

An aerial photograph of Milwaukee, Wisconsin, showing the city's dense urban landscape, the Milwaukee River winding through it, and the city's proximity to Lake Michigan. The image is overlaid with a semi-transparent blue filter.

MILWAUKEE RIVER ESTUARY: AREA OF CONCERN

GREAT LAKES: Quick Facts

40,000,000

people rely on this resource for drinking water

95%

of the surface freshwater in United States

99 YEARS

amount of time to replace the water in Lake Michigan

WHAT IS THE MILWAUKEE ESTUARY?

The Milwaukee River Estuary represents the confluence of the three major rivers in Milwaukee, the Milwaukee the Menomonee and the Kinnickinnic Rivers and Lake Michigan. This area has deeper water than elsewhere in the Milwaukee River Basin.





WHAT IS AN AREA OF CONCERN?

An AOC is a location that has experienced significant environmental degradation and the public is unable to fully use the resource in a safe or beneficial way. The Milwaukee Estuary was designated an Area of Concern (AOC) in the 1980's.

WHAT IS A BUI?

The term BUI stands for “Beneficial Use Impairment.” The presence of these BUIs in our waterways, means the public isn’t able to fully use or enjoy their water resources in a safe way for eating, drinking, swimming, fishing, etc.

Milwaukee has 11 of 14 possible BUIs.

1. **Restrictions** on Dredging Activities
2. **Fish Tumors** or Other Deformities
3. Bird or **Animal Deformities** or **Reproduction Problems**
4. **Restrictions on Fish and Wildlife Consumption**
5. **Degradation** of Benthos
6. **Degradation** of Phytoplankton and Zooplankton Populations
7. **Loss of Fish** and Wildlife Habitat
8. Degradation of Fish and **Wildlife Populations**
9. **Beach Closings/Recreational Restoration**
10. Eutrophication or **Undesirable Algae**
11. Degradation of **Aesthetics**



HOW DO WE FIX AN AOC?

To reach our goal and 'de-list' Milwaukee as an Area of Concern, we must clean up our rivers and Lake Michigan, to restore some of their natural function by: creating habitat, removing invasive species, planting vegetation, reducing pollutants, etc.

ECONOMIC & COMMUNITY GAINS!

\$2-\$3 for every \$1

as a result of remedial actions and restoration work

\$50,000,000,000

in benefits from tourism to increased property values and
decreased costs for cities and counties

Kletzsch Park Project – WP548



September 17, 2019 Public Information Meeting Held

Kletzsch Park Project Components



East Abutment
Dam Repairs

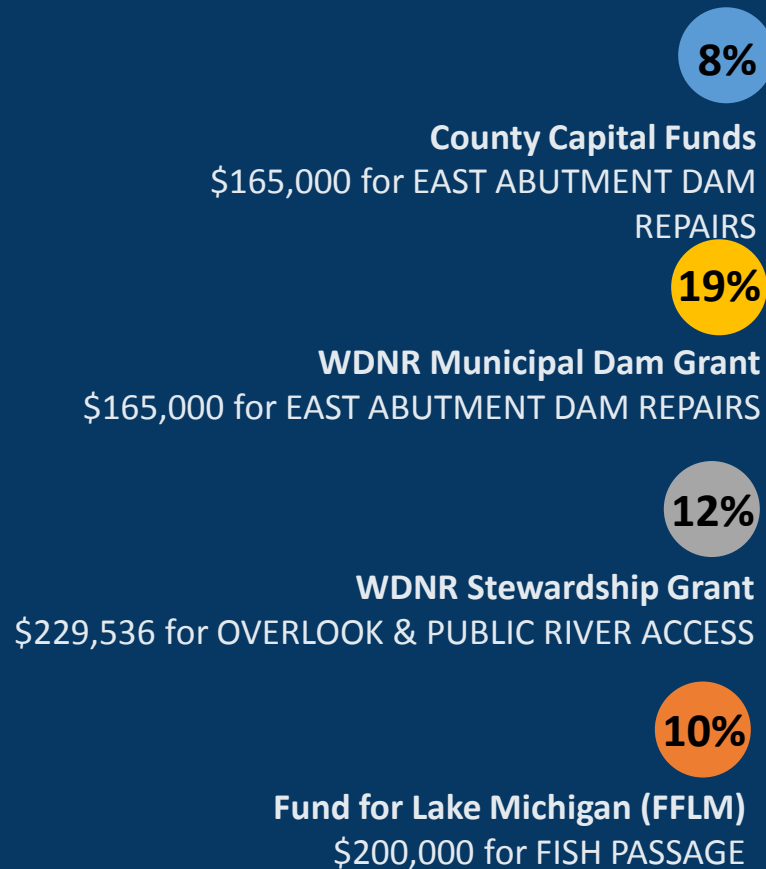


Public River Access,
Portage, &
Overlook



Fish Passage

Kletzsch Park Project Funding



Kletzsch Park Project Considerations

East Abutment Dam Repairs	<ul style="list-style-type: none">• Address deficiencies identified by the DNR inspection• Make the bypass structure functional• Remove woody vegetation to protect the integrity of the dam structure
Public River Access, Portage & Overlook	<ul style="list-style-type: none">• Must provide universal access• Refresh the overlook and address unvegetated areas• Provide improved and accessible portage
Fish Passage	<ul style="list-style-type: none">• Cannot impact floodplain• Needs correct slope and velocity to work for native fish• Desirable to build on publicly owned property• Entrance to fish passage best located near base of dam
Cultural Assets	<ul style="list-style-type: none">• SHPO reviewing updated cultural resource information for in-river bypass option, EPA review also underway• City of Glendale Historic Preservation Commission must review and approve

January 9, 2019 Public Information Meeting #1:

When: Wednesday, January 9, 2019

5:30 p.m. to 7:00 p.m.

