COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: February 13, 2017
AGENDA NUMBER: 12
FILE NUMBER: 17-014
ITEM: Jackson Circle FES Repair

RECOMMENDATION: Approve

APPLICANT: City of Blaine
10801 Town Square Drive
Blaine MN 55449

PURPOSE: Replace broken FES

LOCATION: CD 17 at Jackson Circle NE, 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. Excavation or filling or a combination of excavation and filling of sand or other
evacuation or fill material including the laying, repairing, replacing or enlarging of a
culvert or an underground pipe or facility where it crosses a public ditch or waters of
the state.

EXHIBITS:
1. Construction Plan set (1 sheet); by City of Blaine, dated 9/12/16, received 1/9/17.

PREVIOUS ACTION TAKEN: The City contacted staff and informed them that the
work was needed for an emergency repair. The project is complete and staff has
inspected it.

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

Ditches: There is a public ditch on the property. The public ditch is County Ditch 17
according to the public drainage map. The observed elevations through this property are
893.8 ft MSL downstream and 894.1 ft MSL upstream. The ditch was last inspected in
2016. The ditch is a 4th order stream. The ditch serves the primary role of storm water
conveyance and trunk drainage system. The ditch serves approximately 0 acres of
agricultural land. Land use in the area is toward single family residential. There are no
flooding concerns upstream or downstream. Existing elevations, slopes and condition of
ditch are fair. The ditch is not in need of repair. Alternatives to repair and additional
drainage have not been considered and reviewed.

Ditch Hydraulics: A crossing of the ditch is not proposed, however the repair of an FES
into CD 17 is proposed. The proposed FES is an in-kind replacement and therefore is of
sufficient hydraulic capacity.

Erosion and Sediment Control: Soil affected by the proposal are Isanti.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of
  rough grading.
- No soil stockpiles anticipated as part of this project.
- 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 been provided.
- Stormwater runoff does pass through a sediment basin or other sediment trapping
  BMP with equal or greater storage capacity.
• Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
• All storm sewer inlets are protected from sediment-laden water during construction.
• All work adjacent to water or related resource has taken precautions to contain sediment, and stabilize the work area during construction.
• Provisions have been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
• Provisions have 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 provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

Dewatering: Shallow ground water may exist on site. Dewatering is not anticipated.

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. There are flooding concerns upstream and downstream.

High Water Flooding: Information has not been provided to substantiate low floor elevations and is not needed.

Groundwater: Geotechnical information was not provided and is not needed.

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

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: The proposed project is consistent with local planning and zoning. There is an approved local water plan.

Property owners affected by changes in drainage have been notified and acknowledge the changes proposed.

Maintenance: No stormwater management features and treatment practices are proposed as part of the project.
**Stormwater & Hydrology:** No impervious proposed as part of this project, infiltration requirements do not apply. Stormwater leaving the site is discharged into a well-defined receiving channel or pipe and routed to a public drainage system.

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. No increases in volume, velocity and peak water flow rates from stormwater runoff will result from this project. No concentrated storm water will result as part of this project. No on-site constructed storm water conveyance channels are proposed as part of this project.

**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 discharges into wetlands are pretreated via overland 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 and drains to an Impaired Water. The Impaired Water is CD 17 (Springbrook). CD 17 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 not 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 do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

**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.

**Performance Escrow:** N/A

**Wetland Escrow:** N/A

There are not ditch liens on the property.

**ISSUES/CONCERNS:** None

**RECOMMENDATION:** Approve