

## Information for: File # 2014-04233-EJI

Applicant: George Donovan  
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Phone: (651) 290-5765  
Primary County: Douglas, Minnesota  
Legal Description: NE ¼ Section 5, Township 128 North, Range 37 West  
Complete On: 19 November 2014  
Posting Expires On: 3 January 2014  
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 water body and/or wetland impacts and compensatory mitigation requirements identified above. Approved jurisdictional determinations are posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project:

### PROJECT DESCRIPTION AND PURPOSE:

The proposed project is to stabilize a portion of shoreline on Lake Le Homme Dieu. The project would disturb approximately 720 linear feet of the shoreline and would include approximately 4,320 square feet of fill placed into Lake Le Homme Dieu. The applicant is proposing to stabilize the shoreline with natural rock riprap. The project would include bank shaping and the installation of 400 linear feet of riprap meeting the MN DNR standard and 320 linear feet of riprap utilizing the DNR design with the addition of no more than 60 large boulders with an average size of 3-5 feet diameter.

## WATERS OF THE UNITED STATES SUBJECT TO LOSS:

The proposal would place fill material in approximately 720 linear feet of Lake Le Homme Dieu and would include approximately 4,320 square feet of fill placed in Lake Le Homme Dieu.

## ALTERNATIVES CONSIDERED:

### **Project Alternatives**

#### Alternative A: No Build

The lakeshore at the proposed project site would continue to erode in its current condition. As a result, water quality and shoreline habitat would continue to degrade. Therefore, this option was not deemed feasible.

#### Alternative B: Rip-Rap Bank stabilization

This alternative would consist of hard armoring the full 720 feet with riprap according to the MN DNR typical drawing. Although this alternative would reduce erosion impacts, the alternative would not provide riparian habitat or be aesthetically preferred in this area. This option was not chosen due to the absence of the habitat, aesthetic values and added protection offered in the chosen alternative.

#### Applicant Preferred Alternative: Rip-Rap Bank stabilization w/native plants

This project proposes shoreline stabilization by installing standard rock riprap along the west 400 feet of shoreline and a combination of riprap with larger boulders and native vegetation along the remaining 320 feet that will wrap around the end of the point. The project design will address shoreline erosion problems caused by wave action from increased boat traffic and ice action on Lake Le Homme Dieu. The proposed improvements would include excavation and stabilization activities above and below the OHW elevation of 1357.2. The designed stabilization measures for the proposed project would include the following:

1. Installation of natural rock riprap. The majority of rock being 6-30 inches in diameter with larger 3-5 foot boulders buried 80% into the lake bed and staggered 10 to 15 feet apart.
2. Planting native plants within riprap in order to help anchor the riprap and enhance shoreline habitat.

The proposed stabilization measures were chosen based on the integration of commonly used and accepted techniques to meet the stabilization objectives at the site.

COMPENSATORY MITIGATION:

Because this project is shoreline stabilization proposed with native plantings no mitigation would be required.

Drawings      See attached.

Specifications for Donovan Property Shoreline 9/30/14

Stage 1. 400 lineal feet starting at the NW property corner

**RipRap Stage 1:**

- \*400 lineal feet of standard DNR spec RipRap average size 30"
- \*Remove existing sand bags that are not buried
- \*Install heavy felt fabric under entire work area including large boulders

Stage 2. 320 lineal feet starting 400 feet from NW property corner including around the end of the point on the east

**RipRap Stage 2:**

- \*420 lineal feet of RipRap with Large Toe Boulders
- \*Large toe boulders to be buried approximately 75%, with flat side up
- \*The toe of large boulders to be buried and sloping up at least a 3:1 angle
- \*Remove existing sand bags that are not buried
- \*Install heavy felt fabric under entire work area including large boulders

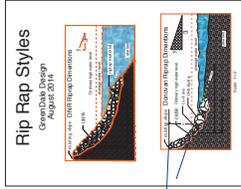
**Clean-up:**

- Remove all excess materials from site
- Fill soil behind RipRap and grade and seed and cover with seed mat

320' of special RipRap with large boulder toe rocks embedded deep into the lake bottom including point

400' of Standard DNR RipRap 400'-0"

