



Environment and Natural Resources Trust Fund (ENRTF) M.L. 2017 LCCMR Work Plan

Date of Submission: 10/14/2016

Date of Next Status Update Report: 2/1/2018

Date of Work Plan Approval:

Project Completion Date: 7/1/2018

Does this submission include an amendment request? NO

PROJECT TITLE: Mississippi River Habitat Restoration at Hall's Island

Project Manager: Adam Arvidson

Organization: Minneapolis Park and Recreation Board

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City/State/Zip Code: Minneapolis, MN

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Email Address: aarvidson@minneapolisparcs.org

Web Address: www.minneapolisparcs.org

Location: Minneapolis, Hennepin County

Total ENRTF Project Budget:

ENRTF Appropriation: \$25,000

Amount Spent: \$0

Balance: \$25,000

Legal Citation: M.L. 2017, Chp. xx, Sec. xx, Subd. xx

Appropriation Language:

[To be inserted following the MN Legislative Session in Spring 2017. This will be blank for the initial submission and will be provided to you at a later date.]

I. PROJECT TITLE: Mississippi River Habitat Restoration at Hall’s Island

II. PROJECT STATEMENT:

The Minneapolis Park and Recreation Board (MPRB) and its scientific partners, including malacologist Mike Davis, ornithologist Dave Zumeta, and others, are undertaking a large-scale project to restore lost Mississippi River habitat at Hall’s Island. The Upper Mississippi River in Minneapolis used to be rich in habitat for native birds and mussels. With the advent of navigation and associated dredging and industrial development, this habitat has been all but lost—especially the critical island and back-channel habitat so necessary for resident and migrating wildlife. MPRB will take a significant step toward re-establishing Mississippi River habitat with the creation of Hall’s Island, a historic natural island that was eliminated for industrial use in 1966.

Located near the Plymouth Avenue Bridge in Northeast Minneapolis, the restored Hall’s Island will be approximately 1,100 feet long and 200 feet wide. It is part of a larger park development on the former Scherer Brothers lumber yard property, which is now owned by MPRB. Hall’s Island and the park on the Scherer site are part of the RiverFirst initiative, a multi-year, community-driven process to remake the Upper Mississippi as a natural and recreational landscape. ENRTF funding will be used to plan habitat restoration appropriate for native resident and migratory mussels, birds, and reptiles. Four scientists—malacologist, ornithologist, herpetologist, and plant restoration ecologist—will be incorporated into the design process for the island and will prepare guidance documents on customizing the planned habitat to best meet the needs of native plants and animals.

Under state statute, MPRB has until 2020 to construct Hall’s Island. Additional funding from various sources has been secured, the adjacent shoreline is in public hands, and the negative habitat impact of navigational dredging has ceased. Hall’s Island provides one of very few opportunities in the urban reaches of the Mississippi to create habitat from scratch. By collaborating with respected scientists and leveraging additional public funding, MPRB can utilize ENRTF funding to have a tangible, large-scale impact on riverine habitat in Minnesota.

III. OVERALL PROJECT STATUS UPDATES:

Project Status as of February 1, 2018:

Overall Project Outcomes and Results:

IV. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1: Habitat Restoration and Wildlife Reintroduction Plan

Description: In consultation with four scientists, prepare a restoration and reintroduction plan for Hall’s Island. The plan will describe specific habitat restoration practices and desired outcomes that will guide construction of the island, and will determine how and which species to reintroduce to the site. The scientists will join with the existing project design team process, which includes representatives of the Minnesota DNR and the U.S. Army Corps of Engineers. These agencies are already being consulted on the design and construction of the island, and will be consulted in the preparation of this plan, as well.

Summary Budget Information for Activity 1:

ENRTF Budget: \$ 25,000
Amount Spent: \$ 0
Balance: \$ 25,000

Outcome	Completion Date
1. Completion of restoration and reintroduction plan	November, 2017

Activity 1 Status as of February 1, 2018

Final Report Summary:

V. DISSEMINATION:

Description: The Habitat Restoration and Wildlife Reintroduction Plan, along with supporting materials and data, will be shared on the website of the Minneapolis Park and Recreation Board (www.minneapolisparcs.org).

