

Lake Champlain Aquatic Habitat Connectivity

Fish Passage in the Lower Winooski Watershed

Bradley Brook a tributary to the Mad River, Warren, Vermont
Longitude: -72.8861 Latitude: 44.1199



Before



After

Left: A view of the Bradley Brook culvert. Right: Bradley Brook After.

Site description: Bradley Brook is a tributary of the Mad River that converges from the west. The Mad River is 26 miles long and drains an area of 143 square miles. It flows south to north in a valley bounded on the west by the Green Mountains and on the east by the Northfield Mountains before it drains into the Winooski River.

Problems / history: A failing culvert that is perched has created a height barrier to aquatic organism passage. An abundant brook trout population with 2968 fish/mile was observed in 2009. After severe flooding from TS Irene and several major floods in 2013, the population decreased to 1901 fish/mile.

Objective and Method: Reconnect Bradley Brook to over three miles of head waters by replacing this barrier with a bottomless arch that will allow full aquatic passage.

Partners and Funding: Funding and support for this project came from the US Forest Service (USFS) Winooski Natural Resources Conservation District (WNRCD), Friends of the Mad River (FMR), the Town of Warren and the US Fish and Wildlife Service.

Cost:	<u>USFWS</u>	<u>WNRCD</u>	<u>TOWN</u>	<u>USFS</u>	<u>VTANR</u>	<u>TOTAL</u>
	\$137,775	\$10,000	\$54,000	\$108,536	\$7,000	\$317,311