

## Memorandum

**To:** Bassett Creek Watershed Management Commission  
**From:** Barr Engineering Co.  
**Subject:** Item 5E – 226 Peninsula Road – Medicine Lake  
BCWMC November 16, 2016 Meeting Agenda  
**Date:** November 8, 2016  
**Project:** 23270051 2016 2094

### 5E 226 Peninsula Road – Medicine Lake BCWMC 2016-26

#### Summary:

**Proposed Work:** Replace existing single family home driveway and site grading

**Basis for Commission Review:** Work within the floodplain

**Impervious Surface Area:** Increase 1,779 sq. ft.

**Recommendation:** Approval

#### General Background & Comments

The proposed project includes demolition of the driveway and detached garage at an existing single family home and construction of a new driveway and site grading at 226 Peninsula Road in the City of Medicine Lake. The project is located at the northern end of the southern peninsula in the Medicine Lake direct subwatershed. The project parcel is 0.57 acres. Approximately 12,800 square feet will be graded resulting in an increase of 1,779 square feet of impervious surface from 8,026 to 9,805 square feet.

#### Floodplain

The project is located within the Medicine Lake floodplain (elevation 890.3). Site grading will result in increasing the flood storage at the site by 8.6 cubic yards.

#### Wetlands

The BCWMC is the LGU for administering the Minnesota Wetland Conservation Act (WCA) of 1991 in the City of Medicine Lake. There are two wetlands located in the southeastern portion of the site. An application was submitted for a request for delineation review, wetland type determination, and jurisdictional determination on July 28, 2016. On behalf of the BCWMC, Barr Engineering Co. reviewed and provided administrative approval of the wetland delineation and wetland type determination on September 14, 2016. Both wetlands are Type 2 fresh (wet) meadow wetlands. As part of the project, the wetlands will be excavated to provide compensatory floodplain storage for the floodplain fill resulting from the driveway construction. The wetlands will be excavated and converted to Type 4 deep marsh wetlands. Under the MN Wetland Conservation Act, excavation in Type 2 wetlands is not

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considered an impact as long as the excavation does not result in filling, draining, or conversion to nonwetland; therefore, the proposed excavation is allowable under MN WCA.

## **Stormwater Management**

Under existing and proposed conditions the northern portion of the site drains north toward Medicine Lake and the southern portion of the site drains to the wetlands in the southeastern portion of the site.

## **Water Quality Management**

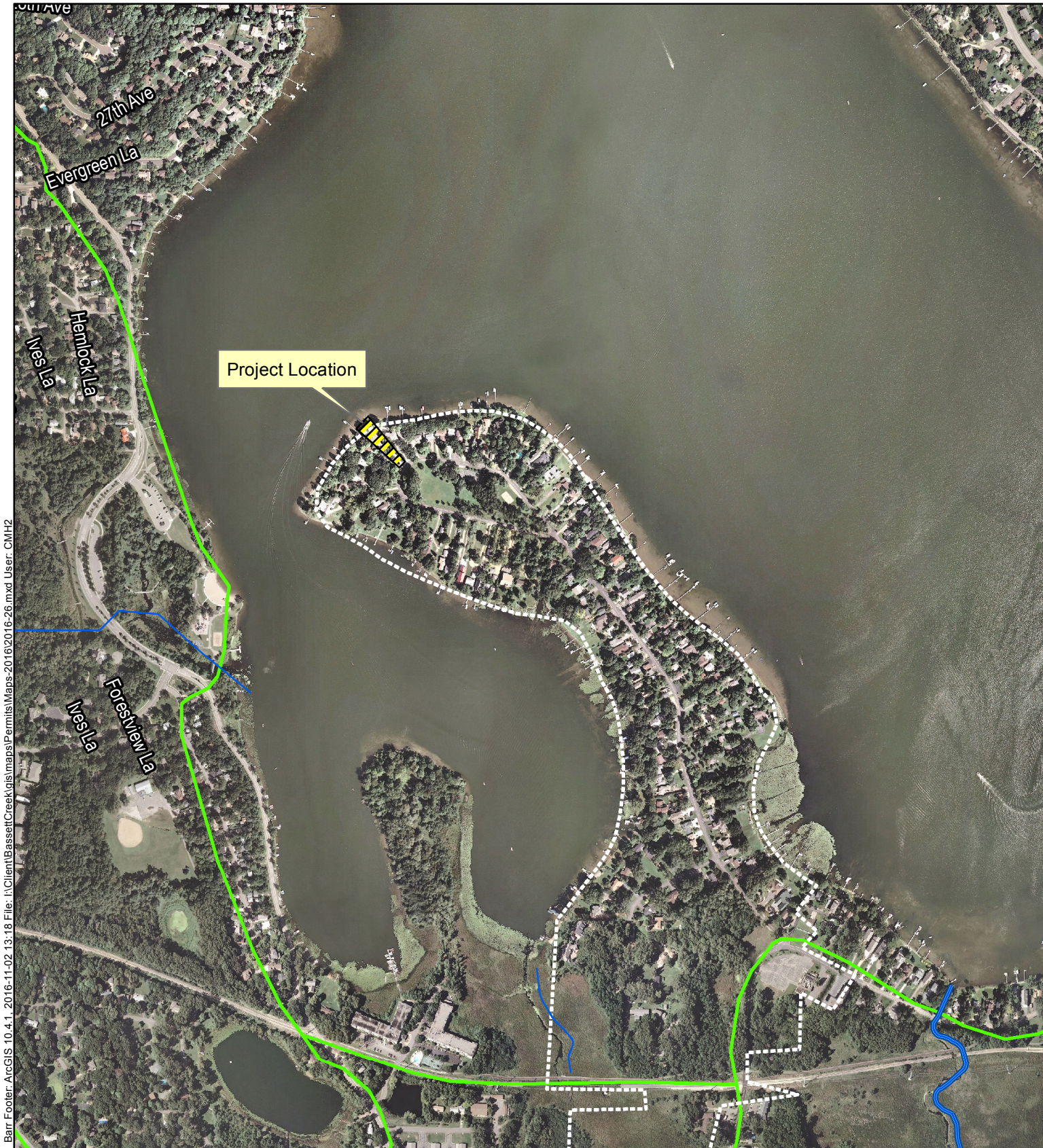
There is currently no constructed water quality treatment provided on the site. Because the project is creating and/or reconstructing less than one acre of impervious surface, no water quality treatment is required on-site by the BCWMC.

## **Erosion and Sediment Control**

Although single family homes are exempt from the BCWMC erosion control review, an erosion control plan was provided. The City of Medicine Lake should review the erosion control plan, if required by city ordinances. Proposed temporary erosion control features include silt fence, a rock construction entrance, and inlet protection.







## **Recommendation**

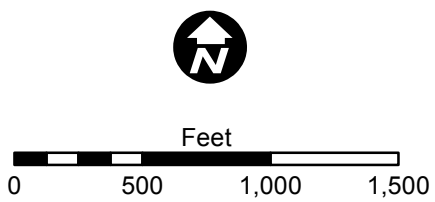
Approval; however, it is recommended that the applicant restore disturbed areas adjacent to the wetlands with a native seed mix.



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Imagery Source: Aerial Express (2009)

-  Project Location
-  Bassett Creek
-  WMC Boundary
-  Major Subwatershed
-  Municipality
-  Stream



**LOCATION MAP**  
**APPLICATION 2016-26**  
**226 Peninsula Road**  
**Medicine Lake, MN**