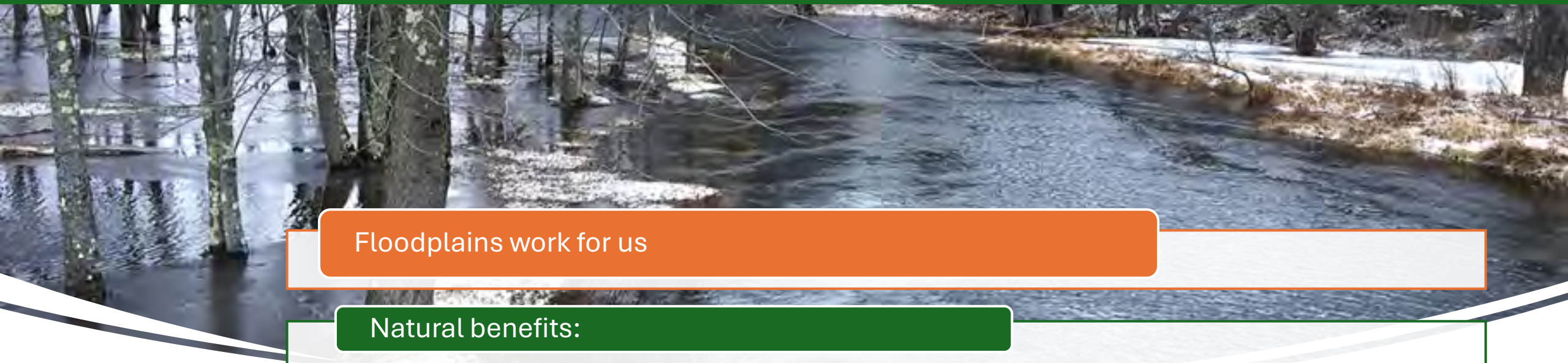
Why Protect River Corridors?

1. Avoid the liability of putting people in harm's way in a known hazard area.

2. Avoid new encroachments that will require bank armoring, and result in straightening the channel, increasing the erosive power of floodwater and delivering deeper water sooner downstream.

3. Avoid forcing the channel to cut down until the nearby riverbanks fail along with adjacent town roads, residences, workplaces and critical services.

4. Avoid increasingly costly damages to town roads, culverts, bridges and services.



Floodplains work for us

Natural benefits:

- Store floodwaters
- Reduce flood depths and erosive power
- Recharge groundwater
- Clean water (traps sediment)
- Wildlife habitats
- Community values

