

Information for File # 2013-01087-MMJ; Big Island Bank Stabilization Project – Lake Minnetonka

Applicant: Minnehaha Creek Watershed District

Corps Contact: Melissa Jenny

Address: U.S. Army Corps of Engineers

Attn: Regulatory Branch

180 E. 5th St., Suite 700

St. Paul, Minnesota 55101

E-Mail: Melissa.m.jenny@usace.army.mil

Phone: 651-290-5363

Primary County: Hennepin

Location: Section 22, T. 117 N., R. 23 W.

Information Complete On: 4/3/2013

Posting Expires On: 4/15/2013

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

PROJECT PURPOSE AND DESCRIPTION: The purpose of the proposed project is to stabilize approximately 1,200 linear feet of Lake Minnetonka shoreline, including actively eroding, steep bluffs located on the north side of Big Island. The majority of the proposed bank stabilization activities would involve bio-engineering techniques, including: jute fabric, coir rolls, live stakes of willow and dogwood, native prairie seeding, and trees and shrubs. The project would also involve the re-use and placement of new rip rap along the lower portion of the eroding shoreline.

All of the materials would be brought to the project site via barge. There would be no excavation into the bluffs, and there would be no access or staging of any project related materials, equipment, or personnel on Big Island.

NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: The project would involve the placement of rock rip rap along the shoreline of the lake, which would result in the discharge of fill material over approximately 6,000 square feet (1,200 feet long by 5 feet wide) below the ordinary high water level (OHWL, 929.4') of Lake Minnetonka.

All plantings and bioengineering techniques shown on the attached plans involve placement of fill above the OHWL of the lake. The project as proposed would not impact any wetlands.

ALTERNATIVES CONSIDERED: The no-build alternative was considered, but was dismissed because it would not fulfill the overall project purpose; to stabilize the actively eroding banks on the north side of Big Island. Another alternative considered included hard-armoring the entire eroding bank, but this was also dismissed because it would adversely impact a larger area of lakebed below the OHWL of Lake Minnetonka. The applicant's preferred alternative, as proposed, would minimize impacts to the lakebed by incorporating bio-engineering techniques and by concentrating stabilization activities above the OHWL of the lake.

COMPENSATORY MITIGATION: This bank stabilization project would utilize mostly bio-engineered/natural materials, and is meant to improve the resource. The project would not result in the loss of wetland functions, and the shoreline habitat would be enhanced with the planting of native vegetation. Compensatory mitigation would not be required for this project.

Drawings: See attached, labeled as 2013-01087-MMJ, Figures 1-10.

(Figures 1-5 include the proposed project plans. Figure 6 shows the proposed project location, and Figures 7-10 include before and after pictures of similar bank stabilization projects recently completed on Big Island.)

BIG ISLAND DESIGN - PHASE 2

LAKE MINNETONKA

ORONO, MN



1 PLAN: PROJECT LOCATION MAP

SHEET INDEX	
NO.	SHEET NAME
G-01	COVER SHEET AND SHEET INDEX
C-01	PROPOSED CONDITIONS PLAN VIEW
C-02	PROPOSED CONDITIONS CROSS SECTIONS
C-03	BANK STABILIZATION DETAILS
C-04	BANK STABILIZATION DETAILS

ENGINEER:
 BARR ENGINEERING CO.
 4700 WEST 77TH STREET
 MINNEAPOLIS, MN 55435
 PH: 800-632-2277
 FAX: 952-832-2601
 WWW.BARR.COM
 CONTACT: JEFF LEE, SENIOR ECOLOGICAL PLANNER
 JEFF WEISS, CIVIL ENGINEER

OWNER:
 MINNEHAHA CREEK WATERSHED DISTRICT
 18202 MINNETONKA BOULEVARD
 DEEPHAVEN, MN 55391
 PH: 952-471-0590
 CONTACT: RENAE CLARK



