# ECK 322 Extension Project

# Maple Grove Project #2025-007

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Project Overview:** | | | | | | |
| *Location:* | | From CR 101 (650-ft west of 89th Avenue) to 89th Avenue North to Maple Grove Parkway to Weaver Lake Road, and in Maple Grove, MN | | | | |
| *Purpose:* | | Installation of new utility manholes and electrical duct lines along existing roadway corridor. | | | | |
| *WMC Rules Triggered:* | | X | Rule D | Stormwater Management | | |
| X | Rule E | Erosion and Sediment Control | | |
|  | Rule F | Floodplain Alterations | | |
|  | Rule G | Wetland Alteration | | |
|  | Rule H | Bridge and Culvert Crossings | | |
|  | Rule I | Buffer Strips | | |
|  | | | | | | |
| **Applicant:** | Northern States Power Company d/b/a Xcel Energy | | | | *Attention:* |  |
| *Address:* | 414 Nicollet Mall  Minneapolis MN, 55401 | | | | *Phone:* | 612-216-8185 |
|  | *Email:* | simon.m.christensen@xcelenergy.com |
|  |  | | | | | |
| **Agent:** | N/A | | | | *Attention:* |  |
| *Address:* |  | | | | *Phone:* |  |
|  | *Email:* |  |

| **Exhibits:** | **Description** | **Date Received** |
| --- | --- | --- |
| *Application* | Complete ECWMC Application | February 13, 2025 |
|  | ECWMC Request for Review and Approval | February 4, 2025 |
|  | City authorization: Maple Grove, MN | November 15, 2024 |
|  | Review fee: $5,900 | February 4, 2025 |
|  | Project Documents (site plans, reports, models, etc.) | February 13, 2025 |

*Submittals*

1. Topographic Exhibit, dated February 12th, 2025, prepared by WSB.
2. Stormwater Pollution Prevention Plan (SWPPP) Narrative.
3. Agreement for City to Construct Stormwater Practice.
   1. Email Correspondence between the City of Maple Grove and Xcel Energy

# Findings

## General

1. A complete application was received February 13th, 2025. The initial 60-day decision period per MN Statute 15.99 expires April 14th, 2025.
2. The existing 2.564 acres is roadway corridor with a portion along CR 101 being existing roadside vegetation. The site is an approximately 3-mile linear corridor with multiple discharge points along the corridor. Discharge points are shown on Attachment Figure 1 and in the SWPPP narrative.
3. The proposed construction includes installation of utility manholes and electrical duct lines.
4. The Project will create 2.18 acres of impervious area, all of which is reconstructed impervious. Site disturbance is 2.564 acres.
5. The applicant has entered into an agreement with the City of Maple Grove for stormwater management associated with the project. The City of Maple Grove has an upcoming Weaver Lake Road Project that will construct BMPs to account for the volume abstraction requirement as a result of the proposed project.
6. Because NRCS soil surveys indicate HSG C and HSG C/D as underlying soils throughout the site infiltration is not feasible.
7. There are no proposed disturbances to Elm Creek Watershed jurisdictional floodplains or stream crossings.

## Rule D – Stormwater Management (plans)

### General

1. The project is linear with 2.564 acres of disturbance. The impervious area will be 2.18 acres, all of which is reconstructed impervious.
2. NRCS soil survey indicate loam type soils.
3. These underlying soils are predominantly Hydrologic Soil Group Type C, C/D (low infiltration capacity).

### Rate Controls

1. Rate control **meets** Commission requirements.
2. The project proposes no land feature changes including changes in the amount of impervious surface. As such, the project meets rate control requirements.

### Abstraction Controls and Water Quality

1. Abstraction controls **meet** Commission requirements though the agreement with the City of Maple Grove.
2. Reconstructed impervious areas will be 2.18 acres requiring abstraction of 4,352 cubic feet.
3. Full infiltration of 0.55 inches of runoff from reconstructed impervious areas is not feasible due to low infiltration capacity soils.
4. The applicant has entered into an agreement with the City of Maple Grove for stormwater management associated with the proposed project. This includes BMPs required for volume abstraction for the proposed project to be incorporated into the future Weaver Lake Road Project in Maple Grove.
5. The current land use is existing roadway corridor with the pervious portion of disturbance being roadway adjacent open space.

Table 1 Water Quality Summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Annual Runoff Vol.  (ac-ft) | Abstraction Vol.  (cubic feet) | TP (lbs/year) | TSS (lbs/year) |
| **Pre-Project** w/ *no BMP’s* | N/A | N/A | N/A | N/A |
| **Proposed** *w/ BMPs* | N/A | 4,352 *(required amount)\** | N/A | N/A |
| **Change** | **0.0** | **0.0** | **0.0** | **0.0** |

### \* Volume abstraction amount will be provided by the City of Maple Grove as part of upcoming Weaver Lake Road Project.

### Operation and Maintenance

Through the agreement with the City of Maple Grove, The City will take on ownership, operation and maintenance of the future BMPs.

## Rule E – Erosion and Sediment Control (plans)

1. Plans **meet** Commission requirements for erosion and sediment control.
2. The erosion and sediment control plans are consistent with current best management practices, including:
   1. Sediment control log
   2. Catch basin inlet protection
   3. Stabilization of disturbed soil areas

## Recommendation

Conditional approval

### Conditions for Approval

1. Approval is contingent upon final application escrow fee balance. Additional payment or refund of the fees will be determined when all conditions for approval are met.
2. Provide installation detail for trench crossing of Elm Creek at Weaver Lake Road North of Shadow Creek Road to ensure there are no floodplain or hydraulic impacts.
3. Provide signed stormwater agreement with the City of Maple Grove and confirmation that the agreement has been executed.

On Behalf of Stantec Consulting Services, Inc.

Advisor to the Commission

A pair of glasses

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Date

## Attachments

[Figure 1 Project Location](#_Toc84239109)

Figure 1 Project Location

A map of a route

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