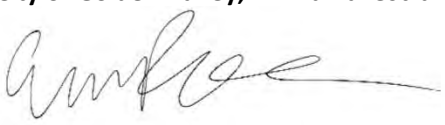
# Minnesota Wetland Conservation Act
# NOTICE OF APPLICATION

| | |
|---|---|
| **Date this Notice was sent:** | **10/19/26** |
| **Date Complete Application received:** | **9/22/26** |
| **Local Government Unit:** | **City of Golden Valley** |
| **County:** | **Hennepin** |
| **Applicant and (if applicable) Applicant's Representative:** | **Applicant: Hennepin County Dept. of Transportation/Gary Schmitz, P.E.**<br>**Applicant Agent: Ben Hodapp, Anderson Engineering of MN, LLC** |
| **Project Name/Number:** | **CSAH 156 Culvert Replacement** |
| **Type of Application (check all that apply):**<br>**Note:** If a complete boundary/type application (i.e. delineation report) is submitted with another type of application, then check both application types. | ☒ Boundary/Type<br>☐ Sequencing (submitted separately from a replacement plan)<br>☐ Replacement Plan<br>☐ Bank Plan<br>☐ Exemption<br>Identify which exemption by Rule or Statute Citation: **N/A**<br>☒ No-Loss<br>Identify which provision by Rule or Statute Citation: **8420.0315 No-Loss Applications.** |
| **For Replacement Plan Applications Only:** | Proposed wetland impacts requiring replacement (acres): **N/A**<br>Type of wetland replacement proposed (check all that apply):<br>☐ Project-Specific. Number of Credits: **N/A**<br>☐ Banking. Number of Credits by Bank Account #: **N/A** |
| **Application Materials (check one):** | ☒ Attached<br>☐ Other (ftp or other accessible file sharing site): **N/A** |
| **Comments on this Application must be received by (date):**<br>**Note:** For replacement plan, sequencing, bank plan, and boundary/type applications, the comment period must be at least 15 business days from the date the notice of application is sent. | **November 16, 2026** |
| **Where to send comments:** | Name: **Emma Rakestraw**<br>Address: **7800 Golden Valley Road, Golden Valley, MN 55427**<br>Email: **erakestraw@goldenvalleymn.gov** |
| **Decision-Maker on this Application (check one):** | ☒ Staff<br>☐ Board/Council |

| | |
|---|---|
| | ☐ Other. Specify: **N/A**<br>Specify anticipated decision date if known: **N/A** |

## Notice Distribution

| | |
|---|---|
| **Notice Recipients (check all that apply):** | ☒ SWCD TEP Member (if different from LGU): **Stacey Lijewski Stacey.Lijewski@hennepin.us**<br>☒ BWSR TEP Member: **Jed Chesnut**<br>**jed.chesnut@state.mn.us**<br>☒ DNR Representative: **Ryan Toot**<br>**Ryan.Toot@state.mn.us**<br>☒ Watershed District or WMO (if applicable): **Bassett Creek Watershed Management Commission, Laura Jester**<br>**Laura.jester@keystonewaters.com**<br>☐ bank.administrator.bwsr@state.mn.us (Bank Plan Applications Only)<br>☒ Applicant:**Greta Schmitz, greta.schmitz@hennepincounty.gov**<br>☒ Applicant's Representative (if applicable): **Ben Hodapp, bhodapp@ae-mn.com**<br>☐ Members of the Public Requesting Notices (if applicable): **N/A**<br>☒ Others:<br>**Michael Ryan, City of Golden Valley, mryan@goldenvalleymn.gov**<br>**Rikita Patel, City of Golden Valley, rpatel@goldenvalleymn.gov**<br>**John Smyth, Stantec, John.Smyth@stantec.com** |

| | |
|---|---|
| **LGU Representative Name & Signature:** | **City of Golden Valley, Emma Rakestraw**<br> |







## WETLAND INVESTIGATION

# HENNEPIN COUNTY DEPARTMENT OF TRANSPORTATION

## CSAH 156 CULVERT REPLACEMENT

### GOLDEN VALLEY, MINNESOTA

**8/17/2026**
**AE JOB NO. 19270**





ANDERSON

13605 1st Avenue North #100, Plymouth, MN 55441
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ae-mn.com

# TABLE OF CONTENTS

CONTACT INFORMATION .....2
EXECUTIVE SUMMARY .....3
BACKGROUND .....4
METHODOLOGY .....4
RESOURCE REVIEW .....6
CONCLUSION .....11

# APPENDICES

Appendix A FIGURES
Appendix B ROUTINE ON-SITE DETERMINATION METHOD DATASHEETS
Appendix C ANTECEDENT PRECIPITATION RECORD
Appendix D CREDENTIALS

# CONTACT INFORMATION

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13605 1st Avenue North
Suite 100
Plymouth, MN 55441
Phone: (763) 412-4000
Fax: (763) 412-4090

# EXECUTIVE SUMMARY

Anderson Engineering of Minnesota, LLC was retained to provide professional wetland services using the 1987 United States Army Corps of Engineers Wetland Delineation Manual (Technical Report Y-87-1; January 1987) and all supplemental guidance documents to identify areas meeting wetland criteria at Hennepin County parcel # 3211821230180 located in Golden Valley, Minnesota. This project area is in Section 32, Township 118 North, Range 21 West.

Delineated aquatic resources, or portions thereof, was/were identified and delineated within the project area and summarized in Table 1 and depicted in Appendix A, Figure 5.

*Table 1. Summary of delineated aquatic resources, corresponding sizes, and wetland type classifications.*

| RESOURCE ID | RESOURCE TYPE | APPROX. SIZE[1] | RESOURCE CLASSIFICATION | | | |
|---|---|---|---|---|---|---|
| | | | CIRCULAR 39 | COWARDIN | EGGERS & REED | HGM[2] |
| A-1 | Tributary | 251 LF (0.10 ac) | Type 90 | R2UBH | Channel | Riverine |
| A-2 | Tributary | 282 LF (0.10 ac) | Type 90 | R2UBH | Channel | Riverine |

[1] Approximate size within the project area expressed in acres (ac), square feet (SF), or tributary linear feet (LF). Areas less than 0.01 acre are presented in square feet.

[2]HGM – Hydrogeomorphic (classification), assesses functionality of a water resources ecosystem by measuring interactions between its structural components and the surrounding landscape.

# BACKGROUND

Hennepin County Department of Transportation contracted Anderson Engineering of Minnesota, LLC, to perform a wetland investigation at County Highway Agency Bridge #90626, located in Golden Valley, MN 55427. The project area is located in Section 32, Township 118 North, Range 21 West (Appendix A, Figure 1). The wetland investigation is needed to inform the planning and design of replacing the culvert under bridge #90626.

The wetland delineation was completed in accordance with the 1987 United States Army Corps of Engineers Wetland Delineation Manual and the published regional supplement to the Army Corps Wetland Delineation Manual, Midwest Regional Supplement.

The purpose of this study was to identify areas meeting the technical criteria for wetlands, delineate the jurisdictional extent of the wetland basins, and classify the wetland habitats in the project area.

Fieldwork for this site investigation was completed by Robert Bergstrom and Garret Wee, on August 10th, 2026. The weather was sunny and 78 degrees Fahrenheit.

# METHODOLOGY

U.S. Geologic Service 7.5" Topographic Quadrangle maps, U.S. Fish and Wildlife Service National Wetland Inventory (NWI) maps, Minnesota Department of Natural Resources Public Water Inventory (PWI) maps, U.S. Department of Agriculture Natural Resources Conservation Service Soil Survey, and available aerial photographs were consulted to initially locate potential wetland habitats.

Routine On-site Determination Method was used during this investigation. In this method, the following procedures were used:

1. The vegetative community was sampled in all present strata to determine whether it met hydrophytic vegetation criteria based on the indicators identified in the Midwest Regional Supplement.
2. Soil pits were dug using a Dutch auger to depths of twenty-four to forty-two inches. The soil profile was noted in addition to any hydric soil characteristics.
3. Signs of wetland hydrology were noted and compared to field criteria such as depth to shallow water table and depth of soil saturation found in the soil pits.

