



Phase I: Brown Bridge Dam Removal



Brown Bridge Dam Removal By the numbers

- Re-established 2.5 miles of river channel
- Re-established 12.2 acres of floodplain
- Moved 260,000 cubic yards of sediment
- Placed 985 linear feet of woody debris for bank stabilization
- Placed 5,100 linear feet of woody debris for in-stream habitat
- Total project cost: \$4.2 million
- Construction ~ 5 months
- Total hours ~ 21,300
- Partner hours ~2,500

BROWN BRIDGE DAM REMOVAL AND EARLY RESTORATION FUNDING

MAJOR GRANTS 2010-2012

Bureau of Indian Affairs	\$1,349,000	(GLRI*)
Great Lakes Fishery Trust	\$1,000,000	
MDEQ EPA Section 319 Restoration	\$80,000	
National Fish and Wildlife Foundation	\$1,150,000	Sustain Our Great Lakes (GLRI)
Oleson Foundation	\$25,000	
U.S. Environmental Protection Agency	\$533,161	(GLRI)
U.S. Fish & Wildlife Service	\$1,091,386	Great Lakes Fish & Wildlife Restoration Act (GLRI)
U.S. Fish & Wildlife Service	\$500,000	National Fish Passage & GL Basin Partnership (GLRI)
TOTAL	\$5,728,547	

OTHER FUNDING SOURCES – committed for related activities in the Boardman watershed

Rotary Camps & Services of Traverse City	Federal Highway Administration/Michigan
The Frey Foundation	Department of Transportation
City of Traverse City	U.S Fish & Wildlife Service – Tribal Wildlife Grant
Grand Traverse County	NOAA – Coastal Counties Grant
The Conservation Alliance	U.S. Fish & Wildlife Service – Partners for Fish & Wildlife Habitat
Patagonia	Grand Traverse Band – 2% Allocation Grand Traverse County
Trout Unlimited	Bureau of Indian Affairs – Manpower Funding
Adams Chapter TU	Michigan DEQ Coastal Programs
DTE Energy Foundation	U.S. Army Corps of Engineers

* GLRI – Great Lakes Restoration Initiative, the historic federal initiative to restore the Great Lakes ecosystem. GLRI represents the largest investment in the Great Lakes in over two decades to ensure the sustainability and economic vitality of the lakes and surrounding eight-state region.

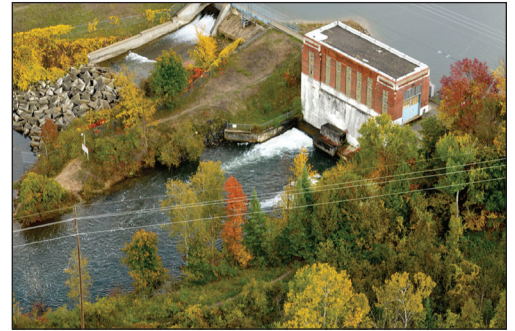
Source: Conservation Resource Alliance

Project Team





Phase II: Boardman & Sabin Dam Removal



Phase II

- Replace Cass Road Bridge (to west of current location)
- Re-align the river between Boardman and Sabin Dams to its historic channel
- Remove Boardman Dam
- Remove Sabin Dam
- Restore stream channel

Partners

- U.S. Army Corps of Engineers, Detroit District
- Grand Traverse County Road Commission
- Michigan Department of Transportation
- Implementation Team

Phase II Cost Estimate

Dam removal/restoration: \$10.0 million

Bridge replacement: \$2.9 million

(Source: U.S. Army Corps of Engineers, Detroit District, November 2012)

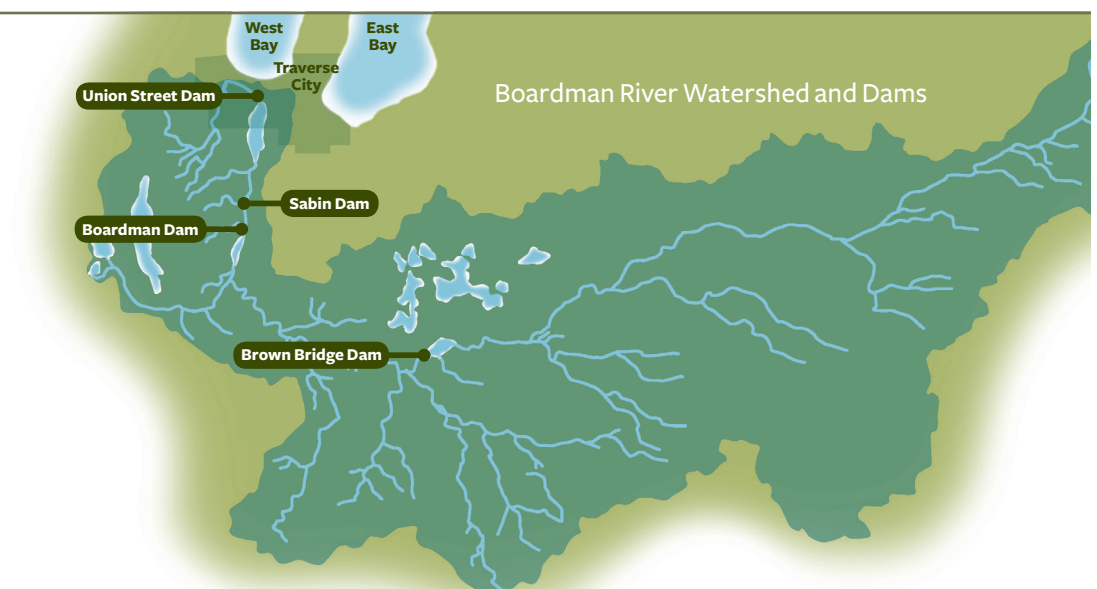
Phase II Timeline

2010-2012: Field studies, preliminary engineering and analysis

2013: Final design, bidding, permitting

2014-2015: Construction

2010 – Ongoing: Monitoring



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