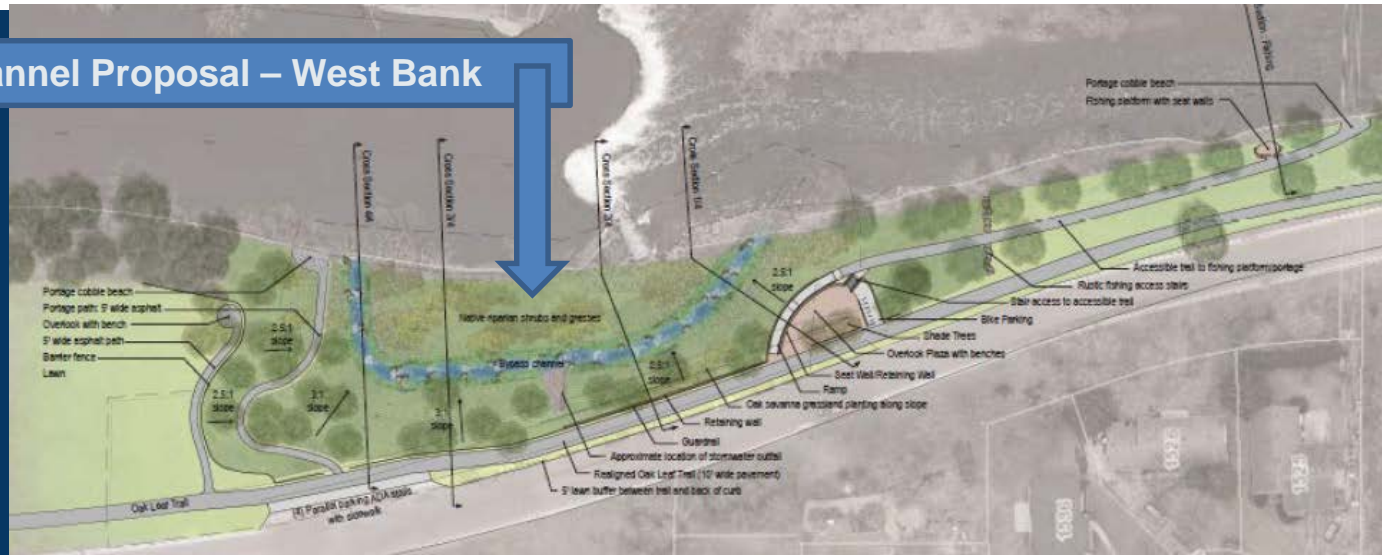
Open House format, with presentation from 6:00-6:30 p.m.

Where: Glen Hills Middle School

2600 W. Mill Road

Glendale, WI

Bypass Channel Proposal – West Bank



County Board Resolution 19-335, April 18, 2019:

“...BE IT FURTHER RESOLVED, that before proceeding with the project, the Parks Department will present the proposed final design at another Public Information Meeting, at a location near the project site, to address the new alternatives and how the proposed final design addresses the various concerns raised by the public; and

BE IT FURTHER RESOLVED, the proposed final design shall require County Board approval before construction of any project can proceed.”

September 17, 2019 Public Information Meeting #2:

When: Tuesday, September 17, 2019 | 5:00 to 7:30 p.m.

- Open House: 5:00 - 5:45 p.m.
- Presentation and Q & A: 5:45 - 6:30 p.m.
- Small Group Discussion: 6:30 - 7:30 p.m.

Where: Glen Hills Middle School | 2600 West Mill Road, Glendale



Kletzsch Park Fish Passage Design



Plan View Option 2

Kletzsch Park River Access, Dam Repair & Fish Passage Project
Milwaukee River

Kletzsch Park Fish Passage Dimensions



Total Dam Length: 245 ft

Kletzsch Park Project View: In-River Fish Passage



Kletzsch Park Project View: River Access & Portage














Kletzsch Park Project View: Lower Overlook



October 11, 2019 – Frequently Asked Questions Document Released

Kletzsch Park

Sort by Popularity ▼

-  Is dam removal an option?
-  Will this project impact the mature oaks?
-  Why can't the fish passage be on the east bank of the river?
-  Why improve the overlook area?
-  Were Tribal Communities in Wisconsin notified about this project?
-  Why a fish passage at the Kletzsch Dam?
-  What is the history of the Kletzsch Park dam and what repairs are required?
-  What is universal design?
-  Will the project impact Native American burial mounds or other cultural resources?
-  What is the project schedule?
-  Why improve the river access & portage?

Public Comment Period Open Until October 18, 2019

Current PEEC Request:

Review and approval to proceed with in-stream fish passage option as presented at September 17, 2019 Public Information Meeting.