Data from sample points were recorded on Army Corps of Engineers Midwest Region Wetland Determination Data Forms (Appendix B). At least one sample point transect crosses the delineated wetland edge. This transect consists of an upland sample point and a wetland sample point. Other sample points may be in areas which have one or more other wetland criteria present; where questionable conditions exist; or to verify the absence of wetland criteria. Photographs of each resource are included in the resource review summary pages.

All sample points and the delineated aquatic resource extent were located using a Trimble Catalyst DA2-BT receiver 1-centimeter GPS unit.

**TRIBUTARIES**

Where appropriate, the lateral extent of perennial, intermittent, and/or ephemeral tributaries were delineated based on channel physical characteristics to include the bed and bank, water staining, shelving, disturbance to vegetation, and other characteristics identified in the Final National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams (Final National OHWM Manual 2025). Perennial means surface water flowing

continuously year-round and intermittent means surface water flowing continuously during certain times of the year and more than in direct response to precipitation. Ephemeral flows only during and soon after precipitation inputs; an ephemeral river has no groundwater inputs or base flow.

# RESOURCE REVIEW

The data described below was reviewed as part of the aquatic resource field delineation. A summary of each resource contained within the project area follows.

### MINNESOTA DEPARTMENT OF NATURAL RESOURCES WETLANDS AND PUBLIC WATER INVENTORY

The Minnesota Department of Natural Resources Wetlands Inventory identifies one R2UBH in the project area (Appendix A, Figure 2) and identifies public water Basset Creek (M-057) in the project extent.

### USDA – NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY

Soil survey data was obtained and reviewed prior to the delineation. Table 2 provides a list of the mapped soils in the project area. Figure 2 in Appendix A depicts USDA Natural Resources Conservation Service mapped soils within the project categorized by total percentage of hydric components. Hydric ratings descriptions were assigned using Section 3.5.1 of the *Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and Wetland Conservation Act Local Governmental Units in Minnesota, Version 2.0.*

Hydric soil rating descriptions include:

- **All hydric** – All components listed for a given map unit are rated as being hydric.
- **Predominantly Hydric** – More than 66% to less than 100% of components are hydric.
- **Partially Hydric** – More than 33% to less than 67% of components are hydric.
- **Predominantly Non-Hydric** – More than 0% and less than 34% of components are hydric.
- **Not Hydric** – All components are rated as not hydric.
- **Unknown Hydric** – At least one component is not rated so a definitive rating for the map unit cannot be made.

*Table 2. Summary of mapped soil units in the project area.*

| MAP UNIT SYMBOL | MAP UNIT NAME | HYDRIC STATUS | PERCENT COVER | DRAINAGE CLASSIFICATION |
|---|---|---|---|---|
| U4A | Urban land-Udipsamments (cut and fill land) complex, 0 to 2 percent slopes | 0% | 60% | N/A |
| L6A | Biscay clay loam, 0 to 2 percent slopes | 100% | 40% | Poorly drained |

Hydric soils are defined in the *Field Indicators of Hydric Soils in the United States: Guide for Identifying and Delineating Hydric Soils, version 9.0, 2024*; The *1987 United States Army Corps of Engineers Wetlands Delineation Manual;* and The *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0).*

### 30-DAY ROLLING PRECIPITATION DATA

A review of the 30-day rolling precipitation data collected from the University of Minnesota Climatology Working Group (Appendix C) indicates that precipitation totals for the weeks prior to the site visit were below the range of average in the general project area. The overall hydrologic conditions were suitable, however, for completing an accurate wetland determination and boundary delineation.

## RESOURCE A- BASSET CREEK

FIELD DELINEATED 8/10/2026



**Viewing East** | Steep rip-rapped slopes leading to Basset Creek

### FIELD INVESTIGATION CONCLUSION[1]

| | |
|---|---|
| RESOURCE TYPE | Perennial Tributary |
| AREA WITHIN ECB<br>LENGTH WITHIN ECB | 0.20 ac<br>332 L.F. |
| EGGERS & REED | Riverine |
| CIRCULAR 39 | Type 90 |
| COWARDIN | R2UBH |

### DESKTOP REVIEW

| | |
|---|---|
| HYDRIC RATING - SOIL UNIT(S) | Hydric – L6A Biscay clay loam, 0 to 2 percent slopes |
| NATIONAL WETLAND INVENTORY | R2UBH |
| PUBLIC WATER INVENTORY | Yes – Basset Creek (M-057) |

### DISCUSSION

| | |
|---|---|
| RATIONALE FOR DETERMINATION | Basset Creek (M-057) is a perennial tributary of the Mississippi river, originating from Medicine Lake in the City of Plymouth. The resource begins and terminates in a highly urbanized area, as such the course and structure of the resource have been heavily manipulated. Steeply sloped boulder sized rip-rap has been placed on either side of the channel throughout its run in this location. The delineation identified the top of channel bank on either side of the resource, delineating the extent of the aquatic resource in this location. |
| CONSISTENCY WITH DESKTOP REVIEW | Reviewed desktop resources are generally consistent with field validation. PWI inventoried areas were found to be generally correct. Areas identified in the NWI were determined to be non-wetland in this location. |

[1] Appendix B contains wetland determination data forms supporting this investigated resource: Wet Point(s): N/A
Up Point(s): N/A

## RESOURCE A (BASSET CREEK)

**ADDITIONAL FIELD INVESTIGATION PHOTOS**



**Viewing West**



**Viewing East**



**Viewing South**



**Viewing North**

## INVESTIGATION AREA – A

FIELD DELINEATED 8/10/2026



**Viewing South** | Investigation Area - A

### DESKTOP REVIEW

| | |
|---|---|
| HYDRIC RATING - SOIL UNIT(S) | Hydric – L6A Biscay clay loam, 0 to 2 percent slopes |
| NATIONAL WETLAND INVENTORY | R2UBH |
| PUBLIC WATER INVENTORY | Yes – Basset Creek (M-057) |

### DISCUSSION

| | |
|---|---|
| RATIONALE FOR DETERMINATION | IA-A was taken adjacent to Basset Creek to verify no wetlands were present in this location. Hydrophytic vegetation was present. Indicators for wetland hydrology and hydric soils were absent. Overall, the area does not meet wetland criteria. |
| CONSISTENCY WITH DESKTOP REVIEW | Reviewed desktop resources are generally consistent with field validation. Areas identified in the NWI were determined to be non-wetland in this location. |

Appendix B contains wetland determination data forms supporting this investigated resource:

Wet Point(s): N/A
Up Point(s): IA-A

## INVESTIGATION AREA – B

FIELD DELINEATED 8/10/2026



**Viewing West** | Investigation Area - B

### DESKTOP REVIEW

| | |
|---|---|
| HYDRIC RATING - SOIL UNIT(S) | Hydric – L6A Biscay clay loam, 0 to 2 percent slopes |
| NATIONAL WETLAND INVENTORY | R2UBH |
| PUBLIC WATER INVENTORY | Yes – Basset Creek (M-057) |

### DISCUSSION

| | |
|---|---|
| RATIONALE FOR DETERMINATION | IA-B was taken adjacent to Basset Creek to verify no wetlands were present in this location. Sampling of location found no wetland indicators- the vegetative community was not hydrophytic, and indicators of wetland hydrology/ hydric soils were not present at the sample location. Overall, the area does not meet wetland criteria. |
| CONSISTENCY WITH DESKTOP REVIEW | Reviewed desktop resources are generally consistent with field validation. Areas identified in the NWI were determined to be non-wetland in this location. |

Appendix B contains wetland determination data forms supporting this investigated resource:

Wet Point(s): N/A
Up Point(s): IA-B

# CONCLUSION

No wetlands, or portions thereof, were identified and delineated within the project area and in accordance with the 1987 United States Army Corps of Engineers Wetland Delineation Manual.

