

At a glance

As of May 2026

Project funding

ML 2024, Ch. 106, Art. 1, Sec. 2, Subd. 5(aa)
\$12M available until June 30, 2029

Project webpage

mndnr.gov/LD5Carp

Quick facts

- DNR is facilitating an interagency project team of federal and state partners
- The appropriation is intended for the design, installation, and initial operation of a selective deterrent for invasive carp at the lock of LD5
- An Underwater Acoustic Deterrent System (uADS) is being designed for LD5 by the USACE-St. Paul District and the U.S. Army Engineer Research and Development Center
- Additional strategies to trap and remove invasive carp and deter passage through the dam are needed to support desired outcomes of managing invasive carp and slowing their spread

Contacts

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Funding provided from the
Outdoor Heritage Fund

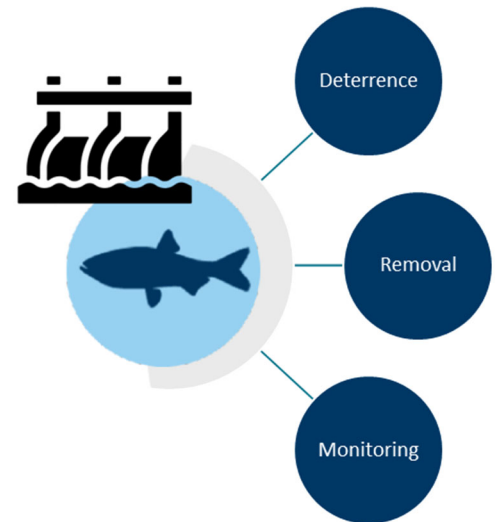


Protecting Upper Mississippi from Invasive Carp

Lock and Dam 5 (LD5) Invasive Carp Deterrent Project

The Minnesota Department of Natural Resources (DNR) is pursuing an integrated approach to invasive carp at Lock and Dam 5 (LD5) that incorporates deterrence, removal, and monitoring. An integrated approach is needed because:

- Invasive carp can pass upstream through the dam under certain conditions, and a deterrent at the lock does not limit passage through the dam
- Deterrents reduce upstream passage through locks by about 50% and do not remove invasive carp from the river
- There are only two experimental installations of selective acoustic deterrents in the U.S. Monitoring is needed to evaluate and adaptively manage these systems



The uADS will be submerged in the downstream lock approach of LD5

The uADS is a selective invasive carp deterrent developed by the U.S. Geological Survey and the U.S. Army Engineer Research and Development Center.