Status as of February 1, 2018

Final Report Summary:

VI. PROJECT BUDGET SUMMARY:

A. Preliminary ENRTF Budget Overview:

***This section represents an overview of the preliminary budget at the start of the project. It will be reconciled with actual expenditures at the time of the final report.**

Budget Category	\$ Amount	Overview Explanation
Professional Contracts:	\$25,000	Four professional scientists (malacologist, ornithologist, herpetologist, and restoration ecologist) preparing habitat restoration and wildlife reintroduction plan.
TOTAL ENRTF BUDGET:	\$25,000	

Explanation of Use of Classified Staff: n/a

Explanation of Capital Expenditures Greater Than \$5,000: n/a

Total Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation: 0

Total Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation: less than 1

B. Other Funds:

Source of Funds	\$ Amount Proposed	\$ Amount Spent	Use of Other Funds
Non-state			
MPRB Capital Levy	\$899,000	\$	
Mississippi Watershed Management Organization grant (pending)	\$1,500,000		
State			
Met Council/State Regional Park Bonds	\$1,796,000		
	\$	\$	
TOTAL OTHER FUNDS:	\$4,195,000	\$	

VII. PROJECT STRATEGY:

A. Project Partners:

Partners receiving ENRTF funding

- *David Zumeta, independent forestry and ornithology consultant*
- *Mike Davis, Minnesota DNR mussel researcher*
- *Herpetologist to be determined*
- *Plant restoration ecologist to be determined*

Partners NOT receiving ENRTF funding

- *none*

B. Project Impact and Long-term Strategy: MPRB will construct Hall’s Island as a habitat refuge and passive public park in the Mississippi River. The total cost of the restoration of Hall’s Island is expected to be \$4,200,000 (exclusive of costs associated with previous acquisition, design, and environmental remediation). The impact of LCCMR funding will be to scientifically inform restoration activities during construction of the island and afterwards to ensure that habitat is constructed in a way that best meets the needs of native mussels, birds, reptiles, amphibians, and plant communities. By preparing this scientifically grounded report in concert with other design activities, MPRB can ensure that the people of Minnesota will see and learn about a functioning native ecosystem.

Ongoing maintenance and management will be funded by leveraging adjacent private development, creating a self-sustaining fund that will be directed to upkeep of the island and park site, including habitat enhancements planned through this request.

C. Funding History:

Funding Source and Use of Funds	Funding Timeframe	\$ Amount
Site acquisition: MPRB tax levy, Metropolitan Council Regional Park Acquisition Opportunity Fund, Clean Water Land and Legacy Amendment	2010-2014	\$7,700,000
Environmental remediation of Scherer site: Hennepin County Brownfield Cleanup Revolving Loan Fund	2010-2014	\$1,000,000
		\$

VIII. REPORTING REQUIREMENTS:

- **The project is for one year, will begin on 07/01/2017, and end on 07/01/2018.**
- **Periodic project status update reports will be submitted February 1 of each project year.**
- **A final report and associated products will be submitted between June 30 and August 15, 2018.**

IX. VISUAL COMPONENT or MAP(S): see attached

Environment and Natural Resources Trust Fund
M.L. 2017 Project Budget



Project Title: *Mississippi River Habitat Restoration at Hall's Island*

Legal Citation: *Fill in your project's legal citation from the appropriation language - this will occur after the 2017 legislative session.*

Project Manager: *Adam Arvidson*

Organization: *Minneapolis Park and Recreation Board*

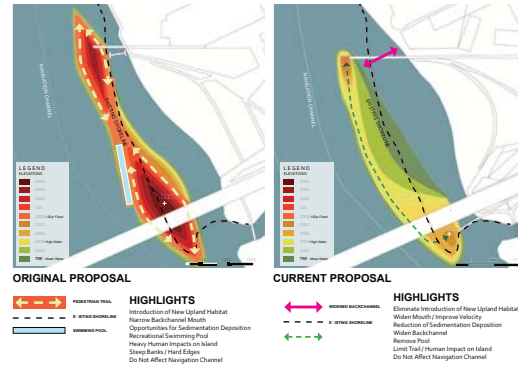
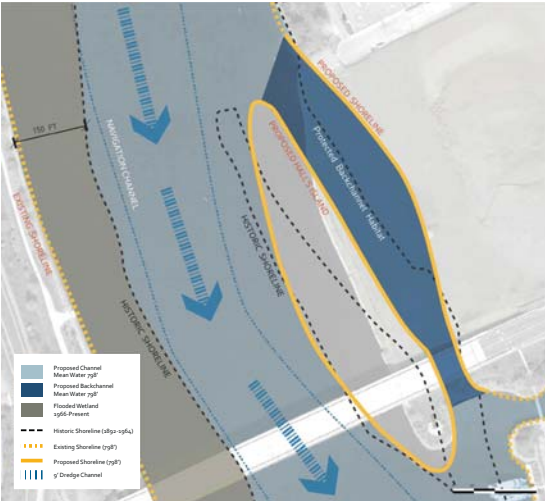
M.L. 2017 ENRTF Appropriation: *\$25,000*