Project area aquatic resources may be regulated by several agencies at the local, state, and/or federal level. Activities which may potentially impact wetlands should be discussed in advance with the appropriate regulating agency regarding potential permit requirements. The Local Government Unit (LGU) responsible for implementing the Minnesota Wetland Conservation Act at this project location is the City of Golden Valley.

The City may require vegetated buffers around all regulated wetland areas. Wetland buffers must meet the standards specified by the City for any project that is regulated under the Wetland Conservation Act.

This wetland investigation meets the standards and criteria described in the 1987 United States Army Corps of Engineers Wetland Delineation Manual and all applicable subsequent guidance for an on-site determination. The results reflect the conditions present at the time of the delineation.

*I certify that I performed the field analysis and/or wrote the report for this wetland determination.*

August 18th, 2026

Robert Bergstrom
Date
Environmental Scientist
Certified MN Wetland Professional In-Training #5597

*I certify that I performed the field analysis and/or wrote the report for this wetland determination.*

August 18th, 2026

Garrett Wee
Date
Environmental Scientist
Certified MN Wetland Professional In-Training #5538

*I certify that I performed the field analysis and/or reviewed work completed by above staff.*

August 18th, 2026

Benjamin J. Hodapp
Date
Environmental Services Manager
MN Certified Wetland Professional #1016

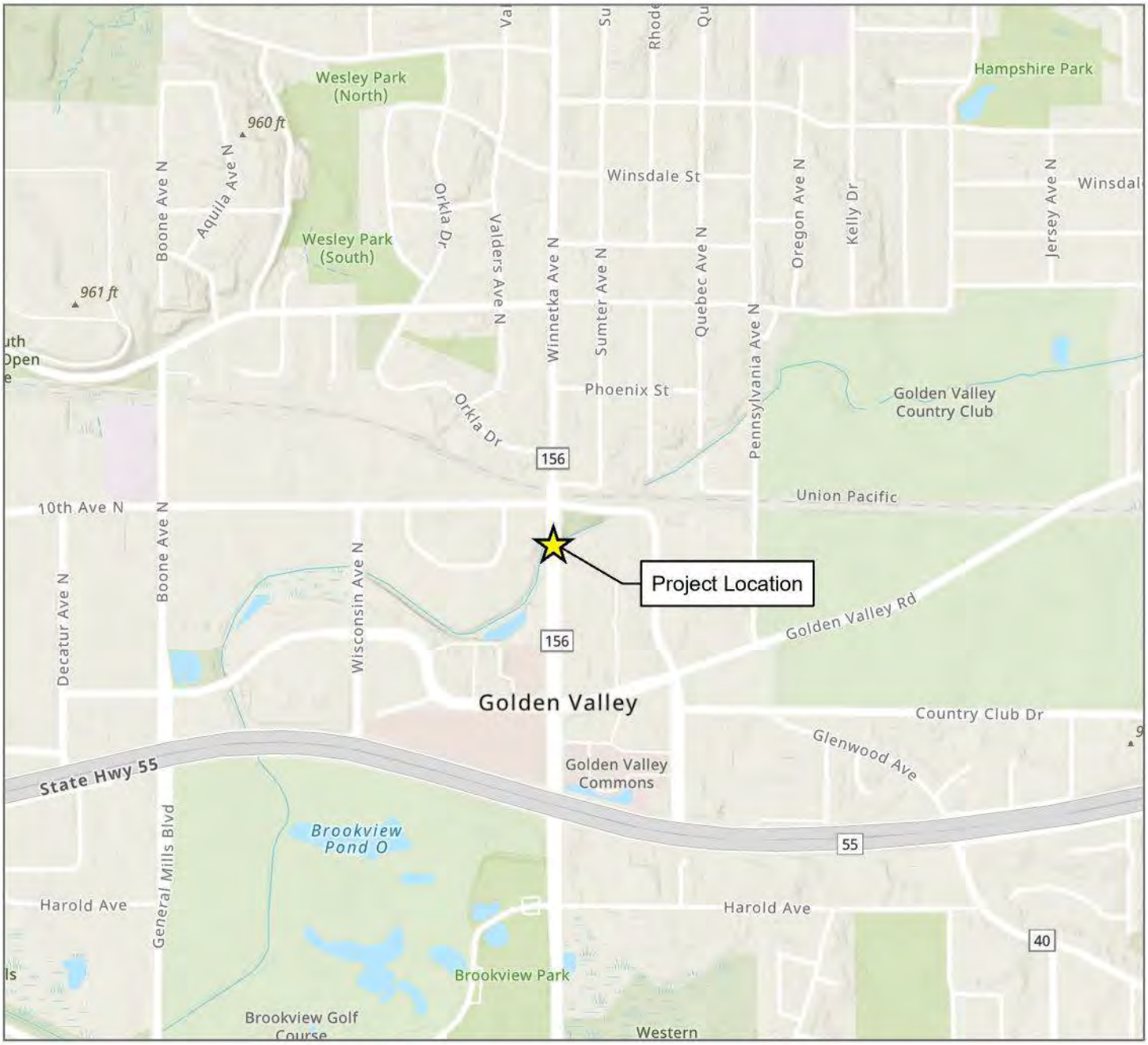


# Appendix A

## FIGURES

**Winnetka Ave. N. (CSAH 156) Bridge Replacement**
Golden Valley, Minnesota

**Figure 1**
Project Location




**Legend**

Project Location

**Address:** Winnetka Ave.
Golden Valley, MN
**Lat/Long:** 44.988426 -93.380386
**PID:** Multiple
**Project No:** 19270
**Date:** 7.28.2026

1 inch = 1,000 feet

0 500 1,000 2,000

Feet


ANDERSON
13605 1st Ave N #100, Plymouth, MN 55441
P 763.412.4000 F 763.412.4090 ae-mn.com