Flood Hazard and River Corridor Bylaw

I. Statutory Authorization and Effect

II. Purpose

III. Summary Table: Development Review in Hazard Areas

IV. River Corridor Protection

V. Flood Hazard Area Protection

VI. Other Provisions

VII. Administration

VIII. Definitions

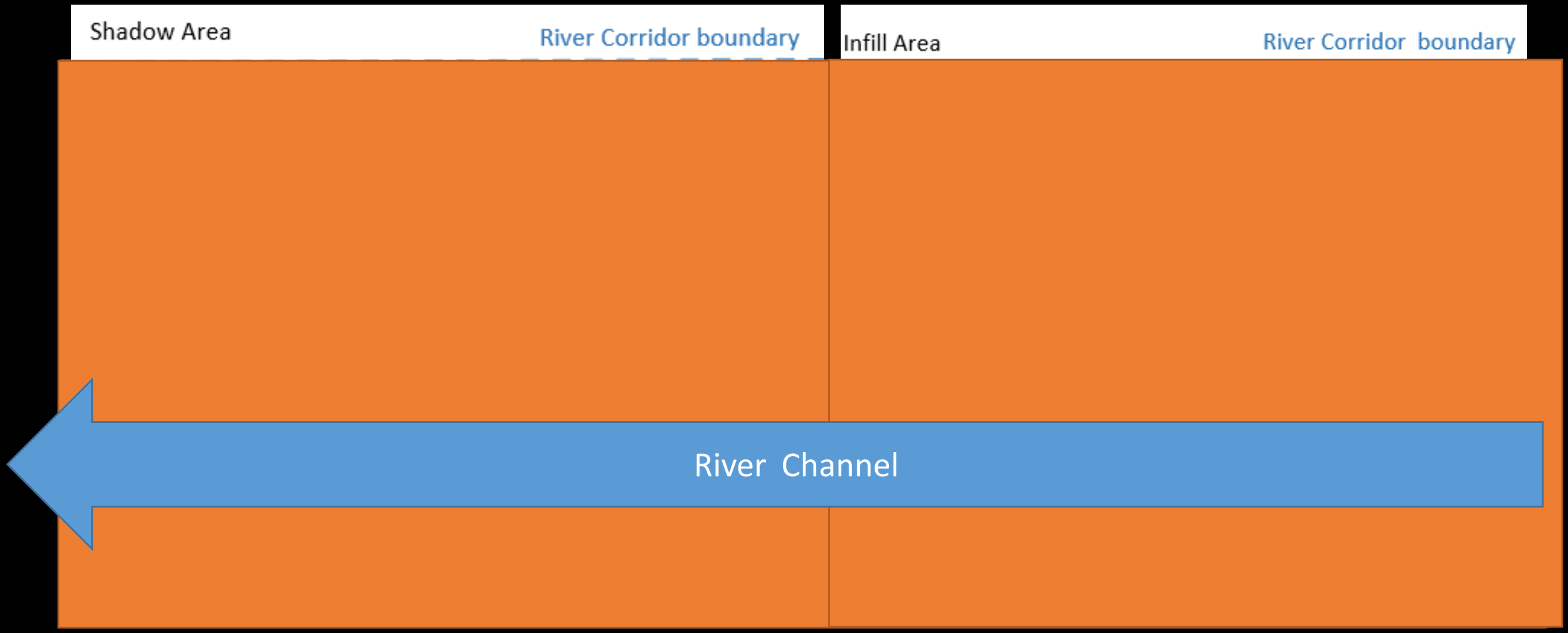
No Adverse Impact
bit.ly/model-regulations

Within the River Corridor don't build closer than what's already there.

