

NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM

WCI ANNUAL WATERWAYS SYMPOSIUM

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***World-Class Delivery...
Real-World Impact!***



US Army Corps
of Engineers®





NESP CURRENT ACTIVITIES



NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

ST. PAUL DISTRICT- ROCK ISLAND DISTRICT - ST. LOUIS DISTRICT

NAVIGATION AND ECOSYSTEMS PROJECTS



The Navigation and Ecosystem Sustainability Program (NESP) is a long-term, dual-purpose program that integrates navigation improvements and ecosystem restoration together to provide Upper Mississippi River System once in a generation-type positive impacts.

The primary goals of the program are to increase the capacity and improve the reliability of the inland navigation system while restoring, protecting, and enhancing the environment.

This map shows both projects that are actively being implemented and future ecosystem projects that have been approved. NESP includes an additional 5 - 1200' locks, systemic mitigation, and hundreds of ecosystem restoration projects.

ACTIVE IMPLEMENTATION

- ★ Lock 25 New 1200' Lock
- ★ Lock and Dam 22 Fish Passage Improvement Project
- 1 Pool 2 Wingdam Notching
- 2 Lock 14 Mooring Cell
- 3 Starved Rock Breakwater
- 4 Moore's Towhead System Mitigation
- 5 Twin Island - Island Protection and Enhancement
- 6 Alton Pools Islands - Island Protection and Side Channel Restoration