**Project Location**

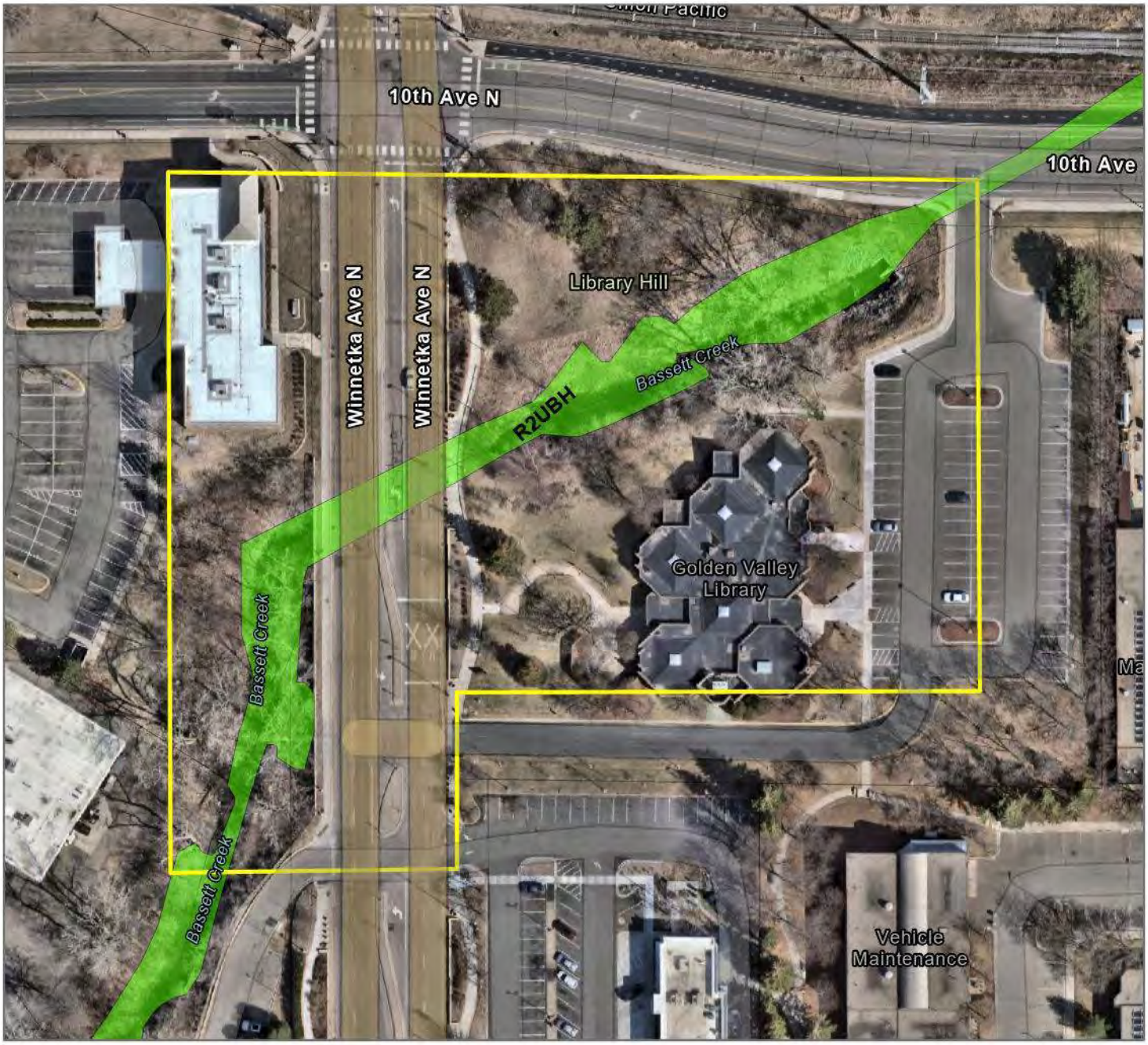


City of Golden Valley
Hennepin County, MN

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

**Winnetka Ave. N. (CSAH 156) Bridge Replacement**
Golden Valley, Minnesota

**Figure 2**
National Wetland Inventory




**Legend**

- Environmental Clearance Boundary
- County Parcels
- National Wetland Inventory

**Address:** Winnetka Ave.
Golden Valley, MN
**Lat/Long:** 44.988426 -93.380386
**PID:** Multiple
**Project No:** 19270
**Date:** 7.28.2026

1 inch = 100 feet

0 50 100 200

Feet

ANDERSON
13605 1st Ave N #100, Plymouth, MN 55441
P 763.412.4000 F 763.412.4090 ae-mn.com

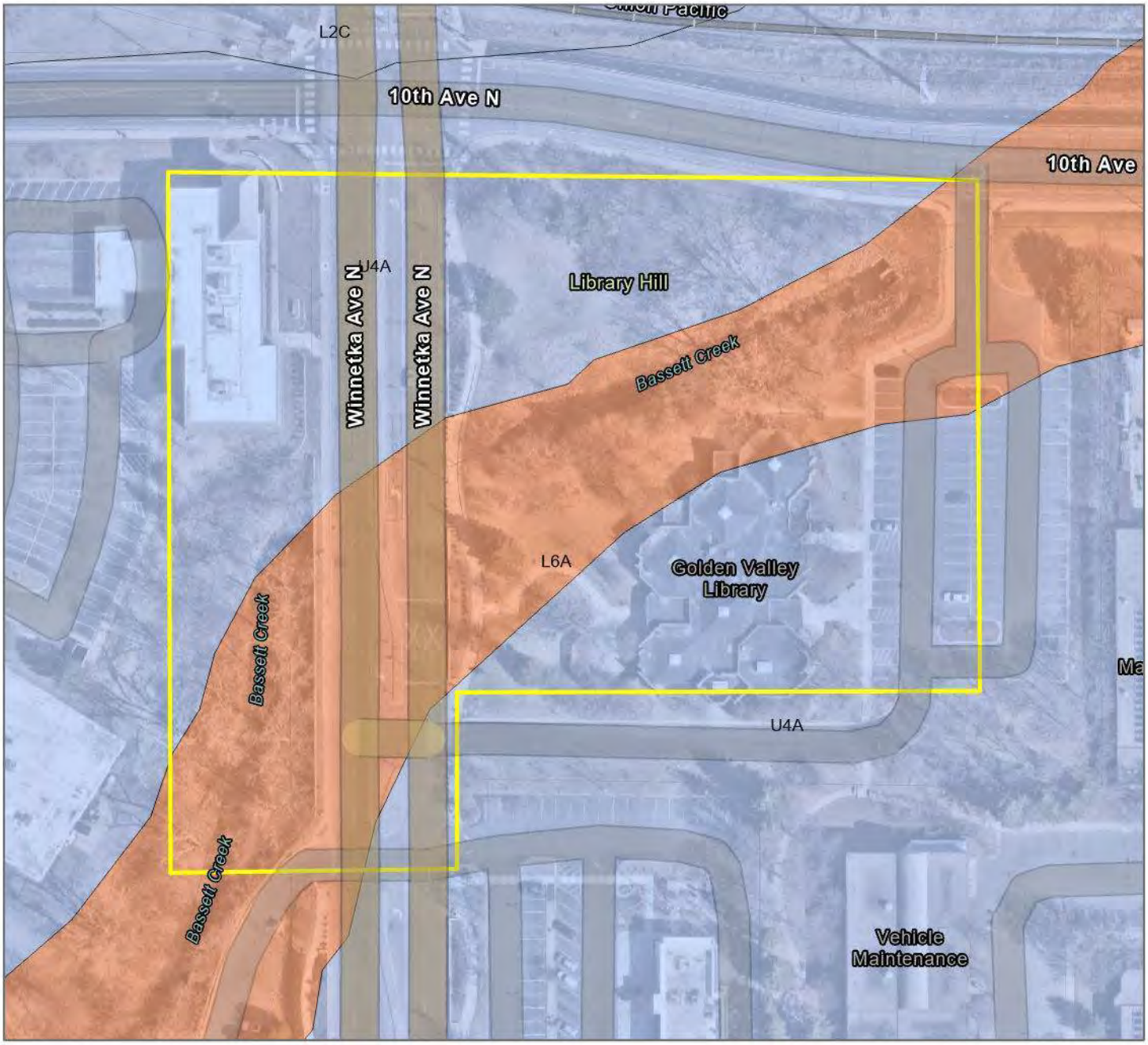
**Project Location**



City of Golden Valley
Hennepin County, MN

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

**Winnetka Ave. N. (CSAH 156) Bridge Replacement** **Figure 3**
Golden Valley, Minnesota Hennepin Co. Soil Survey




**Legend**

- Environmental Clearance Boundary
- County Parcels

Hydric Rating by Map Unit

- 0% Hydric Components
- 1-32% Hydric Components
- 33-65% Hydric Components
- 66-99% Hydric Components
- 100% Hydric Components

**Address:** Winnetka Ave.
Golden Valley, MN
**Lat/Long:** 44.988426 -93.380386
**PID:** Multiple
**Project No:** 19270
**Date:** 7.28.2026

1 inch = 100 feet

0 50 100 200

Feet

ANDERSON
13605 1st Ave N #100, Plymouth, MN 55441
P 763.412.4000 F 763.412.4090 ae-mn.com