GOPHER STATE ONE CALL:
 CALL BEFORE YOU DIG.
 1-800-252-1166

path: M:\Design\23270123\G-01.DWG Plot: et 0 09/28/2012 13:59:46

NO. BY CHK APP DATE		REVISION DESCRIPTION		I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: <i>[Signature]</i> PRINTED NAME: JEFF WEISS DATE: 10/17/2012 REG. NO.: 48031		CLIENT: BARR ENGINEERING CO. PROJECT: CONSTRUCTION RELEASED TO/FOR: A B C O 1 2 3 DATE RELEASED:		 Project Office: BARR ENGINEERING CO. 4700 WEST 77TH STREET MINNEAPOLIS, MN 55435-4803 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com		Scale: AS SHOWN Date: 10/17/2012 Drawn: PEB Checked: JDW Designed: BARR Approved:		MINNEHAHA CREEK WD DEEPHAVEN, MINNESOTA		BIG ISLAND DESIGN - PHASE 2 ORONO, MINNESOTA COVER SHEET AND SHEET INDEX		BARR PROJECT No. 23270123.03 CLIENT PROJECT No. DWG. No. G-01 REV. No. 0	
---------------------	--	----------------------	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--

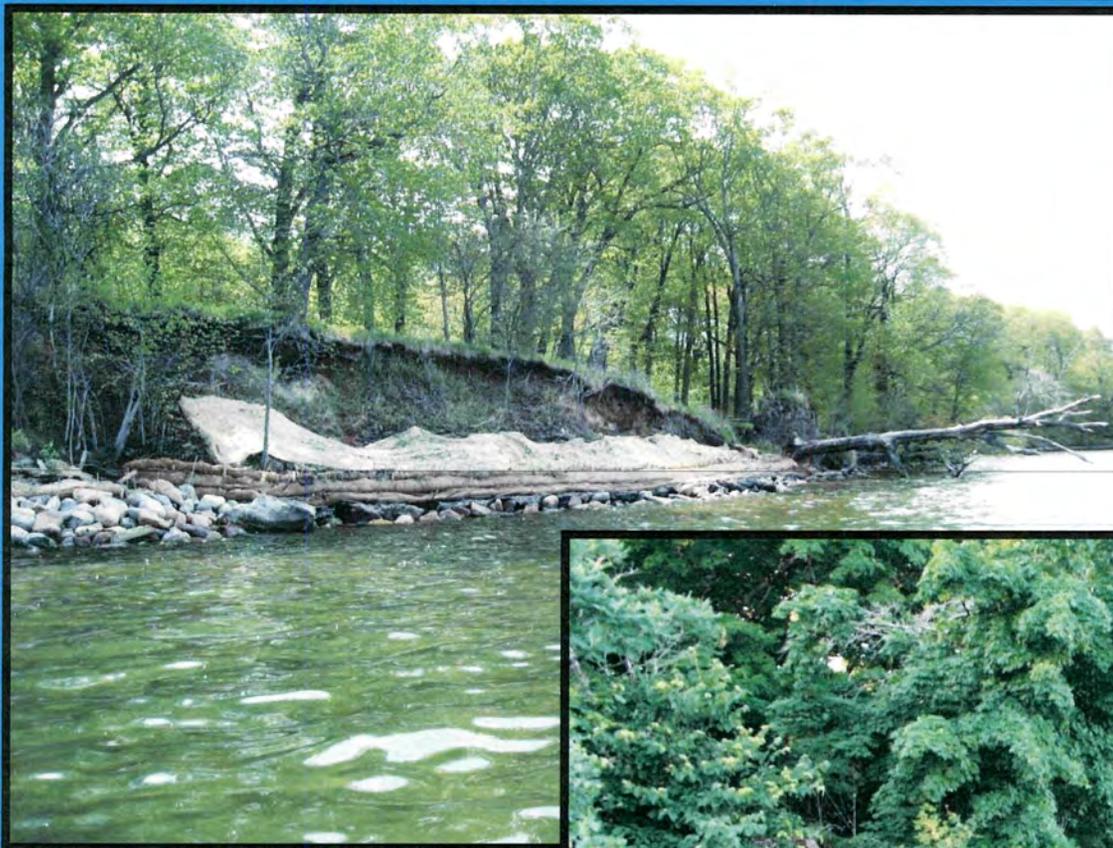
Proposed Project Area – North Shore



North Shore example



North shore example





South shore example

South shore example