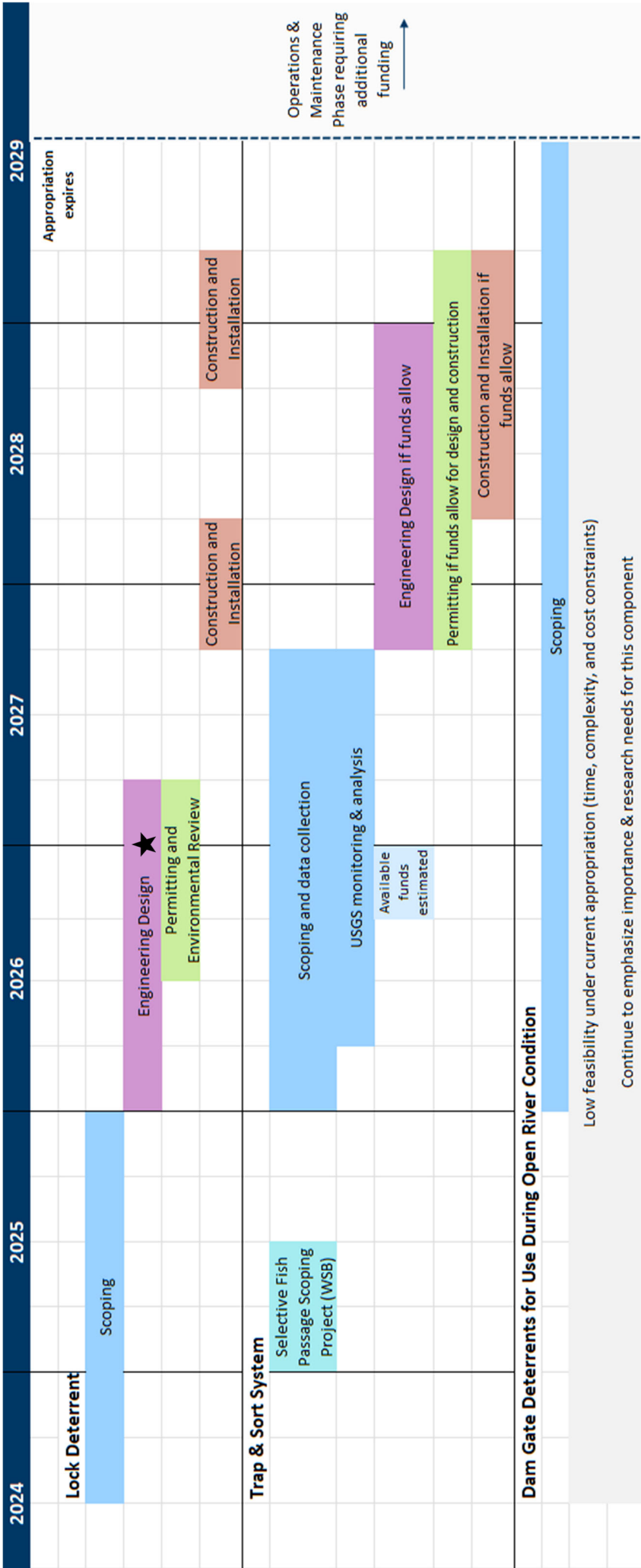
A row of speakers creates a sound field that targets the higher hearing range of invasive carp relative to most native fish.

DNR is monitoring invasive carp and five species of native fish to inform development and adaptive management of the LD5 deterrent project.

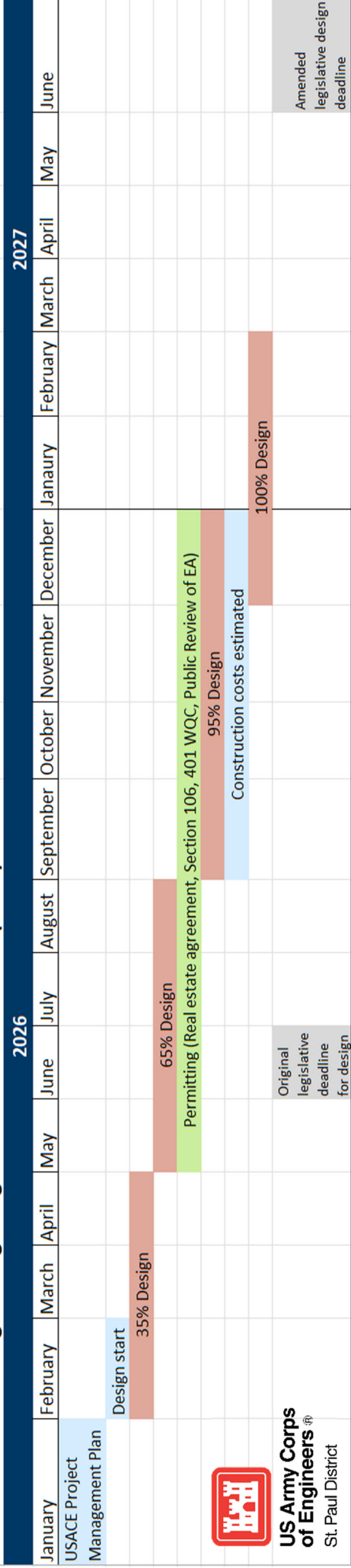
From April 2025 - 2026, over 300 native fish and 31 invasive carp have been tagged with acoustic transmitters during LD5 tagging events!



See back for project timelines



Detailed Timeline - Engineering Design for the Lock Deterrent (uADS) ★



US Army Corps of Engineers
St. Paul District