

**MISSOURI-MADISON RIVER FUND RECREATION PROJECT
GRANT APPLICATION FORM – FY2022**

Project Name: Missouri River North Bank Stabilization, Phase 2

Reservoir or River Segment: Great Falls Area County(ies) Cascade

Site Name (or project location): S01, T20N, R03E, IN CONT LTS 1-2 MK 9 South Berm

Applicant Name: Patty Rearden

Position and Agency: Park and Recreation Department, City of Great Falls MT, Deputy Director

Telephone: 406-771-1265

Email: prearden@greatfallsmt.net

Project Sponsor Name: Patty Rearden

Position and Agency: Park and Recreation Department, City of Great Falls MT, Deputy Director

Telephone: 406-771-1265

Email: prearden@greatfallsmt.net

Project Cost Breakdown and Financial Request:

Complete the financial section below by providing total project cost (to the nearest dollar), contributions by applicant and cooperators, request for NorthWestern Energy match of agency funds (see detailed instruction), and River Fund Grant request. Document in-kind contributions by public agencies for determination of NorthWestern Energy match request. A description of funding sources and in-kind contributions should be included in the Project Description.

Total project cost:	<u>\$474,944</u>	
Applicant Contributions – cash	<u>\$58,736</u>	
Applicant Contributions – value of in-kind:	<u>\$</u>	
Other Contributions – Please list by source:		
<u>HGMP Grant</u>	<u>\$356,208</u>	
	<u>\$</u>	
	<u>\$</u>	
	<u>\$</u>	Percentage of Total Project Cost:
Total Applicant and Other Contributions:	<u>\$414,944</u>	<u>88%</u>
NorthWestern Energy Match Request:	<u>\$30,000</u>	<u>6%</u>
River Fund Grant Request:	<u>\$30,000</u>	<u>6%</u>

Proposed Project Implementation Period: 2023 Construction

Note: Potential to fund 97.9% (\$58,736) from NorthWestern Energy Match Funds.

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1. Has this project been previously submitted for funding consideration by the River Fund Board, either as a separate project or part of another project? Yes No

If yes, please identify which years the application was submitted and, if the project was previously funded, list the amount funded by year.

Grant funding for Phase 1 construction was awarded in December 2017.

2. Is the proposed project at one of the Project 2188 license sites identified in the Missouri-Madison MOU and listed on page A2-2 of the Comprehensive Recreation Plan? Yes No

3. **Project Description:** Provide a description of the proposed project. Be sure to include specific project elements that are planned, and any associated cost detail.

- The primary goal of Phase 2 of the shoreline stabilization project is to continue the preservation of the Black Eagle Reservoir shoreline and eliminate erosion along the approximate 765-foot stretch of the reservoir all while providing protection for the recreational Rivers Edge Trail and Black Eagle sewer main that parallels the reservoir along the top of the shoreline. The proposed improvements will ensure the preservation of the shoreline and will improve the water quality of the Black Eagle Reservoir by eliminating erosion. The goals of the project include preservation of the pedestrian trail, preservation of the City sewer main, development of aquatic and riparian habitat, and conservation of soil. The proposed project will entail the implementation of Alternative 3a, Riprap with blended soils/willows at the toe of the slope and a graded slope with erosion protection. Phase 2 will include the second half of Reach 2 and all of Reach 1. Alternative 3a would be used for both reaches and consists of stabilizing with the use of rock riprap coupled with soils/willows at the toes of the slope and the use of permanent erosion control mats and native vegetation from the riprap to the top of the slope. We anticipate to fund this project 75% of the funding will be made available through an HGMP grant (Hazard Mitigation Grant Program through Montana DES). The City is contributing approximately half of the 25% match money and is submitting this grant request for the remaining funds needed.

Timeline:

HMGP Grant (DES Funding)	
September 24, 2021	HMGP grant application submitted to FEMA
December 2021	Notification whether the HMGP grant is awarded
Upon approval of the grant:	
December 2021	FEMA grant award
June 2022	FEMA and DES environmental review finalized
December 2022	FEMA/DES contract with City finalized
January–December 2023	Design and Permitting
January–March 2024	Project bidding
June–August 2024	Project construction
September-December 2024	Project close out

4. **Cultural Resource Management:** Summarize how you will complete requirements for Cultural Resource Management.

- ▶ The North Bank Stabilization Preliminary Engineering Report, completed by WWC Engineering included a CRM review.

5. **Scoring Criteria.** Respond to the following Scoring Criteria in no more than two (2) additional written pages. Put answers in the cell after ►.

