COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 14, 2017
AGENDA NUMBER: 15
FILE NUMBER: 17-143
ITEM: Maintenance of Private Laterals CD60

RECOMMENDATION: Approve with 4 Stipulations

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

PURPOSE: To address issues identified in 2014 CCWD Ditch inspection report

LOCATION: County Ditch 60 Private Laterals, Blaine, MN

Figure 1: 2014 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.
6. Endangered, Threatened or Special concern species, elements or communities

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 60 according to the public drainage map. County ditch 60 was established in 1918. The ditch was last inspected in 2014 (103E.075 subd 4). The approved elevations through this property are 880.6 ft MSL at the downstream end and 890.6 ft MSL at the upstream end. The 2014 observed elevations through this property are 879.6 ft MSL at the downstream end and 893.8 ft MSL at the upstream end. The observed elevations represent a 1.0-3.2 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 Sand Creek. Sand Creek 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 a DNR protected water (Unnamed 02007300).

**Wildlife:**
The proposed project does include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors. The endangered or threatened species, rare natural community are Rubus fuller (Bristle-Berry) and Rubus semisetosus (Swamp Blackberry). The applicant has not contacted the MDNR natural heritage or endangered
species program. The project does not propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species will occur.

**Performance Escrow:** $2800  
**Wetland Escrow:** $ N/A  
There are not ditch liens on the property.

### ISSUES/CONCERNS:

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| Escrows                      | $2,000 + (1.6 ac * $500/ac) = $2800  
| Soils & Erosion Control:     | Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.  
| Wetland                      | The proposed project (60P13 and 14) is adjacent to a DNR protected water (Unnamed 02007300)  
| Wildlife                     | The proposed project (60P14) may include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.  

### ISSUES/CONCERNS:

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| Soils & Erosion Control:     | Update construction plans to include sediment trapping measures to prevent soil loss.  
| Wetland                      | Provide documentation from the DNR  
| Wildlife                     | Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors  

### RECOMMENDATION: Approve with 4 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

3. Provide documentation from the DNR if the proposed project includes disturbance to a DNR protected water
4. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors