

## SHORELINE & STREAMBANK STABILIZATION CHECKLIST

MCWD recommends incorporating plantings and other bio-stabilization methods whenever possible for shoreline & streambank stabilization projects.

- WATER RESOURCES APPLICATION FORM** (electronic signatures accepted)
- EROSION INTENSITY SCORESHEET** (If new project proposed)
- PHOTOS OF EXISTING SHORELINE CONDITIONS**
- SITE PLAN/SURVEY\*** (11"x17" or electronic copy)
- PROPOSED RIPRAP CROSS SECTION\*\***
- EROSION CONTROL PLAN\*\*\***
- BIOLOGICAL STABILIZATION INFORMATION** (If Erosion Intensity Scoresheet indicates)
- \$10.00 APPLICATION FEE** (Payable to MCWD by check or credit card)
- FINANCIAL ASSURANCE**

**14 day public notice is required for all NEW shoreline stabilization projects (not repair projects)**

**\*SITE PLAN OR SURVEY** (11"x17" or electronic):

- Ordinary high water elevation contour (OHW)
- 100-year floodplain elevation contour
- Existing shoreline elevation contour
- Location of existing trees (indicate if they will be removed or retained)
- Property lines
- Plan view of proposed project linear feet
- Elevation contours 15 feet upland from the OHW

**\*\*PROPOSED RIPRAP CROSS SECTION**

- Drawn to scale (horizontal and vertical scales noted on the drawing)
- Finished riprap at a 3:1 or more gradual slope
- Labeled existing bank, OHW and 100 year flood elevation contours
- Riprap no higher than top of bank or 2 feet above 100 year flood elevation (whichever is lower)
- Geotextile filter fabric type (MnDOT 3733 requirements) placed between existing shoreline soil material & filter rock to reduce erosion
- Granular filter (MnDOT 3601.B requirements) at least 6 inches deep
- Granular filter and geotextile conforms to MNDOT standards in sections 3601 and 3733
- Riprap rocks meet MnDOT class III and IV specifications
- Toe boulders buried 50% and are 30 inches or less in diameter



**MINNEHAHA CREEK**  
WATERSHED DISTRICT  
QUALITY OF WATER, QUALITY OF LIFE

- Riprap is no more than 5 feet water-ward from OHW
- Specified underlying soil materials that support riprap

**\*\*\*EROSION CONTROL PLAN**

- Identify proposed access route for all land based application
- Floating silt curtain location
- Indicate if working by barge
- Identify location of any material stockpiles
- Stabilization plan for disturbed areas

**FINANCIAL ASSURANCE**

- Submit a surety in the form of an Escrow, Letter of Credit or Performance Bond in the amount of \$5,000 or \$100 per linear foot if greater than 50 feet.

**BIOLOGICAL & BIOENGINEERING STABILIZATION (if applicable):**

- Identify location and type of plantings in relation to hard armoring material/rip rap location
- Plant list with common and scientific names and/or seed mix (specify quantities and origins of all materials)
- Plants added to shoreline or bank are classified as native aquatic or native upland vegetation: examples include MN DNR ("Landscaping for Wildlife & Water Quality) and/or Minnesota Pollution Control Agency (Plants for Stormwater Design)
- Identify party responsible for plantings with schedule, installation & maintenance plan for three years: include invasive species control and plant replacement as necessary)
- If wave barriers are used, they do not create an obstruction to navigation, are three feet deep or less and removed within 2 years of installation

