

# FLOODPLAIN ASSESSMENT

FLOODPLAIN ENCROACHMENT		
Floodplain	Type of Encroachment	Length, ft
Rice Lake DNR PWI No. 27-0116, Existing Bride No 27969	Transverse	50 feet
Rice Lake DNR PWI No. 27-0116, Existing Bridge No 27968	Transverse	50 feet
Rice Lake	Longitudinal	4740 feet
Rush Creek, Existing Bridge No 91178	Transverse	30 feet
Rush Creek	Longitudinal	1200 feet
North Fork of Rush Creek	Longitudinal	1400 feet

*\*See figure for location*

## TRANSVERSE or LONGITUDINAL ENCROACHMENT

1. There is no significant potential for interruption of a transportation facility which is needed for emergency vehicles or provides a community's only evacuation route.

a. Is the roadway grade above the 100 year flood elevation? **YES**

NO Frequency of overtopping **500-Year**

Reason(s) why roadway grade will not be raised: **N/A**

Are there reasonable alternative routes available that are above the 100 year flood elevations? **YES**

b. If the 100 year flood elevation is not known, does roadway have a history of overtopping?

NO Reference and length of record

N/A Discuss correcting deficiency

c. Describe how emergency services will be maintained during construction:

**Emergency vehicles will continue to have access via the existing roadways**

2. There is no significant impact on natural and beneficial floodplain values.

a. Impacts:

	Beneficial Impacts	Adverse Impacts
Fisheries	None	N
Wetlands	N	N
Plants	N	N
Open	N	N

Space/Aesthetics		
Public Access (boat/canoe)	N	N
Channel Changes	N	N
Boat Passage	N	N
Threatened/Endangered Species	N	N
Water Quality	N	N
Other	N	N

b. Minimization/Mitigation Measures: Wetland impacts due to the project will be mitigated. Water quality best management practices will be provided for the project impervious.

**Project will be in compliance with all permit requirements, including NPDES, SWPPP, Minnesota DNR, and US Army Corps of Engineers.**

3. There is no significant increased risk of flooding.

a. Does the project result in any headwater or tailwater elevations that would endanger life or property? **NO**

Stage Increase **N/A**

b. Are there any special hydraulic features? What is their purpose? **N/A**

4. The project will not support and/or result in incompatible floodplain development.

Reason(s) why project will not cause incompatible floodplain development:

- No significant increased risk of flooding will result.
  - There are no known flooding problems at the Rush Creek or Rice Lake crossings.
  - There is no apparent flood damage potential upstream because no changes are proposed to the existing bridges
  - No significant change in the headwater or tailwater elevations will result. The floodplain impacts due to Brockton interchange will be mitigated at 1:1 in accordance with local ordinances.
- This project should not result in any incompatible floodplain development.
  - Dayton, Rogers, and Maple Grove have floodplain ordinances that regulate floodplain development. The ordinances conform to the MnDNR floodplain management guidelines.

The project involves widening the highway corridor to add lanes on its existing alignment, avoiding encroachment into the floodplain is nearly impossible given the proximity of the floodplain. The proposed improvements are not expected to result in significant impacts to

the floodway or the 100-year water surface elevation of any of the adjacent FEMA regulated waterbodies.

### **COORDINATION**

Multiple permits will be required for the project, below is a list of the anticipated permits necessary:

- Minnesota Pollution Control Agency Phase II NPDES CSW permit
- Minnesota Pollution Control Agency Section 401 Certification
- Minnesota Department of Natural Resources Construction Dewatering (if necessary)
- US Army Corps of Engineers Section 404 Permit (Letter of Permission)
- Wetland Conservation Act Replacement Plan
- Elm Creek Watershed Management Commission

### **CONCLUDING STATEMENT**

Based on the above assessment, no significant floodplain impacts are expected, and the project is compatible with the floodplain zoning.