



LOWER MINNESOTA RIVER WATERSHED DISTRICT

Executive Summary for Action

Lower Minnesota River Watershed District Board of Managers Meeting

Wednesday, March 19, 2025

Agenda Item

Item 6. B. – Permit for Dell Road Reconstruction Project (LMRWD No. 2024-022)

Prepared By

Linda Loomis, Administrator

Summary

The City of Eden Prairie is planning to reconstruct a segment of Dell Road. The City declined to obtain an LGU Permit from the LMRWD. Therefore, the LMRWD received a permit application from the City for this project. Young Environmental Consulting Group reviewed the application on behalf of the LMRWD. Details of the summary and recommendations are attached.

Attachments

Technical Memorandum - Dell Road Reconstruction Project (LMRWD No. 2024-022) dated March 12, 2025

Recommended Action

Motion to conditionally approve a permit for subject to receipt of the following:

- Copy of the NPDES construction stormwater permit
- Designation of an individual who will remain liable to the LMRWD for the performance under Rule B from the time the permitted activities commence until vegetation cover is established and the LMRWD has certified satisfaction with erosion and sediment control requirements
- Documentation of approval from Hennepin County to alter/obstruct its right-of-way
- Documentation of approval from RPBCWD
- Final construction plans signed by a professional engineer
- Name, address and phone number(s) of all the contractors undertaking land-disturbing activities, as part of the project
- Additional information on the final staging areas, once determined by the contractor
 - Include updated erosion and sediment control plans, if applicable

Technical Memorandum



To: Linda Loomis, Administrator
Lower Minnesota River Watershed District (LMRWD)

From: Rachel Kapsch, Water Resources Scientist
Erica Bock, Water Resources Scientist II
Gabrielle Campagnola, Water Resources Engineer (Barr Engineering)

Date: March 12, 2025

Re: Dell Road Reconstruction Project (LMRWD No. 2024-022)

The City of Eden Prairie (applicant) has applied for an individual project permit from the Lower Minnesota River Watershed District (LMRWD) to perform road reconstruction on Dell Road in the City of Eden Prairie (Figure 1). The road reconstruction project is being proposed to improve bituminous curb conditions, stormwater conveyance, and road drivability (improve site lines and road-to-driveway connections). Proposed work includes conducting stormwater, sanitary, and watermain utility improvements, and constructing multiple retaining walls and a bituminous walking trail. The applicant's engineer, WSB, submitted the permit application, associated application exhibits, and site plans for the Dell Road Reconstruction Project (Dell Road Project).

The Dell Road Project straddles the border between the LMRWD and Riley Purgatory Bluff Creek Watershed District (RPBCWD). Construction activities will occur in both watershed districts, requiring the permit applicant to obtain separate permits from each agency. Within the LMRWD, the Dell Road Project will disturb 2.06 acres of developed impervious roadways and vegetated areas adjacent to the roadway. The project proposes 0.09 acres of new impervious surfaces. Storm sewer improvements, landscaping (landscape rock and seeding), a retaining wall, and roadway/trail improvements will be implemented in the disturbed areas. Locations of the proposed activities are shown in Figure 1.

No new permanent stormwater best management practices will be constructed within the LMRWD as part of this project. Within RPBCWD, a biofiltration basin will be constructed to meet RPBCWD stormwater management requirements. Separate permits will be obtained from RPBCWD for this project, and copies of RPBCWD permits will be required as an LMRWD conditional approval item. The project is not located within a High Value Resource Area (HVRA), or 100-year floodplain regulated by the LMRWD but is located within the Steep Slopes Overlay District (SSOD). The project triggers LMRWD Rule B—Erosion and Sediment Control and Rule F—Steep Slopes.

Because the City of Eden Prairie does not have a municipal permit, the project requires an individual LMRWD project permit.