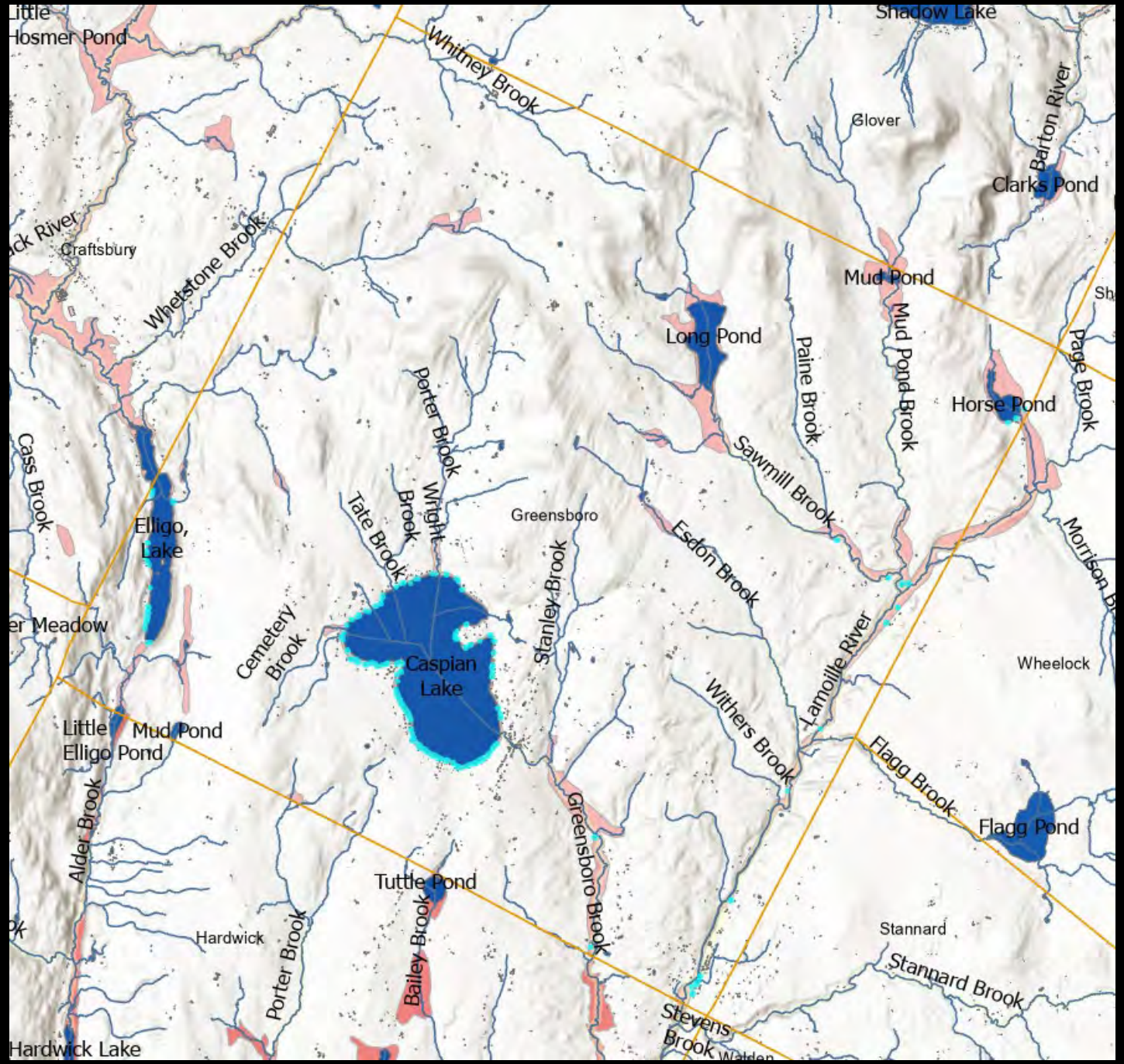
No new fill in the mapped Flood Hazard Areas.

Lowest Floor Elevation at least two feet above the base flood.

