COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: February 27, 2017
AGENDA NUMBER: 8
FILE NUMBER: 17-027
ITEM: 171st Ave and Kenyon Street Natural Gas Main Replacement

RECOMMENDATION: Approve with 1 Stipulation

APPLICANT: CenterPoint Energy
Attn: Steve Guhanick
700 West Linden Ave
Minneapolis, MN 55403

PURPOSE: Replacement of natural gas main

LOCATION: 171st Ave and Kenyon Street in Ham Lake, 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. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:
1) Project Schedule and Exhibits by Merjent, dated 2/1/17, received 2/1/17.
2) Joint Application Form for Activities Affecting Water Resources in Minnesota; dated 1/31/17, received 2/1/17.

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 a public ditch on the property. The public ditch is County Ditch 58-3 according to the public drainage map. The approved elevations through this property are 898.8 ft MSL for the upstream side of 171st and 899.0 ft MSL for the downstream side of Kenyon. The observed centerline elevations through the property are 902.5 ft MSL for the upstream side of 171st and 902.0 ft MSL for the downstream side of Kenyon. Observed centerline elevations represent a 3.0-3.7 foot variance from approved elevation. The ditch is a 2nd order stream. The ditch serves the primary role of storm water conveyance. The ditch serves approximately 0 acres of agricultural land. Land use in the
area is single family residential. There are flooding concerns upstream. The ditch was last inspected in 2013. Existing elevations, slopes and condition of the ditch are poor. The ditch is in need of repair. Alternatives to repair and additional drainage have been considered and reviewed.

**Ditch Hydraulics:** An underground crossing of the ditch is proposed as a directional bore.

**Erosion and Sediment Control:** Soils affected by the proposal are Isanti, Lino and Markey.

- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles are not proposed 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 not pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity and is not needed.
- Impacts to existing storm sewer pipes are not expected as part of this project.
- 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 not require dewatering

**Floodplain:** There is floodplain on the property according to the District model or FEMA. The project does propose to place fill within the floodplain. There are flooding concerns upstream.

**High Water Flooding:** Information has not been provided to substantiate low floor elevations and is not needed as no buildings are proposed.

**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 been notified and acknowledge the changes proposed.

**Maintenance:** No Stormwater Management features and treatment practices are proposed as part of the project.

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 changes to stormwater are expected as part of the project. 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 the volume, velocity and peak water flow rates of stormwater runoff are expected. No concentrated storm water expected as part of the project. No on-site constructed storm water conveyance channels will be constructed as part of the 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 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 not within one (1) mile and drains to an Impaired Water.

There are no new impervious surfaces proposed as part of this project.
Performance Escrow: $2,005.00  
Wetland Escrow: N/A  
There are not ditch liens on the property.

ISSUES/CONCERNS:

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<th>ISSUE</th>
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<td>Ditches: Provide clearance below grade to allow for future ditch cleaning. The existing culverts at 171&lt;sup&gt;st&lt;/sup&gt; and Kenyon St are above the approved grade.</td>
<td>1. Provide as-built survey showing the top of the new gas main at 171&lt;sup&gt;st&lt;/sup&gt; and at Keyon St. are no higher than 895.0.</td>
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RECOMMENDATION: Approve with 1 Stipulation  
Stipulations:  
1. Provide as-built confirmation that the four (4) foot separation from the approved ditch bottom is met. That is the top of the new gas main can be no higher than 895.0.