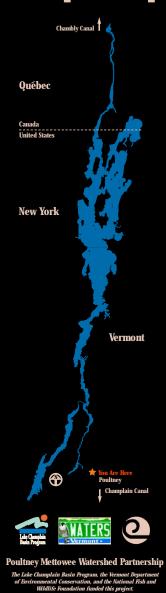
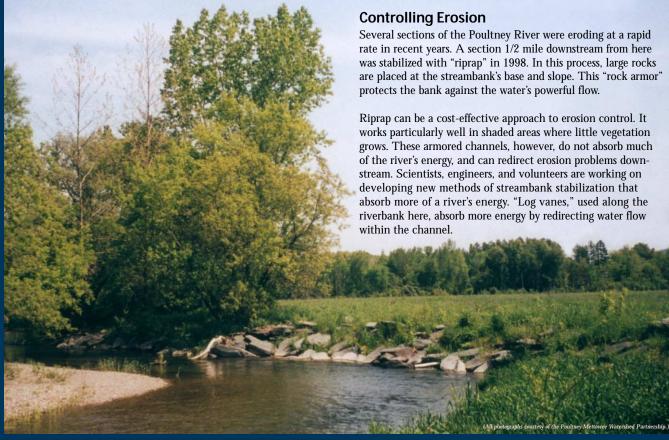
#### Riprap and Log Vanes: Erosion Busters





#### **Eroding Banks**

Rivers constantly work to reduce their energy. River bends, for example, are created to slow water flow. When a river's path is straightened by the work of humans or a powerful natural event, such as a heavy rainfall or an unusually quick snowmelt, new energy is created in the stream flow. When a river "bends" to reduce this new energy, it pushes against the streambank and erosion may occur. Erosion along rivers can fill fish spawning areas with sediment, eliminate aguatic food sources. remove vegetation that is critical to keeping water temperatures cool, and wash away agricultural land and private property.





## Building a Log Vane Three logs are cabled together to form the vane. The grey material on top is a filter fabric, that is unrolled around the vane after it is installed. Without this, water and sediment would flow through the vane, as opposed to the vane redirecting water around it.



### Redirecting Water The vane is carefully placed in a trench dug at a specific angle into the streambed and streambank. At this angle, the vane redirects water flow away from the river's bank. Gravel and large rocks help keen the vane in place.



# Stabilizing Banks Because log vanes are not expected to last forever, vegetation is planted to further protect and stabilize the riverbank. Shrubs such as elderberry, highbush cranberry, and dogwoods are planted along the edge of the bank, while trees such as maple, oak, and willow are planted further back.