No Adverse Impact on River Corridor Functions

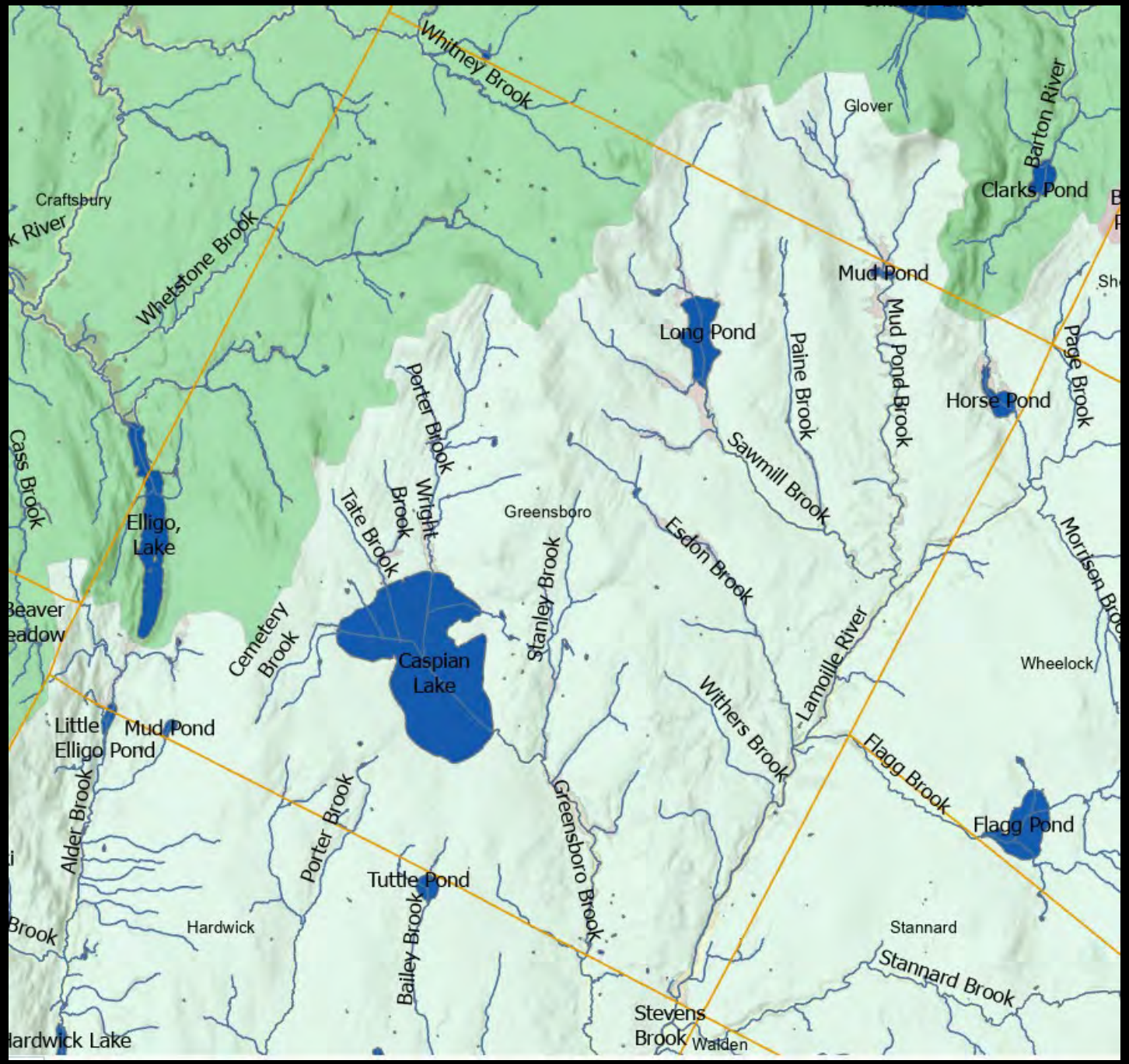



Allen



Rough Current/ Effective
FIRM 1985, (FHBM 1974)

River Corridors (2019)