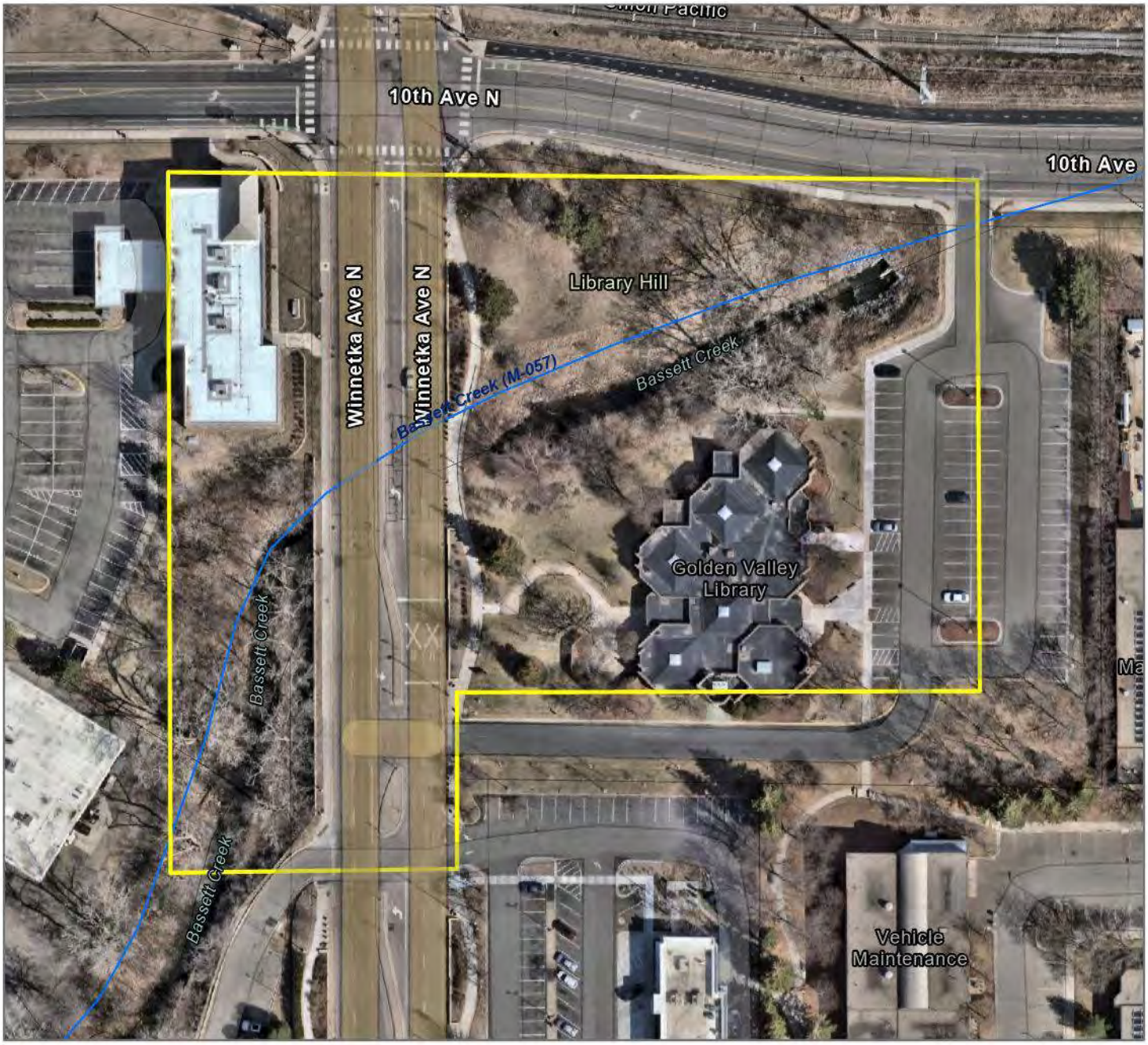
**Project Location**



City of Golden Valley
Hennepin County, MN

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

**Winnetka Ave. N. (CSAH 156) Bridge Replacement** — **Figure 4**
Golden Valley, Minnesota — MnDNR Public Water Inventory




**Legend**

- Environmental Clearance Boundary
- County Parcels
- MN DNR Inventoried Public Watercourse

**Address:** Winnetka Ave.
Golden Valley, MN
**Lat/Long:** 44.988426 -93.380386
**PID:** Multiple
**Project No:** 19270
**Date:** 7.28.2026

1 inch = 100 feet

0 50 100 200

Feet

**Project Location**



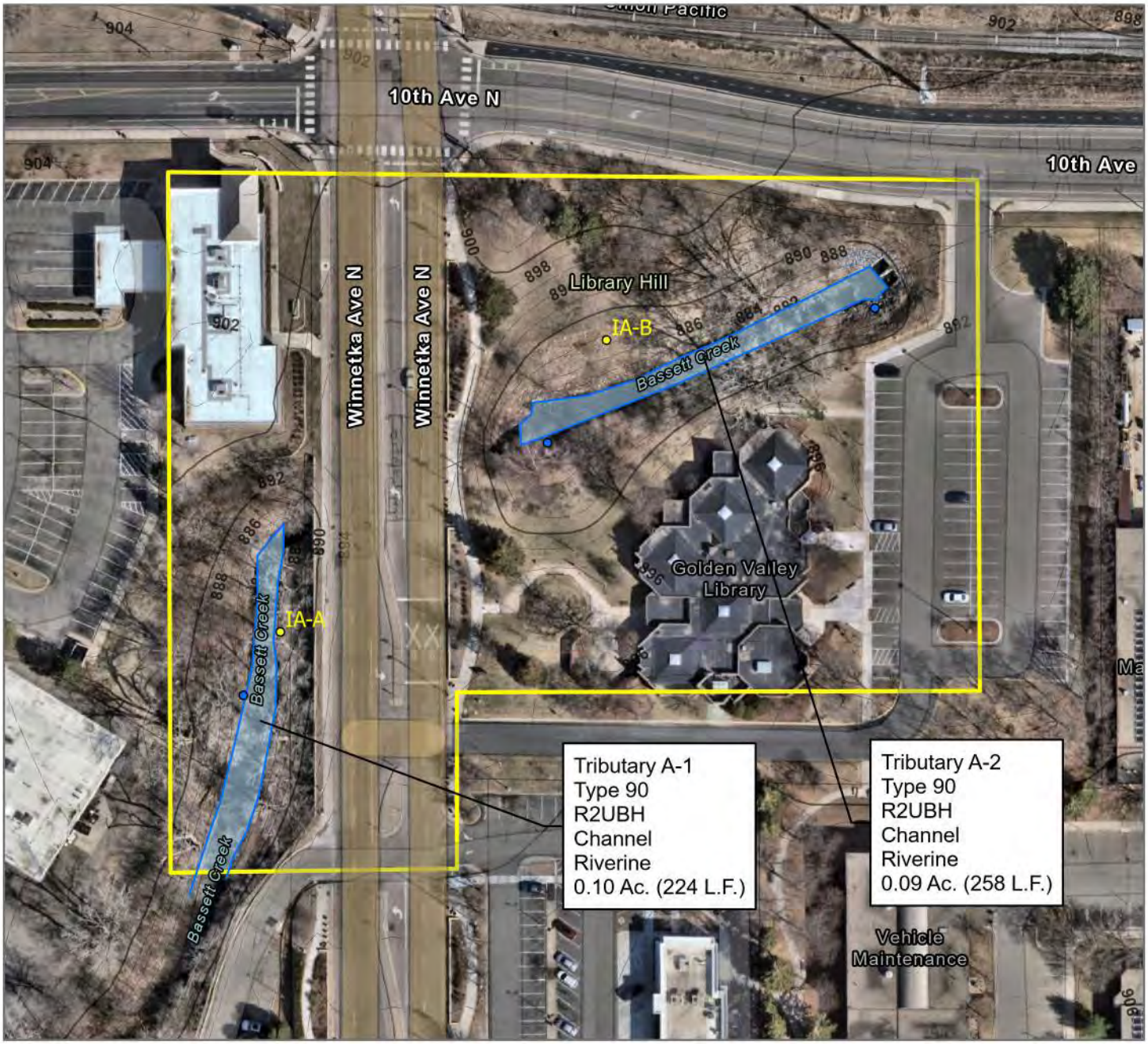
City of Golden Valley
Hennepin County, MN

ANDERSON
13605 1st Ave N #100, Plymouth, MN 55441
P 763.412.4000 F 763.412.4090 ae-mn.com

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

**Winnetka Ave. N. (CSAH 156) Bridge Replacement**
Golden Valley, Minnesota

**Figure 5**
Delineation




**Legend**

- Environmental Clearance Boundary
- County Parcels
- Tributary
- Sample Point
- Culvert

**Address:** Winnetka Ave.
Golden Valley, MN
**Lat/Long:** 44.988426 -93.380386
**PID:** Multiple
**Project No:** 19270
**Date:** 9.18.2026

