

Fishways for River Herring

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Removals/Breaches Downstream-most Barrier

McGoldrick Dam Removed

Town Brook Removal/Rock Ramp

Rock Rapids Design

MIDTOWN DAM

Midtown Rapids Conversion

ROCK ARCH RAPIDS

The downstream end of the rapids is concrete narrowing flat to cross section at 8' approaches the dam crest. Rock raises slope downstream from the back upstream (opposite slope of rapids). Near slopes vary to match grade.

30° ANGLE OF WEIR TO BANK

8% SLOPE

FLOW

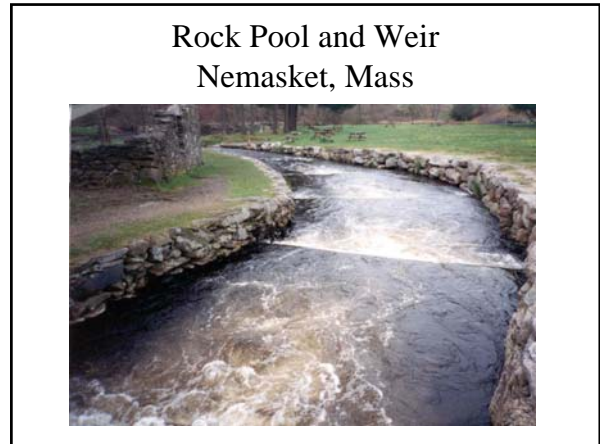
GAPS IN WEIRS TO FACILITATE FISH PASSAGE

- 4" - FIELD STONE
- 1 - 3" FIELD STONE
- 1" - 6" COBBLE (for filling void near crest)