5.1 Project is for operation and maintenance of an existing recreation site or an existing Project 2188 license site. Describe how the project would support O&M needs at an existing recreation site that are over and above day-to-day site maintenance. Needs may include measures to open a site for public use as well as minor repair; facility upgrade, reconstruction, and replacement; and major site rehabilitation.

- The operation and maintenance (O&M) duties associated with the sloughing and destabilization the project area is experiencing will be reduced if not eliminated as result of this project. Presently, due to the eroded state and erosive conditions of the project area, O&M tasks include repair or replacement of the irrigation system that irrigates the adjacent River's Edge Trail corridor; gabion basket (erosion control) repair, clearing of debris, noxious weed removal, as well as frequent inspections of the shoreline” The stabilization proposed in this project would end these erosion based maintenance tasks.

5.2 Project involves collaboration with other agencies or organizations. Identify project partners other than NorthWestern Energy or River Fund, if any, and describe their participation. Document all funding sources and all in-kind support and services to a project, because all are sources of partnerships and in-kind contributions from public agencies qualify for calculation of NorthWestern Energy matching funds. If there are no project partners, explain why.

- The inception of this project stems from an assessment completed in 2002 under contract by the Cascade Conservation District (CCD) in cooperation with the City of Great Falls, Cascade County, Recreational Trails Inc., and North Western Energy. The most current project team includes representatives of WWC Engineering, the City of Great Falls Public Works and Park and Recreation Departments, the Rivers Edge Trail Foundation, Montana Disaster & Emergency Services, and the Cascade Conservation District.

5.3 Project provides a benefit to public recreation in the Project Area and addresses specific issues and goals of the Missouri-Madison Comprehensive Recreation Plan (CRP). Identify how the project provides a benefit to public recreation. Describe how specific issues and goals in Chapter 2-1 of the CRP would be supported.

- The North Bank Stabilization project will provide a direct recreational benefit to the corridor and community as a whole through stabilization of the Rivers Edge Trail North Loop connection and protecting the City Sewer main. As the erosion continues, it will expose and potentially damage the sewer main. At that point the River's Edge Trail would also suffer extensive damage. A trail disconnection would end many users ability to access the quickly developing West Bank area and disconnect a trail system loop that has been long serving the community of Great Falls. To stabilize this area would ensure access to the West Bank development. Maintaining the trail loop is also paramount in supporting a number of annual and nonprofit based recreational activities such as races, walks and fundraisers that utilize the loop in their recreational community outreach efforts.

5.4 Project responds to a clearly identified need. Describe and document the need for this project and how the project would address that need. Cite specific sources, as possible, to establish need and support the project. Discuss consequences if the funding request is unsuccessful. For a new construction or acquisition project, identify how post-project, long-term costs (such as site maintenance and management) will be provided.

- Implementation of the recommended improvements to the shoreline will have a long term beneficial impact to the environment, and eliminate the potential for a public health disaster by protecting the City of Great Falls sewer main from rupturing and spilling raw sewage into the reservoir. A sewer main break would not only lead to costly repairs for both the sewer main and the River's Edge Trail, it

would also have poor implications in terms of recreation and overall community health and public safety along the Missouri River Corridor.

5.5 Project design options have been considered, estimated, and a preferred design selected. Well-designed projects reduce occurrences of budgetary overages, design changes, and additional complications. Discuss the current design phase for this project and include cost estimates.

- ▶ WWC Engineering has been retained to prepare design and construction documents for the Phase 1 portion of this project. Currently Phase 1 design is at approximately 50% completion and permit applications are being prepared. Phase 2 design will begin as funding becomes available. The estimated costs for Phase 2 is \$474,944.30.

