COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE:       February 11, 2019
AGENDA NUMBER:      13
FILE NUMBER:        19-031
ITEM:               Durkin Shoreline Stabilization

RECOMMENDATION:     Table with 4 Stipulations

APPLICANT:          Tom Durkin
                     3834 114th Lane NW
                     Coon Rapids, MN 55433

PURPOSE:            Shoreline Stabilization

LOCATION:           3834 114th Lane NW, Coon Rapids, MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work in or adjacent to wetlands, lakes or water courses
3. The lands and waters that have been or may be covered by the regional flood.

EXHIBITS:

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has not received a general review during a pre-application meeting.

Ditches: There is not a public ditch on the property.

Ditch Hydraulics: A crossing of the ditch is not proposed.

Erosion and Sediment Control: Soils affected by the proposal are Hubbard and Nymore.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss. No soil stockpiles are proposed.
- Adjacent properties and stormwater ponds are protected from sediment deposition.
• Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have not been provided.
• No storm sewer outlets are proposed for this project.
• All work adjacent to water or related resource has not taken precautions to contain sediment and stabilize the work area during construction.
• Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
• Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.
• Construction entrance points are clearly located on the erosion and sediment control plan.
• The erosion and sediment control plan does not provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

Dewatering: Shallow ground water does exist on site. The project does not require dewatering.

Floodplain: There is floodplain on the property according to FEMA. The FEMA floodplain elevation is at 840.9 feet. The project does propose to place fill within the floodplain. The total floodplain impact is Unknown. The proposed impact is within the floodway. Compensatory storage calculations not provided. There are no flooding concerns upstream or downstream.

High Water Flooding: No structures proposed as part of this project.

Groundwater: Geotechnical information was not provided and is not needed. No infiltration practices or structures proposed as part of the project.

The project site is not within the Emergency Response Area/10 Year Well Head Protection Area/Drinking Water Supply Management Area.

The proposal does not contain a land use discouraged or prohibited by the Safe Drinking Water Supply Act (SDSA).

Historic Sites: The proposed project does not include sites of historic or archeological significance.

Local Planning & Zoning: It is unknown if the proposed project is consistent with local planning and zoning. The applicant has not applied to the city of Coon Rapids. There is an approved local water plan.

Maintenance: No Stormwater Management features or treatment practices proposed as part of the project.
Easements: The proposed project does not include a ditch maintenance easement. A ditch maintenance easement is not required.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. New site impervious consists of riprap on the riverbank, no treatment required.

Drainage sensitive uses do not exist downstream from the proposed site. The rate of post-development runoff from the site does not exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses. Properties and waterways downstream from the project are protected from erosion due to increases in the volume, velocity and peak water flow rates of stormwater runoff. Concentrated storm water leaving the site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. All on-site constructed storm water conveyance channels are constructed to withstand the expected velocity from a 2-year frequency storm without erosion.

**Water Quality:** The proposed project does not cause an exceedance of State water quality standards. The project does not contribute to the adverse impact of wetlands through inundation or volume of flow. All work adjacent to wetlands, waterbodies and water conveyance systems are protected from erosion. The proposal will not detrimentally affect the existing water quality of the receiving water. The proposal will not cause extreme fluctuations of water levels or temperature changes.

**Impairments:** This project is within one (1) mile of and drains to an Impaired Water. The Impaired Water is the Mississippi River. The Mississippi River is impaired for Aquatic Life (Macro-invertebrates)/ Aquatic Recreation (Fecal Coliform). The major stressors are Total Suspended Solids (TSS)/ Total Phosphorus (TP)/Fecal Coliform. There is not an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

There are new impervious surfaces (rip rap) proposed as part of this project.

**Wetlands:** Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated.

**Wetland Replacement Plan:** A wetland replacement plan has not been submitted and is not required.

**Wildlife:** The proposed project does not include endangered or threatened species, rare natural Communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors. The applicant has not contacted the MDNR natural heritage or endangered species program.

If the project is present, the project does not propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species.
Performance Escrow: $2,030  
Wetland Escrow: $N/A  
There are not ditch liens on the property.

ISSUES/CONCERNS:

<table>
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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tr>
<td>Escrows: $2,000 + (0.06 ac * $500/ac) = $2,030</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>Stormwater &amp; Hydraulics: Project proposes work below the OHW of the Mississippi River.</td>
<td>2. Provide DNR permit for work below the OHW.</td>
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| Soils & Erosion Control: Erosion Control Plan does not meet District requirements. | 3. Update Construction plans with the following:  
  a. Stabilize vegetation within 7 days of rough grading or inactivity.  
  b. Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases.  
  c. Provisions to minimize the transport of sediment (mud) by runoff or vehicle racking onto the paved surface.  
  d. Provisions for cleaning road surfaces where sediment is transported by the end of the day.  
  e. Repair and maintenance of all temporary and permanent erosion and sediment control practices.  
  f. Provide floating silt curtain around project area to prevent sediment from being deposited downstream.  
  g. Provide details for all temporary and permanent erosion control measures. |
| Floodplain: No calculations provided to show floodplain fill/compensatory storage. | 4. Provide floodplain fill/compensatory storage calculations. |
RECOMMENDATION: Table with 4 Stipulations.

Stipulations:
1. Receipt of escrows.
2. Provide DNR permit for work below the OHW.
3. Update Construction plans with the following:
   a. Stabilize vegetation within 7 days of rough grading or inactivity.
   b. Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases.
   c. Provisions to minimize the transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
   d. Provisions for cleaning road surfaces where sediment is transported by the end of the day.
   e. Repair and maintenance of all temporary and permanent erosion and sediment control practices.
   f. Provide floating silt curtain around project area to prevent sediment from being deposited downstream.
   g. Provide details for all temporary and permanent erosion control measures.
4. Provide floodplain fill/compensatory storage calculations.