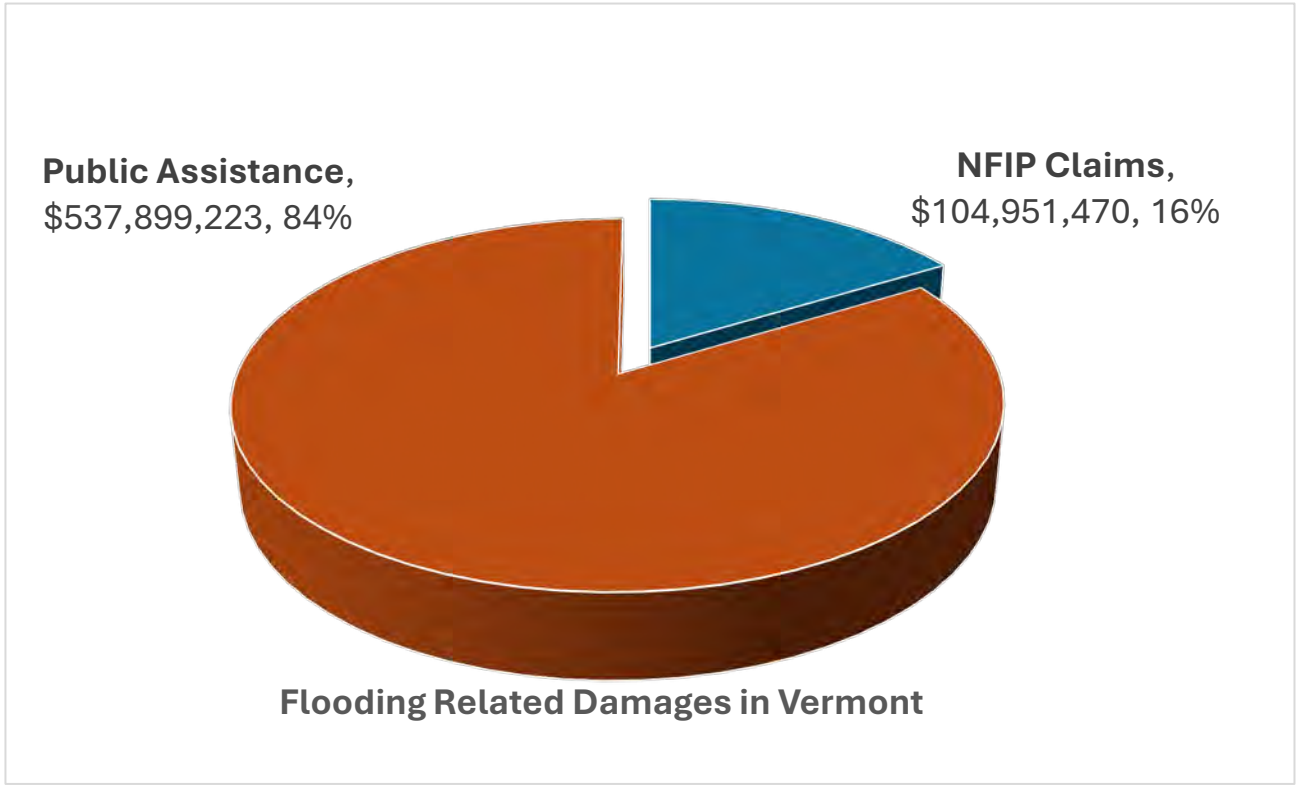
Draft Work Map FIRM (4/2025)

River Corridors (2019)

On the (very rough) effective FIRM there are about 174 structures in Special Flood Hazard Areas in Greensboro.