Project Length and Completion Date: *one year, July 1, 2017 to July 1, 2018*

Date of Report: *October 14, 2016*

ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET	Activity 1 Budget	Amount Spent	Activity 1 Balance	TOTAL BUDGET	TOTAL BALANCE
BUDGET ITEM	<i>Habitat Restoration and Wildlife Reintroduction Plan</i>				
Professional Contracts	\$25,000	\$0	\$25,000	\$25,000	\$25,000
<i>All listed personnel will work under contract to MPRB as part of the project's overall design team. They are specialized personnel, but will be paid on a hourly basis, not as a portion of salaries: David Zumeta, independent forester and ornithologist; Mike Davis, Minnesota DNR mussel researcher; herpetologist to be determined; plant restoration ecologist to be determined</i>					
COLUMN TOTAL	\$25,000	\$0	\$25,000	\$25,000	\$25,000

HALL'S ISLAND

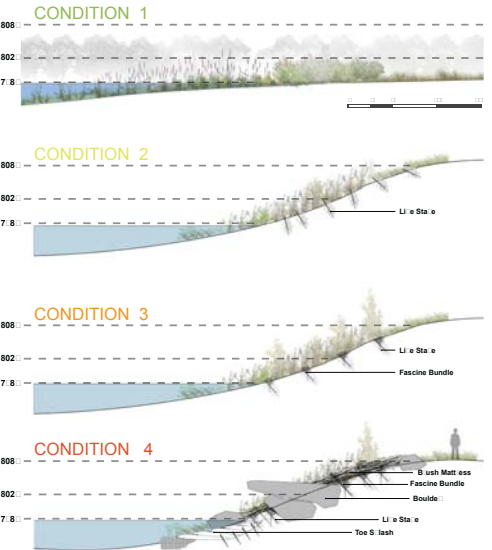


BIODIVERSITY CONCEPT DIAGRAM

CREATE UNIQUE HABITAT ZONES ALONG ECOLOGICALLY IMPOVERISHED STRETCH OF MISSISSIPPI RIVER

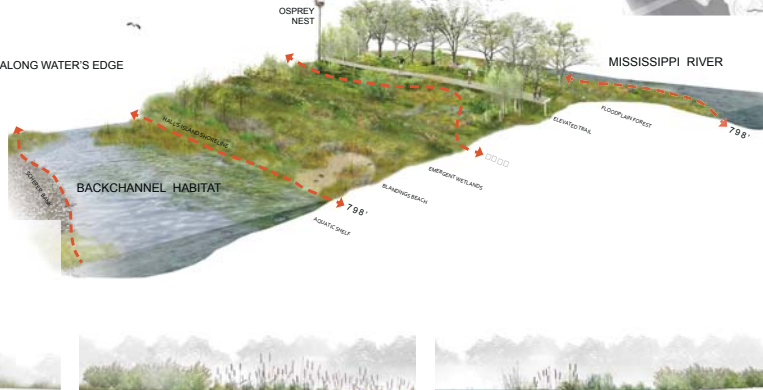
EDGE CONDITION TREATMENTS

SHORELINE RESPONSE TO ALLOWABLE WATER VELOCITIES



HABITAT SECTIONS

CONTRIBUTE TO MORE DIVERSE VEGETATIVE ZONES ALONG WATER'S EDGE



FLOODPLAIN FOREST - ZONE A

EMERGENT HABITAT - ZONE B

WET PRAIRIE HABITAT - ZONE C



HISTORY OF SITE

CREATE UNIQUE HABITAT ZONES ALONG ECOLOGICALLY IMPOVERISHED STRETCH OF MISSISSIPPI RIVER



Before 1892 - 1965 : HALL'S ISLAND INTACT

1966-2010 : SCHERER INDUSTRIAL USE

PROPOSED PLAN



Island Provides Backchannel Habitat
Wetland Habitat along Western Bank
Access to River Edge
Narrower Navigation Channel
Migration Stopping Point along Mississippi Flyway

River Widened
Site Paved
Heavy Industrial Use
No Access to River Edge
Stormwater Runoff

Riprap Armored Edges
Sheet Piles
Harsh connection to River

Improve Biodiversity Opportunities
Create Softer Connection to Water
Provide Migratory Flyway Stopover within Urban Corridor
Maintain Existing Navigation Channel