COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 14, 2017
AGENDA NUMBER: 14
FILE NUMBER: 17-142
ITEM: Maintenance of Private Laterals CD41

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: Rebecca Haug
City of Blaine
10801 Town Square Dr NE
Blaine MN 55449

PURPOSE: To address issues identified in 2015 CCWD Ditch inspection report

LOCATION: County Ditch 41 Private Laterals, Blaine, MN

Figure 1: 2015 Inspection Area, Blaine MN.
APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. Any work in or adjacent to wetlands, lakes or water courses
4. One or more cumulative acres of land disturbance
5. The lands and waters that have been, or may be covered by the regional flood.

EXHIBITS:
1. Map and list of maintenance activities, received 7/25/17

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has received a general review during a pre-application meeting.

Ditches: There is a public ditch on the property. The public ditch is County Ditch 41 according to the public drainage map. County ditch 41 was established in 1904. The ditch was last inspected in 2015 (103E.075 subd 4). The approved elevations through this property are 885.5 ft MSL at the downstream end and 895.4 ft MSL at the upstream end. The 2015 observed elevations through this property are 886.5 ft MSL at the downstream end and 896.3 ft MSL at the upstream end. The observed elevation represent a 1.0-0.9 foot variance from approved. The ditch is a 4th order stream. The ditch serves the primary role of storm water conveyance and a collector system. The ditch serves approximately 0 acres of agricultural land. Land use in the area is single family residential. There are no flooding concerns upstream or downstream. Existing elevations, slopes and condition of ditch are good. The ditch is not in need of repair. Alternatives to repair and additional drainage have been considered and reviewed.

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

Erosion and Sediment Control: Soils affected by the proposal are Millerville and Isanti.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading. SWPPP IV.B. #2
- Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss. SWPPP IV.C. #5
- Adjacent properties and stormwater ponds are not 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 and are not required. SWPPP IV.E.
- Stormwater runoff does not pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity and is not required.
- Stabilization adequate to prevent erosion has not been provided at the outlets of all storm sewer pipes.
• All storm sewer inlets are not protected from sediment-laden water during construction and are not needed.
• 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. SWPPP IV.E. #5
• Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day. SWPPP IV.E. #5
• Construction entrance points are not 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. SWPPP IV.E.

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

**Floodplain:** There is floodplain on the property according to the District model and FEMA. The project does not propose to place fill within the floodplain. The total floodplain impact is 0 acre-feet. Compensatory storage is not needed. There are no flooding concerns upstream or downstream.

**Groundwater:** No geotechnical information has been collected to indicate long term groundwater elevation.

The site is within a Municipal Drinking Water Supply Area (DWSMA).

The project site is within the Emergency Response Area/10 Year Well Head Protection Area/Drinking Water Supply Management Area.

The project does not have an acceptable contingency plan for preventing hazardous materials from contaminating the shallow/surficial aquifer should flood, fire, wind or other natural catastrophe, equipment failure or releases occur.

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

**Local Planning & Zoning:** The proposed project is consistent with local planning and zoning. There is an approved local water plan.

Property owners affected by changes in drainage should be notified.

**Maintenance:** The Owner of the Stormwater Management features and treatment practices is the City of Blaine and various landowners. The ditch is considered the stormwater treatment practice on site.
Inspection and maintenance of stormwater facilities will be the responsibility of the City of Blaine. A maintenance agreement has not been executed and is not necessary.

As a requirement of the City’s MS4 program, the city will inspect and maintain the stormwater facilities.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required.

**Stormwater & Hydrology:**
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 a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. It is unknown if 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 may contribute to the adverse impact of wetlands through inundation or volume of flow. All work adjacent to wetlands, waterbodies and water conveyance systems are not 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 Ditch 41. Ditch 41 is impaired for (Aquatic Life (Macro-invertebrates)/ Aquatic Recreation (E. coli). The major stressors are Total Suspended Solids (TSS)/ Total Phosphorus (TP)/E.coli. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

There are no new impervious surfaces proposed as part of this project.

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

The wetland is not a DNR protected water.

**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.
Performance Escrow: $3400
Wetland Escrow: $ N/A
There are not ditch liens on the property.

ISSUES/CONCERNS:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (2.8 ac * $500/ac) = $3400</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Soils &amp; Erosion Control: Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.</td>
<td>2. Update construction plans to include sediment trapping measures to prevent soil loss.</td>
</tr>
<tr>
<td></td>
<td>Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface. SWPPP IV.E. #5</td>
</tr>
<tr>
<td></td>
<td>Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day</td>
</tr>
</tbody>
</table>

RECOMMENDATION: Approve with 2 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Update construction plans to include sediment trapping measures to prevent soil loss.

Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface. SWPPP IV.E. #5

Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.