SUMMARY

Project Name:

Dell Road Reconstruction

Purpose:

Street reconstruction, sewer improvements, retaining wall installation, trail development

Project Size:

Area Disturbed	Existing Impervious	Proposed Impervious	Net Change
2.06 acres	0.63 acres	0.72 acres	+0.09 acres

Location:

Dell Road | Eden Prairie, MN 55347

LMRWD Rules:

Rule B—Erosion and Sediment Control
Rule F—Steep Slopes

Recommended Board Action:

Conditional approval

DISCUSSION

The LMRWD received the following documents for review:

- The following documents were received on December 27, 2024:
 - LMRWD Online Permit Application
 - Plan Set (Parts 1 and 2)
 - Appendix A—LMRWD Drainage Map
 - Appendix B—LMRWD HydroCAD Report
 - Dell Road Stormwater Memo
- The following documents were received on January 21, 2025:
 - WSB Response to Comments
 - Authorization of Agent Form
 - Updated SWPPP Narrative
- Zone A Area Map, received February 3, 2025

The application was deemed complete on February 11, 2025, and the documents received provide the minimum information necessary for permit review.

Rule B—Erosion and Sediment Control

The LMRWD regulates land-disturbing activities that affect one acre or more under Rule B. The proposed project would disturb approximately 2.06 acres within the LMRWD boundary. The applicant has provided an erosion and sediment control plan and a Stormwater Pollution Prevention Plan (SWPPP). Temporary erosion and sediment control measures include sediment control logs, silt fencing, inlet protection, random riprap, and stabilized construction exits. Disturbed areas are to be seeded to achieve final stabilization.

The project generally complies with Rule B, but a copy of the National Pollutant Discharge Elimination System (NPDES) construction stormwater permit, contact information for contractors performing erosion and sediment control inspections and maintenance, and contact information for

contractors performing land-disturbing activities are needed before the LMRWD can issue a permit.

Rule F—Steep Slopes

The LMRWD requires a Rule F permit for land-disturbing activities within the SSOD that involve the excavation of 50 cubic yards or more of earth or the displacement or removal of 5,000 square feet or more of surface area or vegetation within the overlay area. The project is subject to this rule because of the disturbance area (28,317 square feet) within the SSOD (Figure 1).

There are no new stormwater discharge points to the SSOD; the proposed storm sewer ties into the existing storm sewer on Dell Road; therefore, the existing drainage patterns are maintained. The applicant's engineer submitted HydroCAD models to estimate the existing and proposed peak discharge rates from the project site. Table 1 summarizes the estimated existing and proposed runoff rates from the project site that would result from 2-, 10-, and 100-year rainfall events.

Table 1. Peak Runoff Rates to Flying Cloud Drive

Event	Existing (cfs)	Proposed (cfs)
2-year	3.3	3.3
10-year	8.5	8.4
100-year	22.3	22.2

The reported runoff rates show little to no change between existing and proposed conditions. The proposed project includes a flatter roadway and storm sewer system that will ultimately slow runoff as it flows south into the existing system. As a result, the project complies with Rule F.

Recommendations

Based on a review of the project, we recommend conditional approval of the Dell Road Project contingent on receipt of the following:

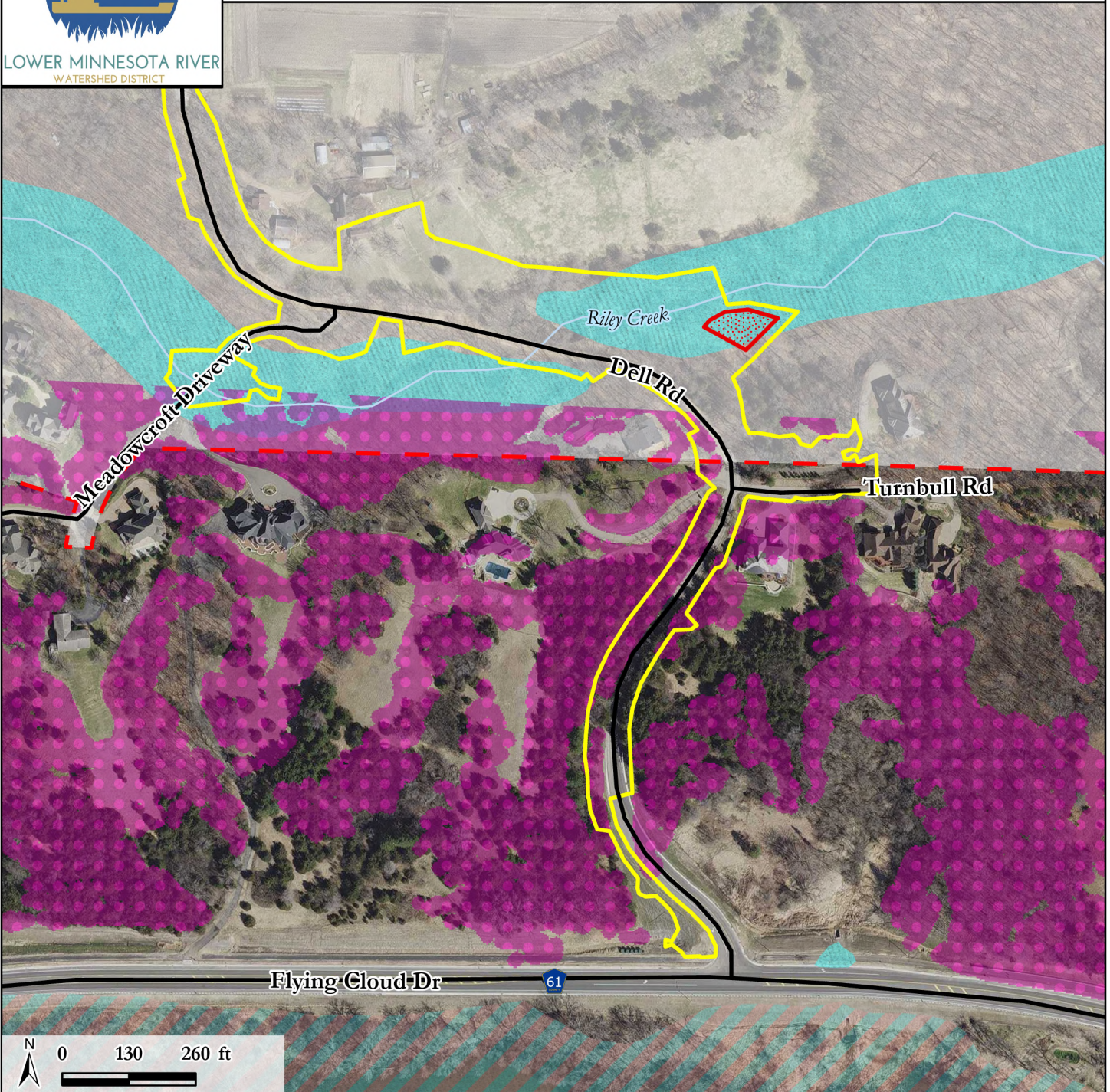
- Copy of the NPDES construction stormwater permit
- Designation of an individual who will remain liable to the LMRWD for the performance under Rule B from the time the permitted activities commence until vegetation cover is established and the LMRWD has certified satisfaction with erosion and sediment control requirements
- Documentation of approval from Hennepin County to alter/obstruct its right-of-way
- Documentation of approval from RPBCWD
- Final construction plans signed by a professional engineer
- Name, address, and phone number of the person(s) responsible for erosion control inspections and maintenance
- Name, address, and phone number(s) of all the contractors undertaking land-disturbing activities as part of the project
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Attachments

- Figure 1—Dell Road Reconstruction Project Location Map



Figure I: Dell Road Reconstruction Project Location
LMRWD No. 2024-022



Legend

- Project Location
- LMRWD Boundary (Legal Boundary from RPBCWD)
- Proposed Infiltration Basin
- Public Waters
- Steep Slope Overlay District
- 100-yr Floodplain
- Floodway

LMRWD Watershed Location Map