OHW 1357.2



GreenDate Design  
old hands at new design

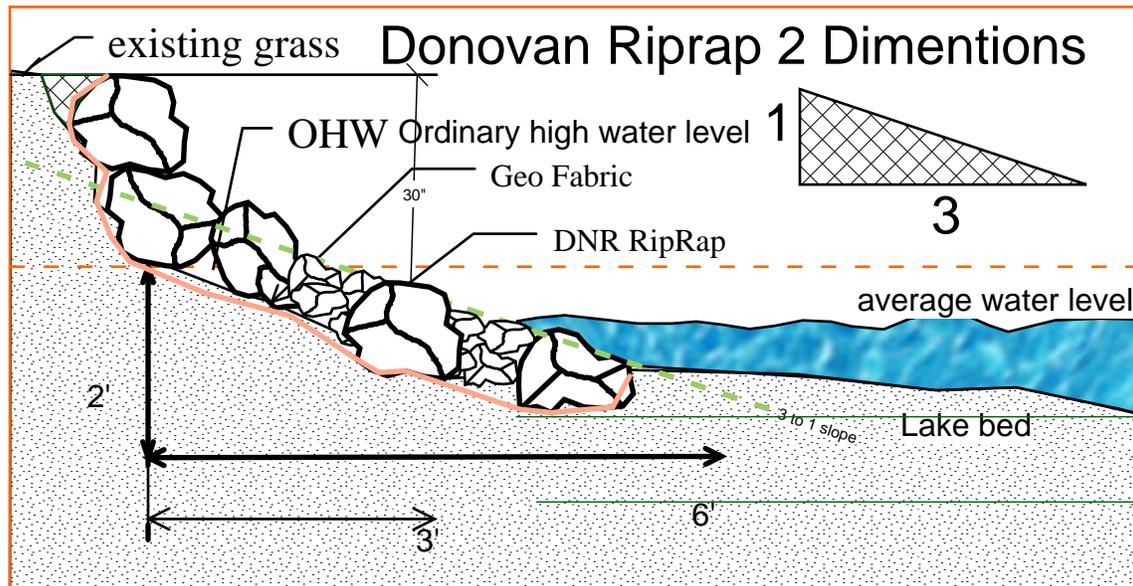
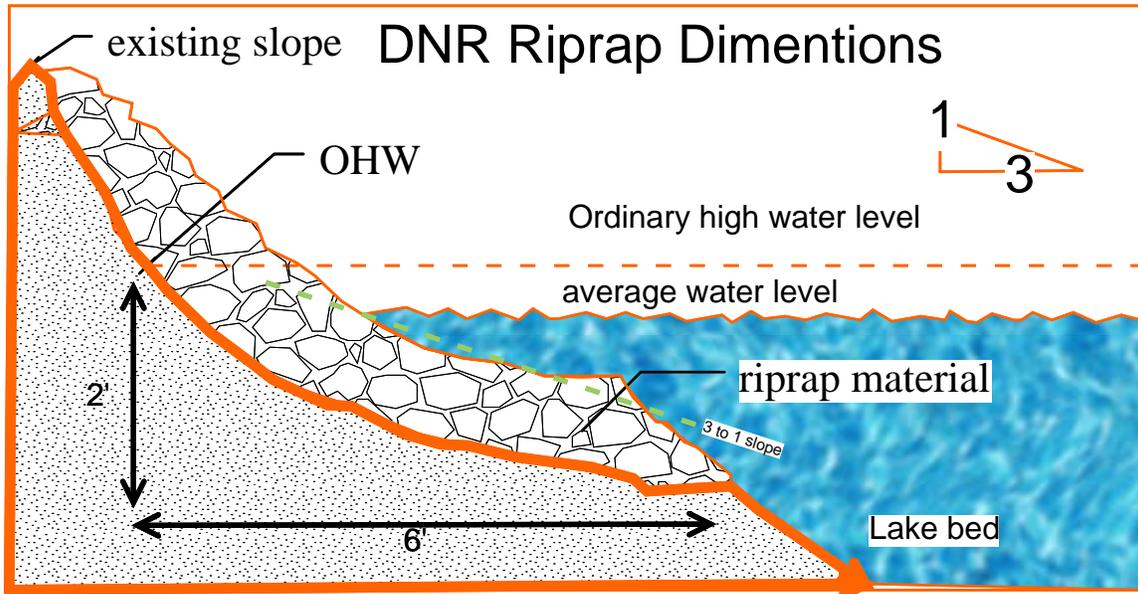
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Scale: 1 inch = 30 feet  
Sept. 30, 2014

# Rip Rap Style 2

GreenDale Design  
August 2014



Scale 1"=2'