1 inch = 100 feet

0 50 100 200

Feet

ANDERSON
13605 1st Ave N #100, Plymouth, MN 55441
P 763.412.4000 F 763.412.4090 ae-mn.com

**Project Location**



City of Golden Valley
Hennepin County, MN

SOURCE: MN DNR, USDA, ESRI, TIGER, Bing, Hennepin Co., Anderson Engineering

# Appendix B

## ROUTINE ON-SITE DETERMINATION METHOD DATASHEETS

**U.S. Army Corps of Engineers**
**WETLAND DETERMINATION DATA SHEET - Midwest Region**
See ERDC/EL TR-10-16; the proponent agency is CECW-COR

*OMB Control #: 0710-0024, Exp: 09/30/2027*
*Requirement Control Symbol EXEMPT:*
*(Authority: AR 335-15, paragraph 5-2a)*

Project/Site: CSAH 156 Bridge Replacement | City/County: Hennepin/ Golden Valley | Sampling Date: 08/10/2026
Applicant/Owner: Hennepin County | State: MN | Sampling Point: IA-A
Investigator(s): R. Bergstrom/ G. Wee | Section, Township, Range: S31, T118N, R21W
Landform (hillslope, terrace, etc): Hillslope | Local relief (concave, convex, none): convex
Slope(%): 3 | Lat: 44.98809325 | Long: -93.38069075 | Datum: WGS-84
Soil Map Unit Name: Biscay clay loam, 0 to 2 percent slopes | NWI classification: R2UBH
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes X | No ____ | | |
| Hydric Soil Present? | Yes ____ | No X | **Is the Sampled Area within a Wetland?** | Yes ____ No X |
| Wetland Hydrology Present? | Yes ____ | No X | | |

Remarks: Antecedent precipitation was below the range of average at the time of delineation

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30-ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Rhamnus cathartica* / European buckthorn | 50 | Yes | FAC |
| 2. *Populus deltoides* / Eastern cottonwood | 25 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 75 | = Total Cover | |

| Sapling/Shrub Stratum (Plot size: 15-ft) | | | |
|---|---|---|---|
| 1. *Rhamnus cathartica* / European buckthorn | 75 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 75 | = Total Cover | |

| Herb Stratum (Plot size: 5-ft) | | | |
|---|---|---|---|
| 1. *Rhamnus cathartica* / European buckthorn | 20 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| | 20 | = Total Cover | |

| Woody Vine Stratum (Plot size: 30-ft) | | | |
|---|---|---|---|
| 1. *Parthenocissus quinquefolia* / Virginia creeper | 20 | Yes | FACU |
| 2. | | | |
| | 20 | = Total Cover | |

**Dominance Test worksheet:**
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata: 5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 170 | x 3 = | 510 |
| FACU species | 20 | x 4 = | 80 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals: | 190 (A) | | 590 (B) |

Prevalence Index = B/A = 3.11

**Hydrophytic Vegetation Indicators:**
___ 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
___ 3 - Prevalence Index ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes X No ____

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: IA-A

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0–6 | 10YR 3/4 | 100 | | | | | Silt Loam | Erosion control blanket restrictive |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ 2 cm Muck (A10)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ___ Iron-Manganese Masses (F12)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock/erosion control mesh

Depth (inches): ___

**Hydric Soil Present?** Yes ___ No X

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required: check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ True Aquatic Plants (B14)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

**Wetland Hydrology Present?** Yes ___ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**U.S. Army Corps of Engineers**
**WETLAND DETERMINATION DATA SHEET - Midwest Region**
See ERDC/EL TR-10-16; the proponent agency is CECW-COR

*OMB Control #: 0710-0024, Exp: 09/30/2027*
*Requirement Control Symbol EXEMPT:*
*(Authority: AR 335-15, paragraph 5-2a)*

Project/Site: CSAH 156 Bridge Replacement | City/County: Hennepin/ Golden Valley | Sampling Date: 08/10/2026
Applicant/Owner: Hennepin County | State: MN | Sampling Point: IA-B
Investigator(s): R. Bergstrom/ G. Wee | Section, Township, Range: S31, T118N, R21W
Landform (hillslope, terrace, etc): Hillslope | Local relief (concave, convex, none): convex
Slope(%): 3 | Lat: 44.98868567 | Long: -93.37969929 | Datum: WGS-84
Soil Map Unit Name: Biscay clay loam, 0 to 2 percent slopes | NWI classification: R2UBH
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)
Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No ____
Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

## SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

| | | | | |
|---|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | | |
| Hydric Soil Present? | Yes ____ | No X | **Is the Sampled Area** | |
| Wetland Hydrology Present? | Yes ____ | No X | **within a Wetland?** | Yes ____ No X |

Remarks: Antecedent precipitation was below the range of average at the time of investigation

## VEGETATION - Use scientific names of plants.

| Tree Stratum (Plot size: 30-ft) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 0 | = Total Cover | |
| **Sapling/Shrub Stratum (Plot size: 15-ft)** | | | |
| 1. *Betula nigra* / River birch | 10 | Yes | FACW |
| 2. *Salix interior* / Sandbar willow | 10 | Yes | FACW |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| | 20 | = Total Cover | |
| **Herb Stratum (Plot size: 5-ft)** | | | |
| 1. *Impatiens capensis* / Spotted jewelweed | 15 | Yes | FACW |
| 2. *Rhus aromatica* / Fragrant sumac, Skunk bush | 15 | Yes | UPL |
| 3. *Asclepias syriaca* / Common milkweed | 15 | Yes | FACU |
| 4. *Sonchus oleraceus* / Sow thistle, Common sow thistle | 10 | No | FACU |
| 5. *Phalaris arundinacea* / Reed canary grass | 10 | No | FACW |
| 6. *Salix interior* / Sandbar willow | 5 | No | FACW |
| 7. *Glechoma hederacea* / Ground ivy | 5 | No | FACU |
| 8. *Solidago altissima* / Canada goldenrod | 5 | No | FACU |
| 9. *Asclepias incarnata* / Swamp milkweed | 5 | No | OBL |
| 10. | | | |
| | 85 | = Total Cover | |
| **Woody Vine Stratum (Plot size: 30-ft)** | | | |
| 1. *Parthenocissus quinquefolia* / Virginia creeper | 15 | Yes | FACU |
| 2. | | | |
| | 15 | = Total Cover | |

**Dominance Test worksheet:**
Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
Total Number of Dominant Species Across All Strata: 6 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0 (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 5 | x 1 = | 5 |
| FACW species | 50 | x 2 = | 100 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 50 | x 4 = | 200 |
| UPL species | 15 | x 5 = | 75 |
| Column Totals: | 120 (A) | | 380 (B) |

Prevalence Index = B/A = 3.17

**Hydrophytic Vegetation Indicators:**
___ 1 - Rapid Test for Hydrophytic Vegetation
___ 2 - Dominance Test is >50%
___ 3 - Prevalence Index ≤3.0[1]
___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: IA-B

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-11 | 10YR 3/4 | 100 | | | | | Sandy Loam | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

- ___ Histosol (A1)
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- ___ Thick Dark Surface (A12)
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ 5 cm Mucky Peat or Peat (S3)
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- ___ Loamy Mucky Mineral (F1)
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- ___ Iron-Manganese Masses (F12)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): 11

**Hydric Soil Present?** Yes ___ No X

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required: check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
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- ___ Gauge or Well Data (D9)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
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- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ___ No X Depth (inches): ___