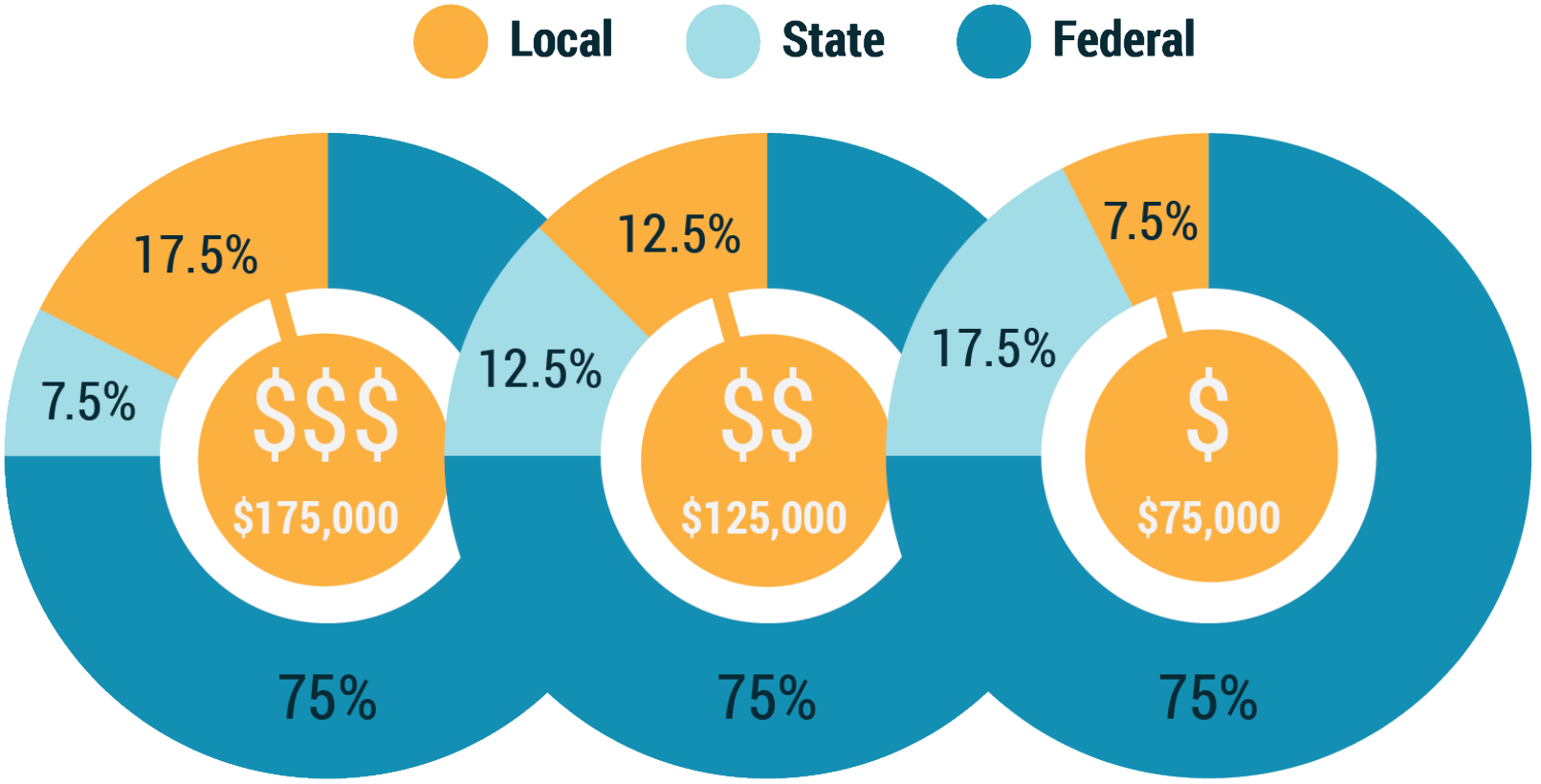
Three Quarters (127) are by Caspian Lake.

On the new draft Work Maps
there are 31 in total. 16 by Caspian Lake.



Data as available: PA data (12/2010 to 9/2024 for Flooding, Severe Storms, Hurricane) and NFIP data from 1970 to 12/2/2025

