COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 8, 2016
AGENDA NUMBER: 12
FILE NUMBER: 16-125
ITEM: Dave Langenfeld

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: Dave Langenfeld
1128 97th Lane NW
Coon Rapids, MN

PURPOSE: Repair failing porch footings and portion of falling boulder retaining wall

LOCATION: 1128 97th Lane NW in Coon Rapids, Minnesota.
APPLICABILITY:
1. Any work within or adjacent to a Public ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses
3. The lands and adjacent to that may be covered by the regional flood.

EXHIBITS:
1) Plat Map by Lot Surveys Company, Inc., dated 10/14/1996, received 7/25/16.
2) Erosion Control Plan and Details and Schedule by Trendsetter Homes, undated, received 7/25/16.

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 a public watercourse on the property. The public watercourse is Lower Coon Creek according to the public drainage map. The observed elevation through this property is 820.5 ft MSL. The watercourse is a 5th order stream. The watercourse serves the primary role of Trunk drainage system. The watercourse directly serves approximately 0 acres of agricultural land. Land use in the area is toward residential. There are no flooding concerns upstream or downstream. The watercourse has been inspected. Existing elevations, slopes and condition of watercourse are good. The watercourse 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:** Soil affected by the proposal is alluvial land.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- 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.
- 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 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 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.

**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 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 have not been notified and acknowledge the changes proposed.

Maintenance: Proposed project does not require Stormwater Management features.

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

Stormwater & Hydrology: Infiltration is allowed within the project area. No new impervious added, volume management not required. 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. 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. On-site constructed storm water conveyance channels are not proposed.

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 by a sediment basin/water quality pond, and are designed correctly. 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 and drains to an Impaired Water. The Impaired Water is Coon Creek. Coon Creek is impaired for (Aquatic Life (Macro-invertebrates) / Aquatic Recreation (E. coli)). The major stressors of 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 exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetland impacts are not proposed.

**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**: $2,002.00
**Wetland Escrow**: N/A
There are not ditch liens on the property.

**ISSUES/CONCERNS**:

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $2,000 + (.004 ac * $500/ac) = $2,002.00</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>It is unclear if dewatering is needed during the construction of the proposed project.</td>
<td>2. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide well-field location, rates, discharge location, schedule and quantities.</td>
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**RECOMMENDATION**: Approve with 2 Stipulations

**Stipulations**:

1. Receipt of escrows.
2. Provide statement whether dewatering will be required for the construction of the proposed project. If yes, provide well-field location, rates, discharge location, schedule and quantities.