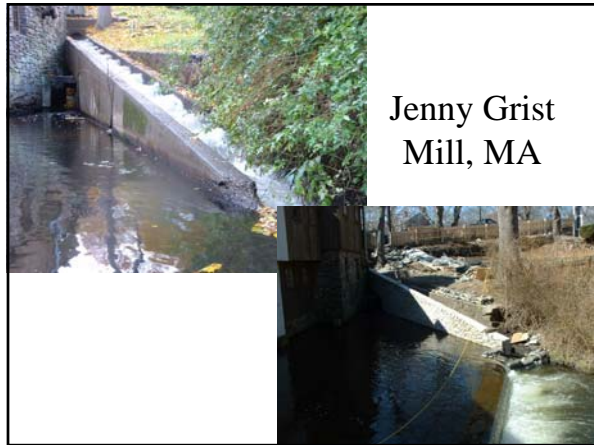
Designed by Luther Auerbach, MDE/US



Acushnet
River, MA



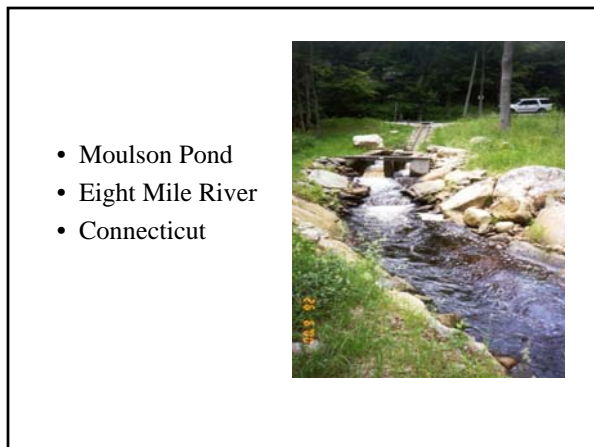
Rock Pool and Weir
Nemasket, Mass



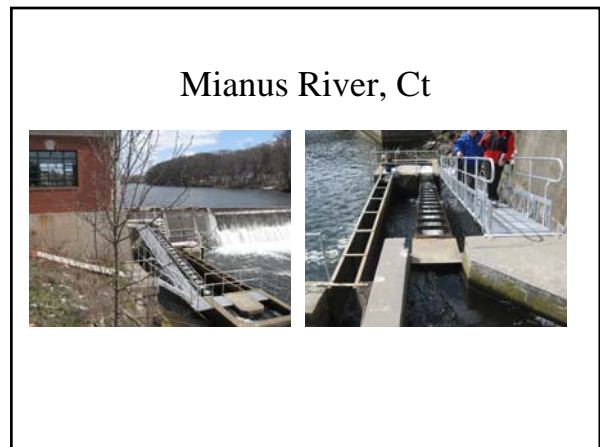
Jenny Grist
Mill, MA



Echo Lake, RI



- Moulson Pond
- Eight Mile River
- Connecticut

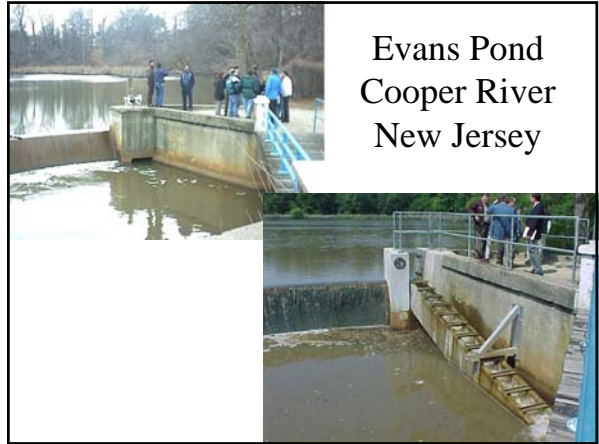


Mianus River, Ct

Branford, Ct



Evans Pond
Cooper River
New Jersey



Shenandoah Fishway



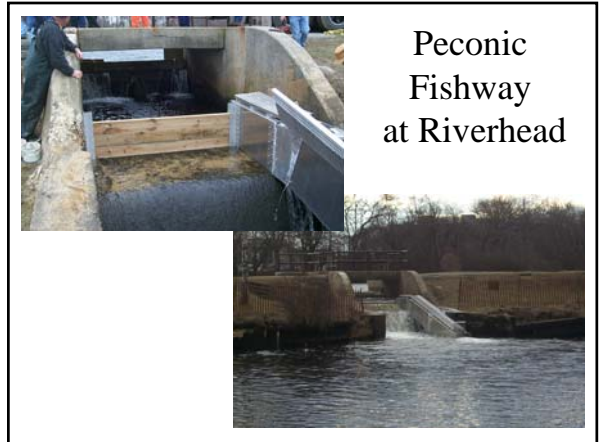
Lake Carasaljo Fishway



Removable Steeppass Fishway



Peconic
Fishway
at Riverhead



Green River Dam and Fishway



Center Pond, Maine



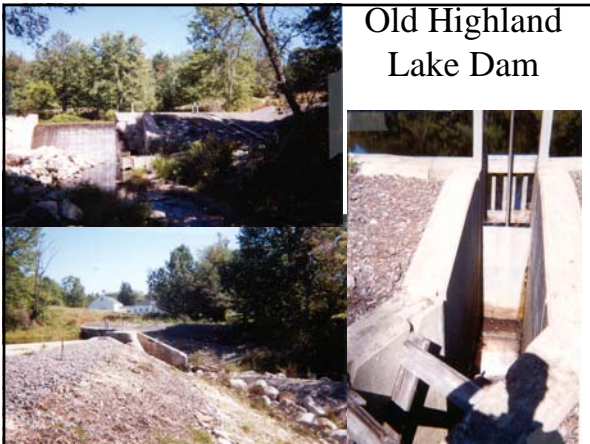
Boyden Lake, Maine



Smelt Hill
Presumpscot
River
Maine

- Damaged by Floods in 1996
- Removed in 2002

Old Highland
Lake Dam



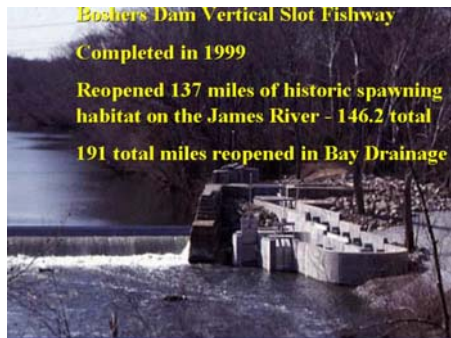
Highland Lake



Highland Lake
 – USACE/FEMA Project



Boshers Vertical Slot

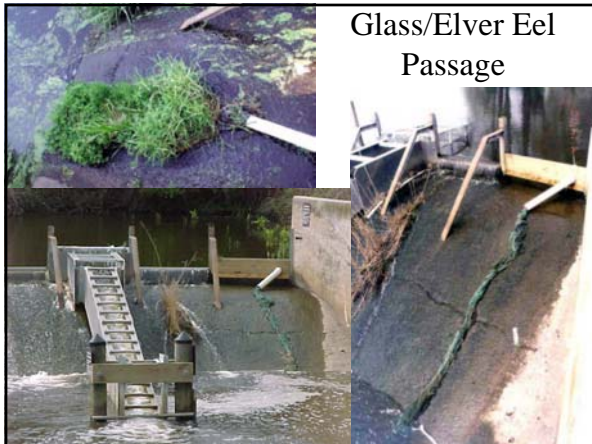


Boshers Dam Vertical Slot Fishway
 Completed in 1999
 Reopened 137 miles of historic spawning habitat on the James River - 146.2 total
 191 total miles reopened in Bay Drainage