Emergency Relief and Assistance Fund (ERAF) Rates



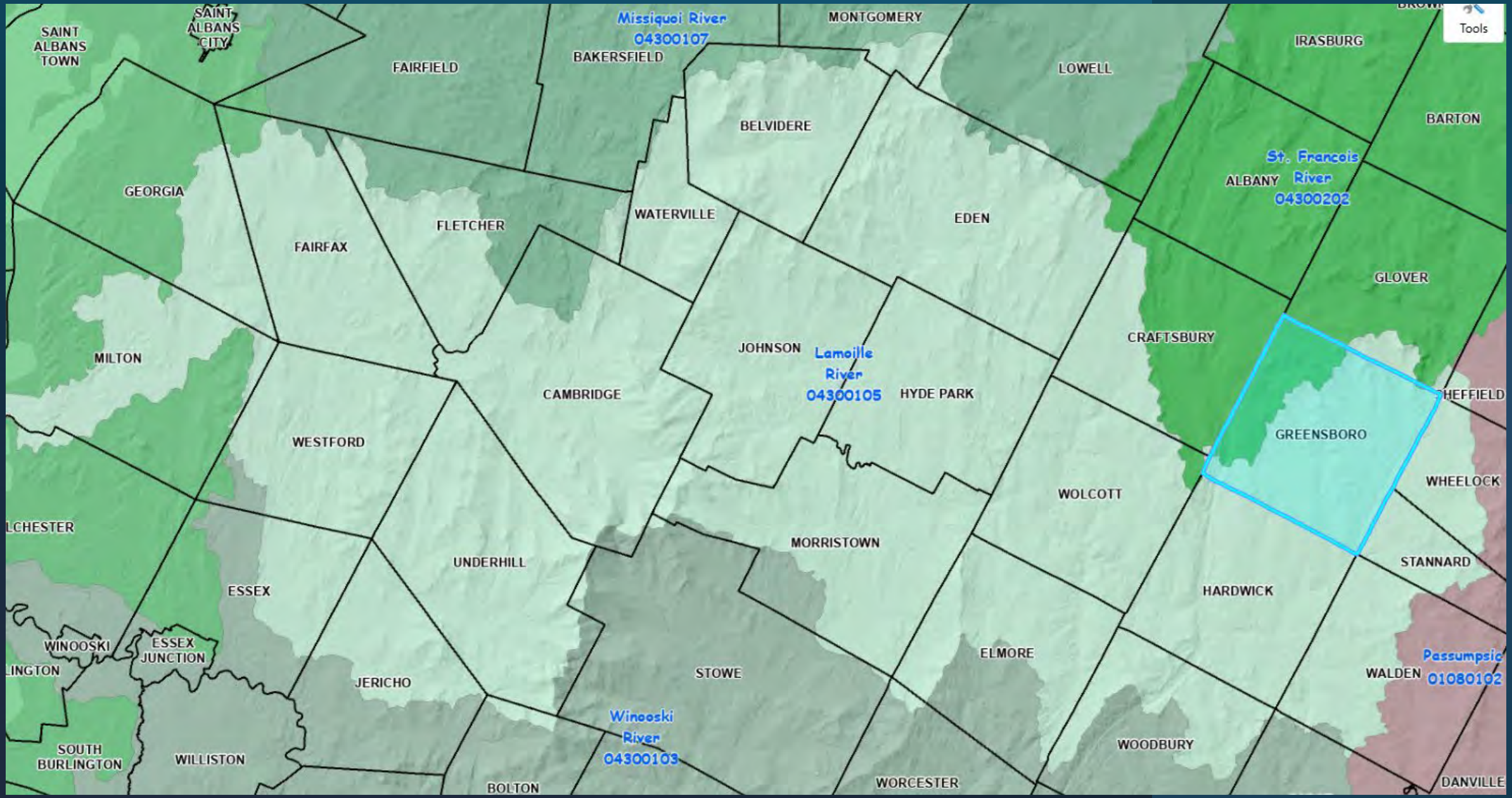
No Mitigation Measures Adopted

NFIP, LEOP, LHMP, Road & Bridge Standards

NFIP, LEOP, LHMP, Road & Bridge Standards, + River Corridor Protection

In the event of a $1,000,000 recovery project, the dollar value shown would be the town's responsibility.


Allen


SAINT ALBANS TOWN
SAINT ALBANS CITY
FAIRFIELD
Missiquoi River
04300107
BAKERSFIELD
MONTGOMERY
LOWELL
IRASBURG
BARTON
BELVIDERE
St. Francois
ALBANY River
04300202
GEORGIA
FLETCHER
WATERVILLE
EDEN
FAIRFAX
GLOVER
CRAFTSBURY
JOHNSON
Lamoille
River
04300105
MILTON
CAMBRIDGE
HYDE PARK
GREENSBORO
WESTFORD
WOLCOTT
WHEELOCK
MORRISTOWN
UNDERHILL
STANNARD
ESSEX
HARDWICK
WINOOSKI
ESSEX
JUNCTION
ELMORE
Passumpsic
01080102
JERICHO
STOWE
WALDEN
Winooski
River
04300103
SOUTH
BURLINGTON
WILLISTON
WOODBURY
BOLTON
WORCESTER
DANVILLE
Tools