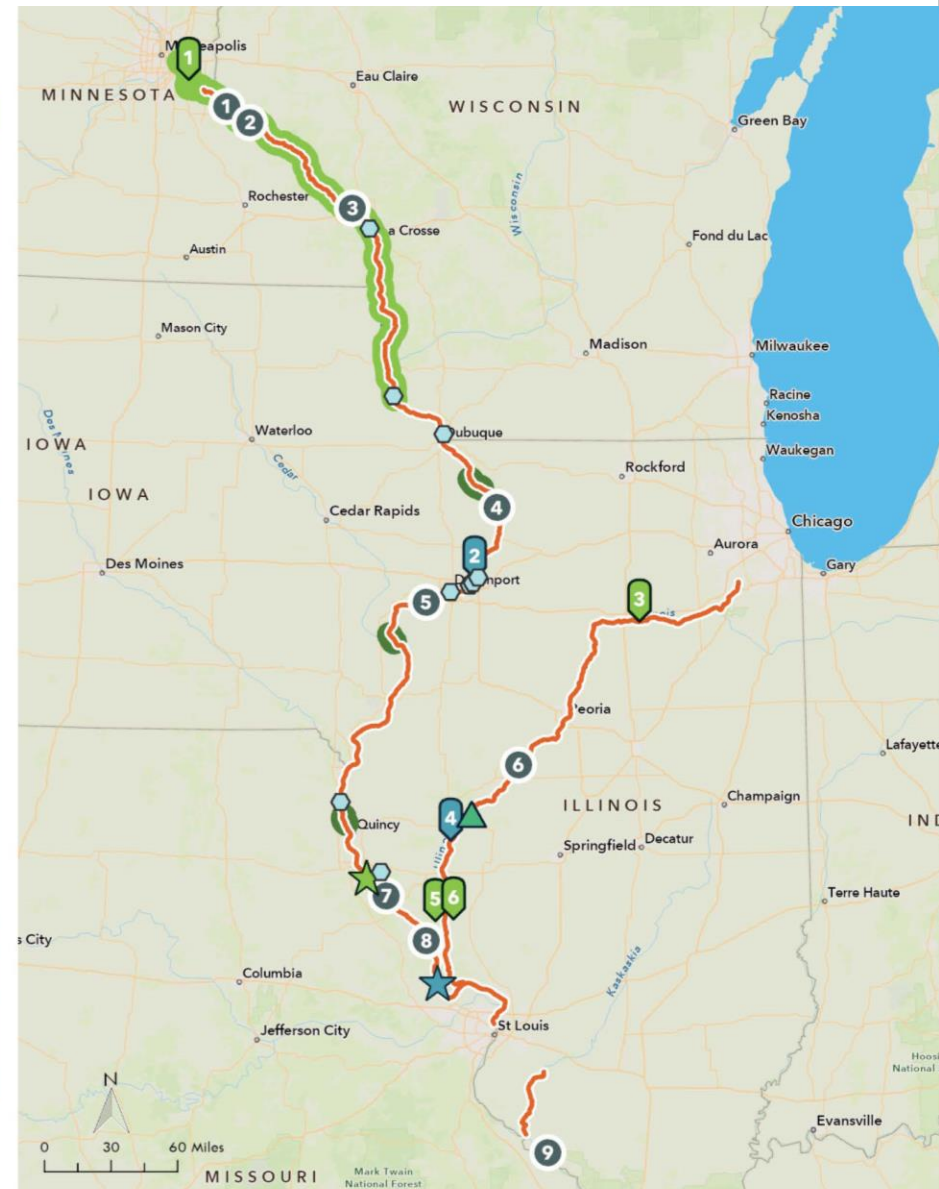
ECOSYSTEM PROJECTS - APPROVED

- WLM - Reduce Water Level Fluctuations
- Systemic Forest Restoration
- Multi-Pool Forest Restoration
- 1 North Sturgeon Lake
- 2 Wacouta Bay
- 3 Johnson Island
- 4 Sabula Lakes
- 5 Andalusia Island Complex
- 6 Liverpool Flowing Side Channel
- 7 Pool 24 Island Restoration - Denmark and Drift Islands Complex
- 8 Pool 25 Side Channels - Clarksville/Carroll Island Complex, Haugens Island/Lower Pool 25 Complex
- 9 Middle Mississippi River Stone Dike Alterations Phase 1

NAVIGATION PROJECTS

- Mooring Facilities
- ▲ LaGrange New 1200' Lock Design

Systemic Mitigation - throughout the Upper Mississippi River Basin



PARTNERS





LOCK 25 NEW 1200' LOCK – PROJECT OVERVIEW





LOCK 25 NEW 1200' LOCK – CURRENT ACTIVITIES



- First construction contract awarded in September 2022 to Massman Construction.
- Acquisition plan approval – focused on ECI (Early Contractor Involvement)
- Project delivery team working on the 35% design deliverable
- Design being advanced for the bulkhead supply contract and alteration/relocation of MO State Highway N
- Working closely with USACE ERDC and Nav Industry partners with the ship simulator (last meeting in October 2022)



