

Isinglass River Management Plan

Figure 9

Fluvial Erosion & Flooding Hazards

Legend

- Watershed Boundary
- Isinglass River Corridor
- Isinglass River
- 20ft Contours
- >25%
- FEMA 100-year Floodplain
- Fluvial Erosion Hazard Zones**
- Sensitivity Ratings**
- Moderate
- High
- Very High
- Extreme

Sensitivity Ratings Defined

For each river reach, a suite of river feature data are collected to determine the river channel's sensitivity to future change as a result of high flow events. Sensitivity for a reach can be in any one of six categories, based on its condition, ranging from Very Low to Extreme, with the categories of Low, Moderate, High, and Very High in between.

A rating of "Very Low" is typically found in a bedrock gorge, where the flow path will not change on time scales of concern to people. Conversely, a rating of "Extreme" means a reach that is experiencing considerable erosion of its beds and banks, and typically has flood chutes and meander cutoffs that increase the potential for changing flow paths and further erosion during a large flood.

The Isinglass River does not have any Low or Very Low ratings, which suggests that conditions are conducive to future bank erosion during and after floods.

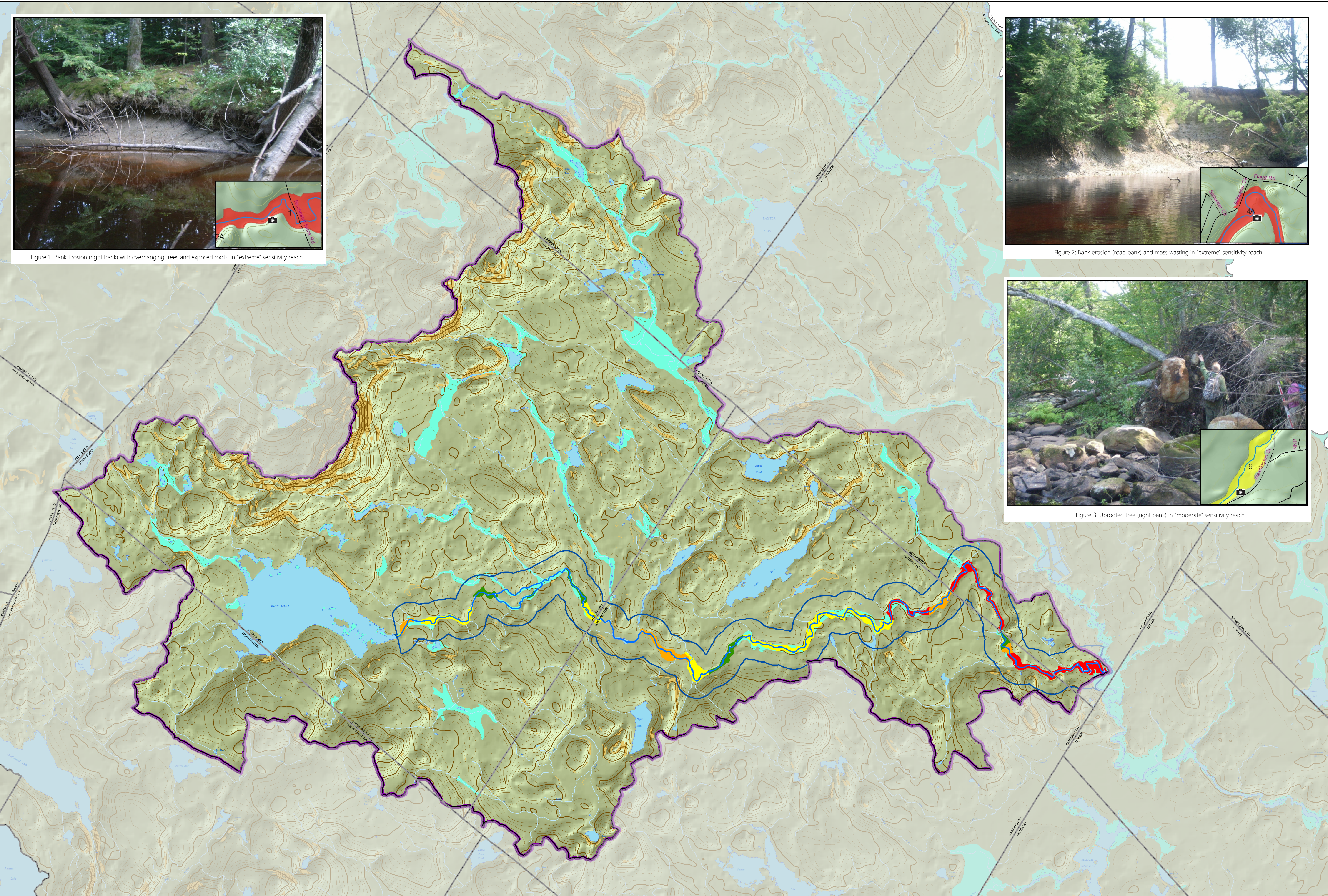
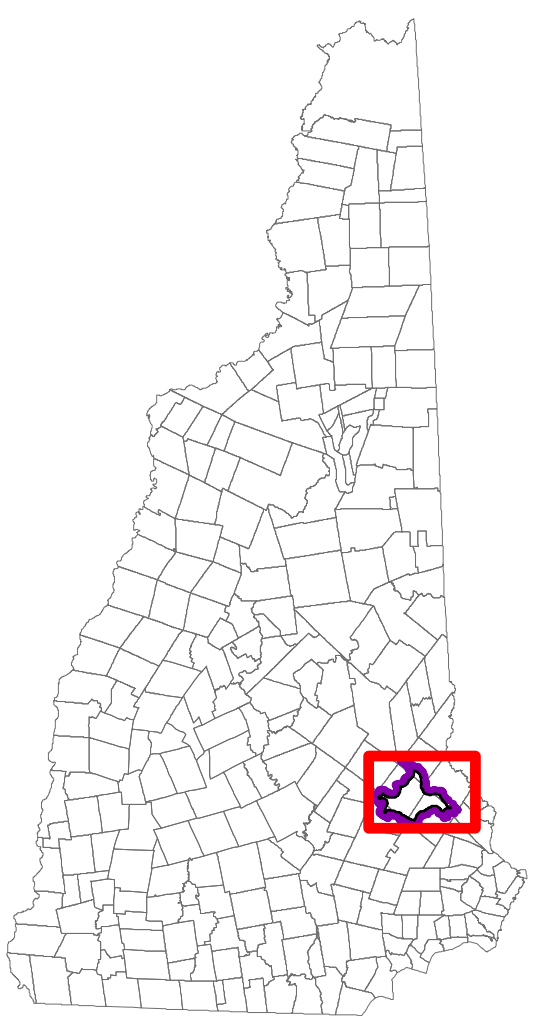


