COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: September 25, 2017
AGENDA NUMBER: 13
FILE NUMBER: 17-179
ITEM: Oak Glen Creek Pond Expansion

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: City of Fridley
Attn: Jim Kosluchar
6431 University Ave NE
Fridley, MN 55432

PURPOSE: Stormwater Pond Construction

LOCATION: North of 73rd Ave NE and Commerce Ln, Fridley MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. One or more cumulative acres of land disturbance.
3. The lands and waters that have been, or may be covered by the regional flood.

EXHIBITS:
2. Geotechnical Report; by NTI, dated 8/14/17, received 9/13/17.
3. Soil Sample Results; by Pace Analytical; dated 6/26/17, received 9/13/17.

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 urban soils.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles not anticipated as part of the 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 does exist on site. The project does require dewatering.

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 854.2 feet. The project does propose to place fill within the floodplain. The total floodplain impact is negligible. The proposed impact is within the flood fringe. There are flooding concerns upstream and downstream. The project was designed for flood mitigation.

High Water Flooding: Information is not needed to substantiate flow floors, no structures proposed.

Groundwater: Geotechnical information collected in June 2017 indicates long term groundwater elevation is present at 4.5 feet below the surface.

The site is not 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 should be notified and acknowledge drainage changes.

Maintenance: The Owner of the Stormwater Management features and treatment practices is the City of Fridley. The Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
<th>Maintenance Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basin</td>
<td>1</td>
<td>City of Fridley</td>
</tr>
<tr>
<td>Swale</td>
<td>1</td>
<td>City of Fridley</td>
</tr>
</tbody>
</table>

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. A maintenance access to all storm water management features is provided.

Stormwater & Hydrology: Infiltration is allowed within the project area. The 1-inch infiltration is not required, no new impervious proposed. Proposed project is being constructed to improve water quality and flood mitigation. 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 may exceed predevelopment rates; however, the rates will not adversely impact downstream properties. 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. 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. Mississippi River is impaired for (Aquatic Life (Macro-invertebrates)/ Aquatic Recreation (E. coli). The major stressors are Total Suspended Solids (TSS)/ Total Phosphorus (TP)/ E. coli/ PCB and mercury. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water. (WLA) for this water.

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

Wetlands: Wetlands do exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. The wetland is an excavated storm pond which is being expanded in this project.

Wetland Replacement Plan: A wetland replacement plan 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: $3,700.00
Wetland Escrow: $ N/A
There are not ditch liens on the property.

ISSUES/CONCERNS:

<table>
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<th>NEED</th>
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<tr>
<td>Escrows: $2,000 + (3.4 ac * $500/ac) = $3,700.00</td>
<td>1. Receipt of escrows.</td>
</tr>
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<td>Stormwater &amp; Hydraulics:</td>
<td>2. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.</td>
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RECOMMENDATION: Approve with 2 Stipulations

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1. Receipt of escrows.
2. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.