Water Table Present? Yes ___ No X Depth (inches): ___

Saturation Present? (includes capillary fringe) Yes ___ No X Depth (inches): ___

**Wetland Hydrology Present?** Yes ___ No X

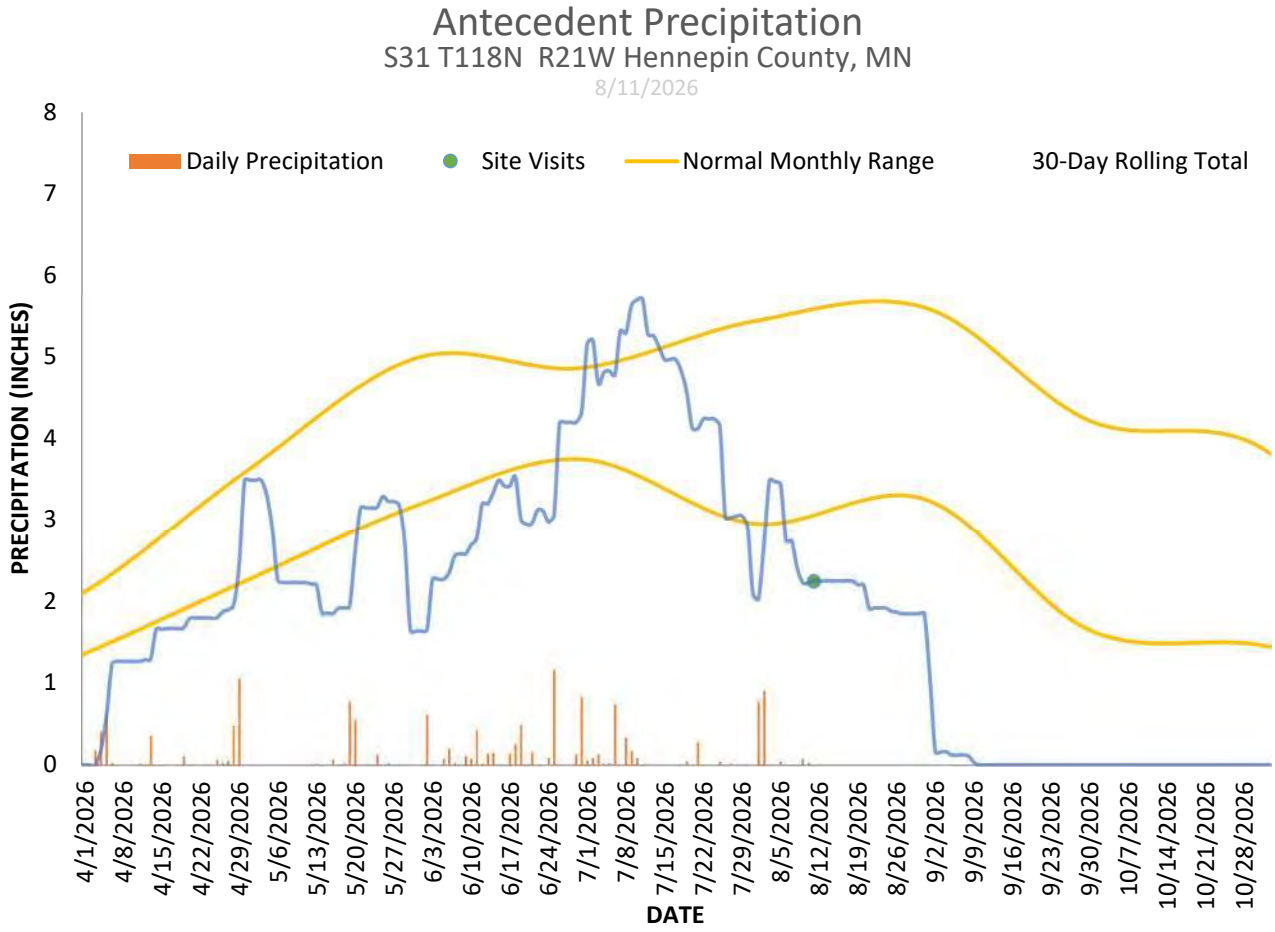
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# Appendix C

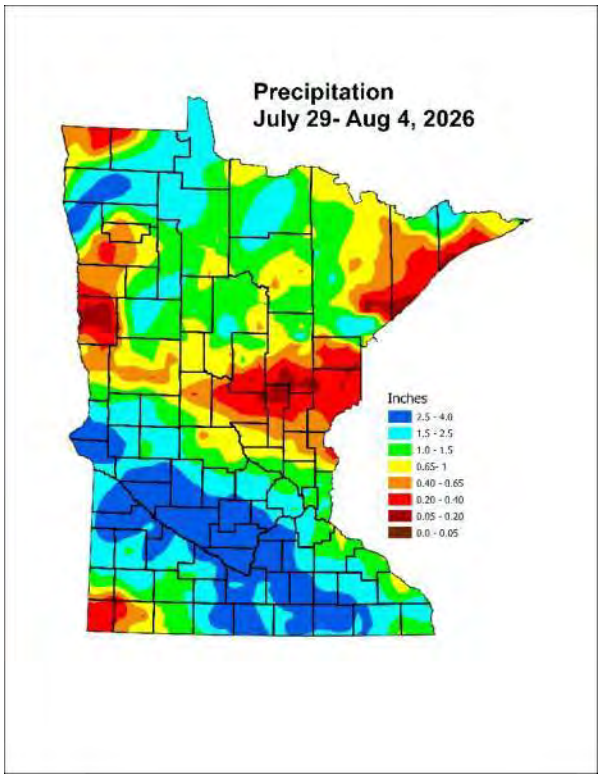
## ANTECEDENT PRECIPITATION RECORD

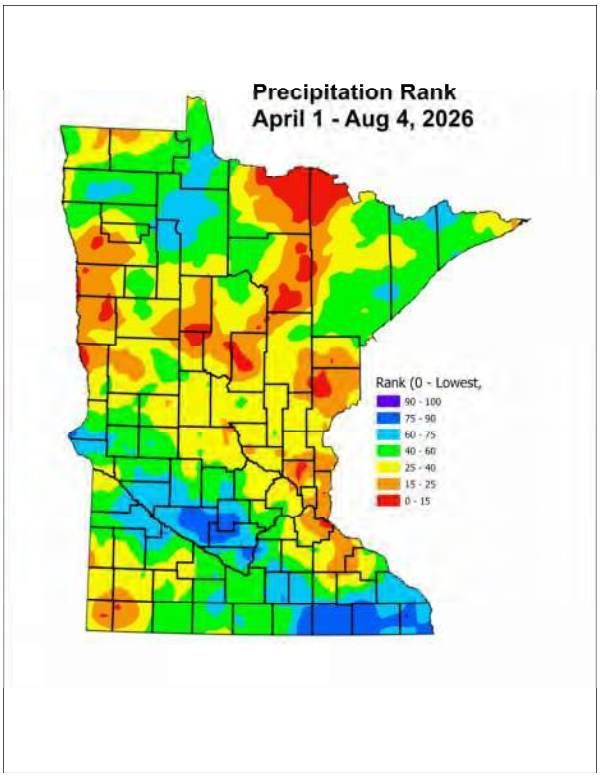
**Appendix C, Figure 1.** Graph of recent precipitation in comparison with the normal range of precipitation in the general site location. Daily precipitation data is plotted independently and as a 30-day rolling total up to the date of the site visit. The normal range is plotted from precipitation data recorded from 1981 to 2010. The normal range is represented in this graph with two lines, the 30th percentile and the 70th percentile of the period-of-record data distribution.

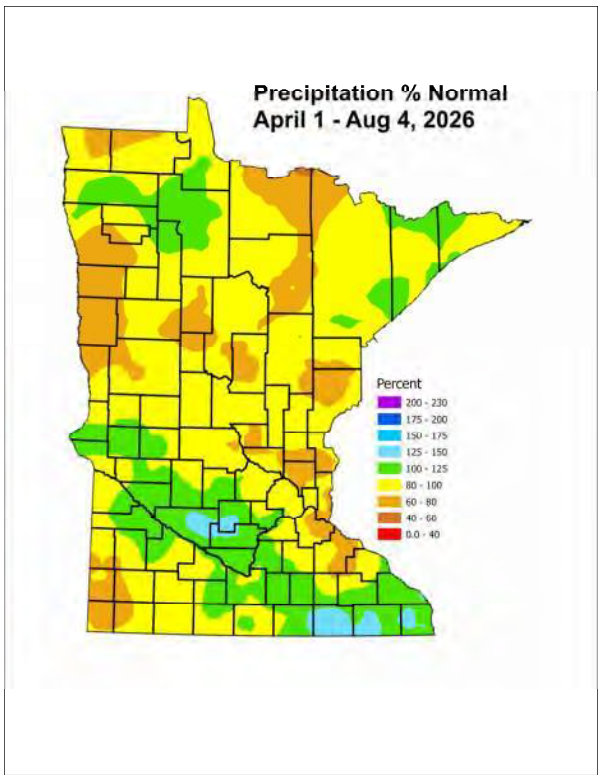



Source: http://climate.umn.edu/

**Appendix C, Figure 2.** Minnesota State Climatology Office map depicting total precipitation for the week of the site visit.