Figure 1: Bank Erosion (right bank) with overhanging trees and exposed roots, in "extreme" sensitivity reach.



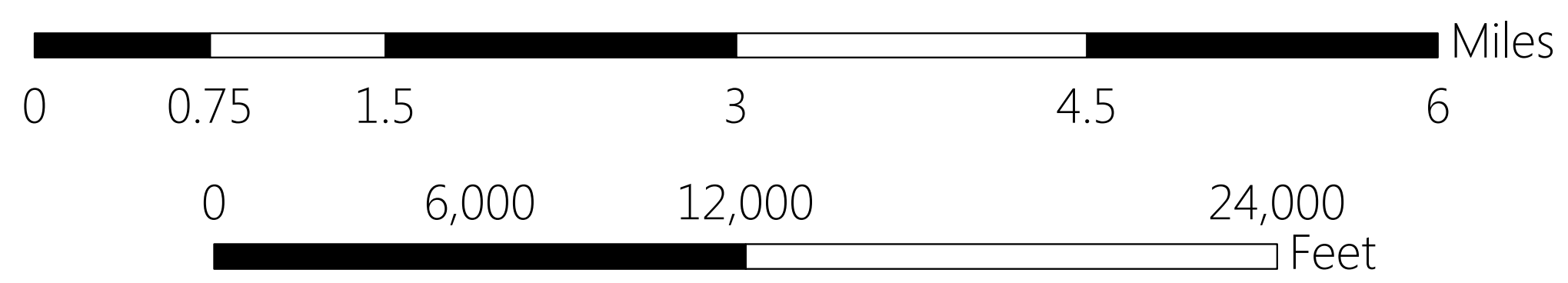
Figure 2: Bank erosion (road bank) and mass wasting in "extreme" sensitivity reach.



Figure 3: Uprooted tree (right bank) in "moderate" sensitivity reach.

Map Created by the Strafford Regional Planning Commission
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Isinglass River Management Plan
M:\Region\MapRequests\SLAC\2017_RMP_Updates\Maps\Figure9_FEH_Zones_24x36
Date/Author: September, 2017 / KAP
Map should be used for planning purposes only.

Data Sources
Base features are from USGS 1:24,000 scale Digital Line Graphs, as archived in the GRANIT database. Digital data in NH GRANIT represent the efforts of the contributing agencies to record information from the cited source materials. Complex Systems Research Center (CSRC), under contract to the Office of Energy & Planning (OEP), and in consultation with cooperating agencies, maintains a continuing program to identify and correct errors in these data. Neither OEP nor CSRC make any claim as to the validity or reliability or to any implied uses of these data.
Fluvial Erosion Hazard Zones data and Percent Slope data were prepared by the New Hampshire Geological Survey, February 2010.
Floodplain data was provided by the Federal Emergency Management Agency (FEMA).



Base Features Legend

- Municipal Boundary
- Lake or Pond
- River, Stream, Brook
- Wetlands
- State Road Type
- Local Road Type
- Private Road Type