Upstream Passage Specific for
 American Eel (*Anguilla rostrata*)



Glass/Elver Eel
 Passage



Ramps with Bristle and Brush
 Substrate





Kinneytown
Hydro
FERC # 6985
Naugatuck R.
CT
Akwadrain
and
Enkamat
Substrate

Lower Millpond, CT



Ft. Halifax, FERC No. 2552



DSI Hydro FERC No. 2608
Westfield River, MA



Millville Hydro FERC #2343
Shenandoah River, WVA



Millville Exit Pipe and Box



Millville Exit Box



Hampton, Vermont, All-American Eelway



Chambly Eel Pass, Canada

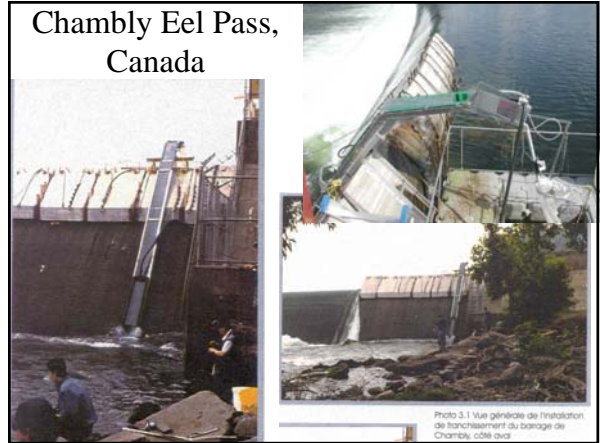


Photo 3.8 Examen d'une anguille pc la présence d'une étiquette électroir

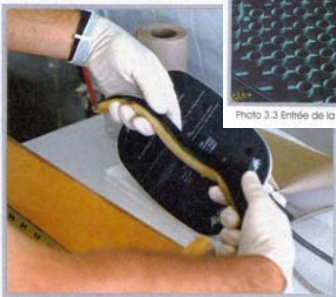
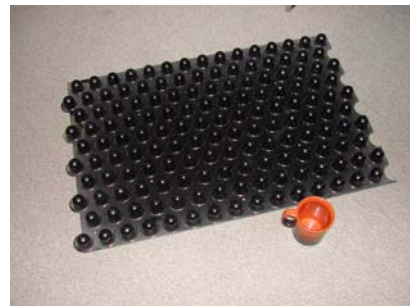
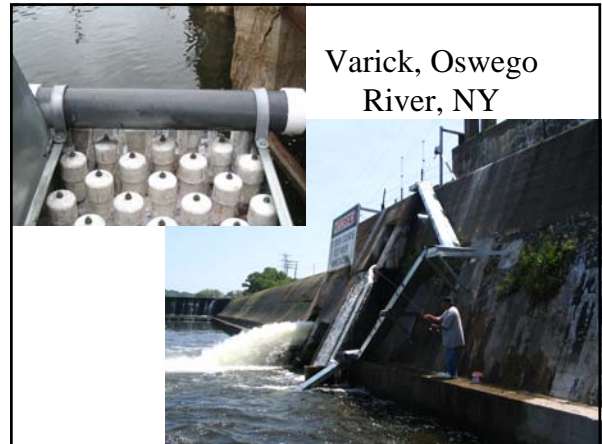


Photo 3.3 Entrée de la passe avant installation

Other Substrate Material





References

- Atlantic States Marine Fisheries Service Commission, 2000, *Interstate Fisheries Plan for American Eel*, ASMFC Fisheries Management Report 36, Wash. D. C.
- Solomon, David J. and Beach, Michael H., *Manual for provision of upstream migration facilities for Eel and Elver*, Science Report SC020075/SR2, Environment Agency, UK