LOCK 25 NEW 1200' LOCK: PROJECT DETAILS – PROGRESS AND/OR ISSUES/CHALLENGES

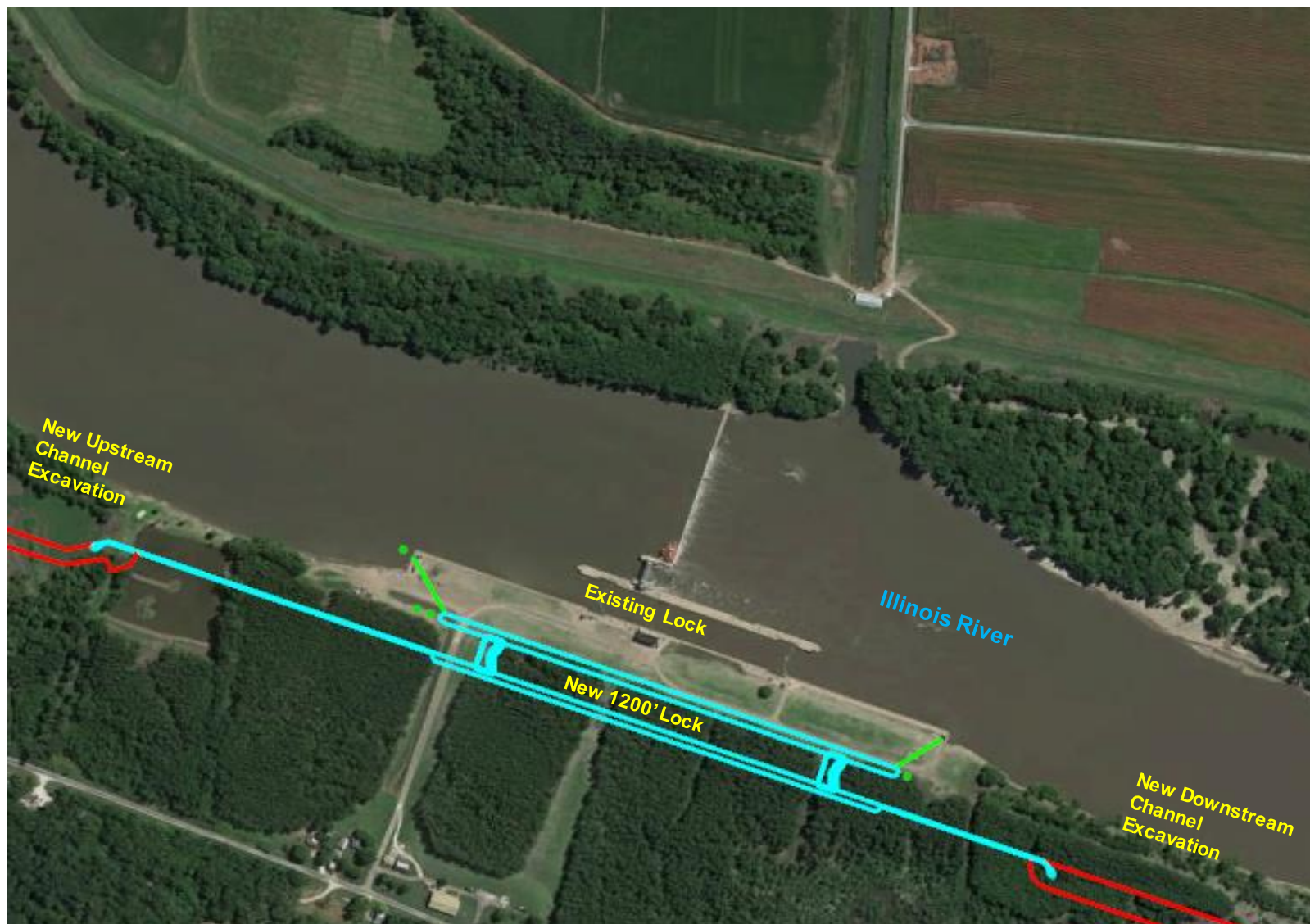


- **Progress:** Phase 1 Lockwall Construction Contract
 - Awarded 6 September 2022
 - Notice to Proceed Issued 19 October 2022
 - ~\$10.1M Firm Fixed Price Contract
 - 14-month period of performance
- **Challenge:** Minimize impacts to navigation industry during lock construction
- **Mitigation Strategies:**
 - Early Contractor Involvement (ECI) will allow proper coordination between USACE, Navigation, and Construction Industry
 - Continued Navigation and Construction industry collaboration to inform intermediate wall design and operational capabilities
- **Challenge:** Construction Market Inflation and Labor/Material Availability
- **Primary Mitigation Strategy:** Early Contractor Involvement will allow proper coordination between USACE, Navigation, and Construction Industry



LAGRANGE NEW 1200' LOCK – PROJECT OVERVIEW

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LAGRANGE NEW 1200' LOCK CURRENT ACTIVITIES



Architect/Engineer design contract awarded to Stanley Consultants in FY22. Primary tasks include:

- Geotechnical investigations
- Initial lock design
- Hydraulic modeling
- Aerial/site surveys
- Cultural surveys
- Real estate rights of entry
- HTRW analyses
- Physical model updates (Engineer Research and Development Center)



THANK YOU

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