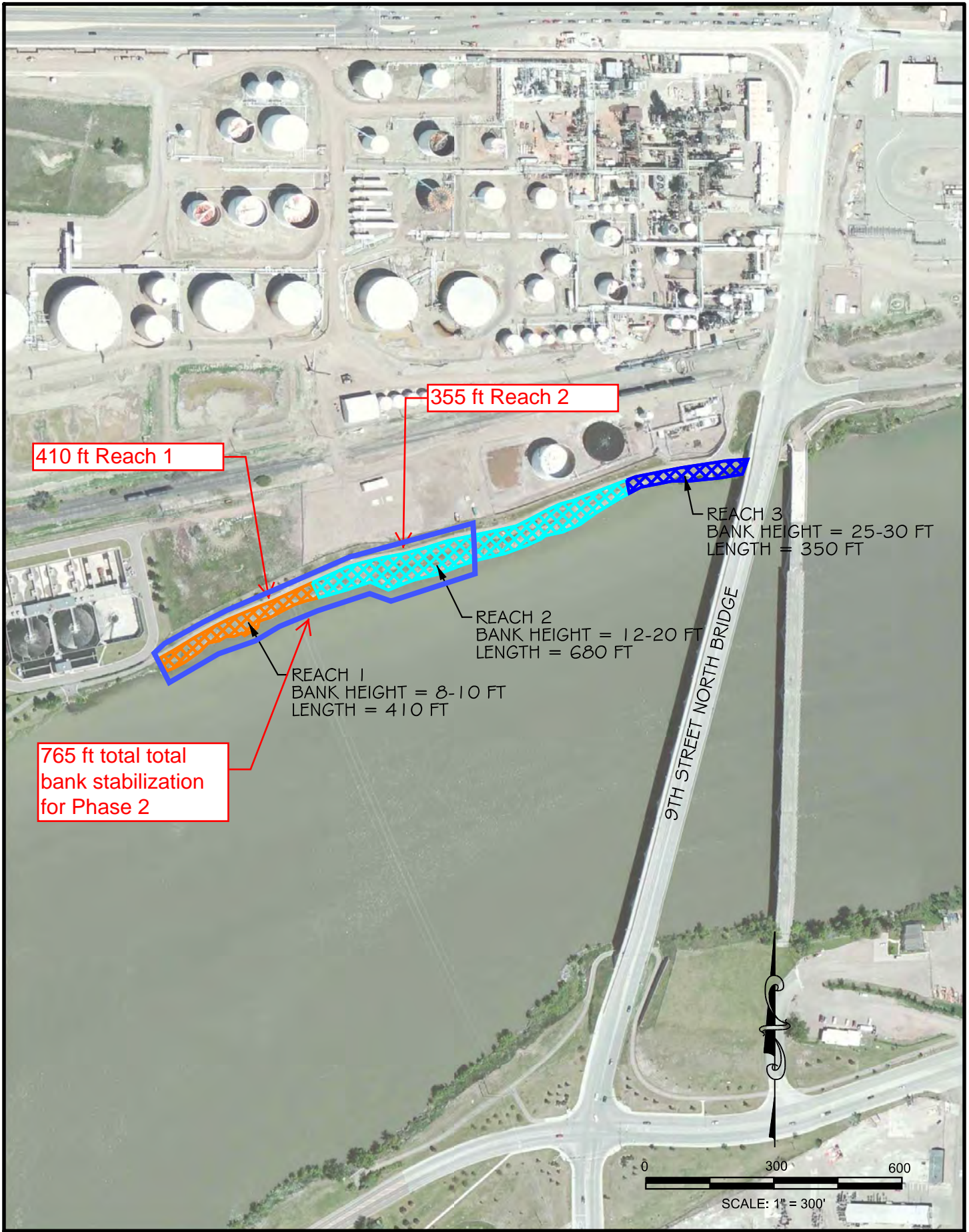
5.6 Project supports or protects other resources and is consistent with or supports resource plans in the Project Area. In addition to project-related benefits under #3 above, describe how this project will protect resource values (such as public access, water quality, fisheries, wildlife, habitats, and cultural resources) and support other resource plans, including Project 2188 License plans and land use and land management plans in place in the Corridor.

- ▶ The project will result in repairing the river bank upstream of the 9th Street Bridge on the north bank of the Missouri River. Providing bank stabilization measures along this stretch of reservoir will provide protection for the pedestrian path and sewer line; eliminate erosion and safety hazards; and reduce sediment deposition into the river. The incorporation of bio-engineered design elements into project will enhance riverine and wildlife habit.

6. Insert map(s) showing the location of the proposed project, drawings and design work related to the project, and a reasonable number of photos (as available) here.

North Bank Stabilization Project Photos





URBAN CORRIDOR/BLACK EAGLE RESERVOIR PROJECT

Project Site Map

DSGN	DATE	CKD
RDN	8/15	STH
REV	DATE	CKD

CASCADE CONSERVATION DISTRICT
 12 3rd St. NW, Ste. 300
 Great Falls, MT 59404
 (406) 727-3603

WWC ENGINEERING
 1275 MAPLE STREET, SUITE F
 HELENA, MT 59601
 (406) 443-3962

EXHIBIT 1

JOB # _____
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