Flood Safety Act of 2024

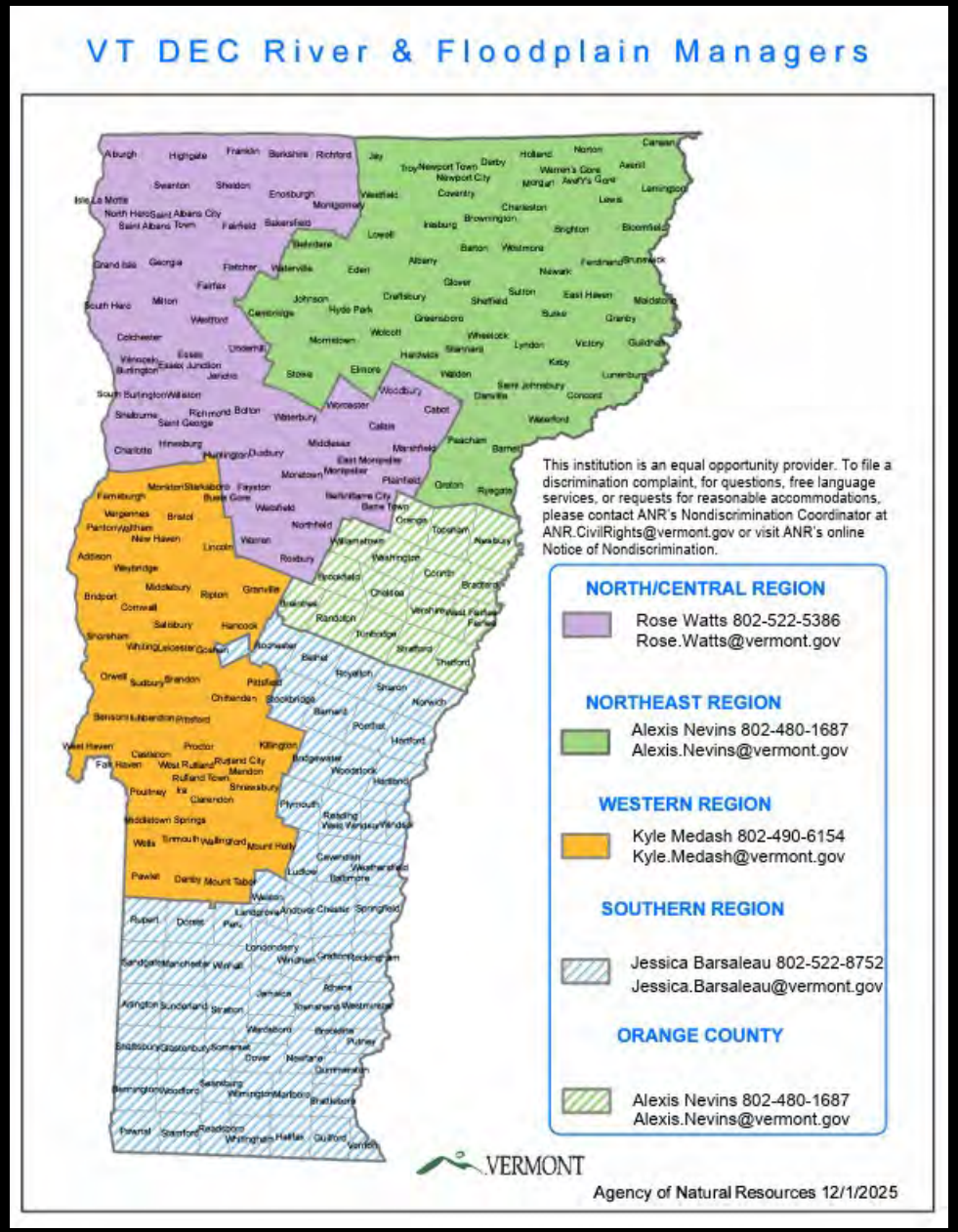
River Corridors and Floodplains

1. Protect Mapped River Corridors

- State permit for development in Mapped River Corridors
- January 1, 2028

2. Stronger minimum standards for development in floodplains

- No adverse impact standards
- Municipal permit
- January 1, 2028



bit.ly/flood-manager

Alexis.Nevins@vermont.gov