Source: https://www.dnr.state.mn.us/climate/weekmap//maps-produced-august-4-2026.html

# Appendix D

**CREDENTIALS**

# Benjamin Hodapp, PWS

Environmental Specialist

## CERTIFICATIONS

**Professional Wetland Scientist #1832**
**MN Certified Wetland Delineator #1016**

## EDUCATION

MS Water Resources Management
University of Wisconsin-Madison

BS Biology; Ecology
Minnesota State University- Mankato

## SPECIALIZED TRAINING

Wetland Delineation & Management Training
Richard Chinn Environmental Training, Inc.

Wetland Plant Identification
Biotic Consultants Inc.

Plant Identification for Wetland Delineation
University of Wisconsin-La Crosse

Watershed Academy Web Certificate
United States Environmental Protection Agency

## PROFESSIONAL ASSOCIATIONS

Society of Wetland Scientists
MN Wetland Professionals Association (WPA)
MN WPA President 2010
Wisconsin Wetlands Association
Association of State Wetland Managers
Minnesota Native Plant Society
Ecological Society of America

## TOTAL EXPERIENCE

26 years

## YEARS WITH CURRENT FIRM

2004 to Present

## PUBLICATIONS & PRESENTATIONS

*The Future of Rowan Creek Watershed: Connecting Land Use and Management with Water Quality*. 2003. Water Resources Management Workshop 2002, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin, Madison.

*The Tumultuous World of Drainage Districts: An Analysis of Existing Management Arrangements, with Recommendations*. Working Paper Series 2002-1. Water Resources Institutions and Policies, Department of Urban and Regional Planning, University of Wisconsin, Madison.

*South Shore Lake Bemidji Remediation & Restoration*, Society of American Military Engineers meeting June 22, 2016, St Paul, MN.

## SUMMARY OF EXPERIENCE

Benjamin Hodapp, an Environmental Specialist and Senior Project Manager, brings a broad background of knowledge and experience in the environmental field to the Anderson Engineering team. Benjamin has a unique combination of multi-disciplinary academic training and work experience at various levels of federal, state and local government and private consulting.

Benjamin's project experience includes natural resource inventory and assessment; wetland delineation, mitigation design and monitoring; regulatory permitting; agency and stakeholder coordination; environmental impact assessment, environmental document preparation and public outreach.

## REPRESENTATIVE PROJECTS

**Southwest Light Rail Transit- Metropolitan Council – Minneapolis, MN:** Project manager for wetland delineation and permitting efforts in support of multi-disciplinary consultant team for preparation of Final Environmental Impact Statement for proposed 16 mile light rail alignment. Project tasks included completion of wetland delineations, preparation of all federal, state and local wetland permits and wetland mitigation plans, quality assurance and quality control of all deliverable products.

**Harriet Island to South St. Paul Regional Trail – City of St Paul, City of South St. Paul and Dakota County – St Paul, MN:** Project manager for wetland delineation, mapping and assessment efforts in support of multi-disciplinary consultant team responsible for preliminary engineering and final design. Project tasks included project management oversight and coordination, supervising field staff in completion of both off-site and on-site wetland determinations, boundary delineations, GPS mapping and functional assessments. Oversaw preparation of and responsible for quality assurance and quality control of all deliverable products.

**Crosstown Blvd. Pedestrian Trail – City of Andover – Andover, MN:** Project Manager for wetland delineation associated with proposed City trail improvements. Services included a wetland delineation, GPS mapping and functional assessment document findings and coordination and approval of findings with federal, state and local regulatory agencies.

**Bennett Family Park Improvements – Minnetonka, MN:** Project Manager for wetland delineation associated with proposed baseball complex improvements. Services included a wetland delineation, GPS mapping and functional assessment document findings and coordination and approval of findings with federal, state and local regulatory agencies.

**Section 401/404 Wetland Permitting – Fort McCoy Commemorative Park Expansion – Fort McCoy, WI:** Provided project management services for Section 401/404 permitting associated with proposed wetland impacts resulting from the Commemorative Park Expansion Project at the Fort McCoy U.S. Army installation. Project tasks included project management, developing a wetland mitigation strategy in compliance with Section 401/404 and state wetland permitting requirements and oversight and quality control in preparing Section 401/404 permit application.

# Garrett Wee

Environmental Scientist

**EDUCATION**

Bachelor of Science in Environmental Science and Biology

Southwest Minnesota State University-Marshall

**CERTIFICATIONS**

Certified Minnesota Wetland Professional In Training #5538

**SPECIALIZED TRAININGS**

Overview of Wetlands/NEPA training

FEMA/DNR Floodplain management

OSHA 10-hour training

**PROFESSIONAL ASSOCIATIONS**

Minnesota Wetland Professionals Association

Ducks Unlimited (DU)

Pheasants Forever

National Audubon Society

**TOTAL EXPERIENCE**

5 years

**YEARS WITH CURRENT FIRM**

2023 to present

## SUMMARY OF EXPERIENCE

Garrett Wee, an Environmental Scientist, brings a broad range of knowledge and experience in the environmental science field to the Anderson Engineering team. Prior to his employment with Anderson Engineering of MN, LLC, Garrett performed analytical services on extractions from soil and water samples for chemical analysis. Prior to conducting analytical services Garrett spent several years working at an aquaculture research company performing feed nutrition, genetic and water quality studies. During college Garrett spent 2 years with a SWCD as an intern joining site evaluations, environmental surveys and assisting on wetland delineations. He also spent some time working with the natural resources conservation service on identifying watershed areas and classifying soil types.

Garrett's project and previous educational experience includes Haz-Mat response at the operations level and a solid background in chemistry. He has worked with water quality and understands how hydrologic conditions affect the overall composition of a water body. Leveraging his background experience, he has the capability to create biological assessments and compile reports based on those assessments. These reports would highlight the potential implications of these factors on the ecosystem. Garrett has experience with Global Positioning Systems, Geographic Information Systems and Geospatial analysis.

## REPRESENTATIVE PROJECTS

**Wetland Delineation/Reporting – Various Locations**: Services included wetland delineation and reporting in support of linear construction projects and real-estate transactions for federal, state, and local agencies, as well as private companies. Project tasks included completion of wetland field delineations following the 1987 Corps of Engineers Wetland Delineation Manual.

**Permitting – Various Locations:** Acting as permitting specialist for MN Department of Transportation projects including the I-94 Maple Grove to Rogers resurfacing project and experience permitting under the MN Wetland Conservation Act, Clean Water Act Section 401 and 404, and MnDNR Public Water Work Permit Program utilizing MPARS.

**NEPA Documentation – MN:** Services include preparation of Categorical Exclusion Determination documents in accordance with the Minnesota Department of Transportation Highway Project Development Process and the Department of Veteran Affairs (VA) NEPA Interim Guidance for Projects. Tasks include evaluation, coordination, and responding to assist project managers in environmental documentation for Minnesota highways and VA health care facilities.

**MNDNR – Enhancement of public lands and outdoor recreation facilities**
Services include assisting with the MORE (Modernize Outdoor Recreation Experiences) investment that aims to modernize Minnesota's public lands by refreshing facilities and re-engineering roads and trails for sustainability. The project also includes updating over 100 public water accesses to improve accessibility, accommodate modern watercraft, prevent invasive species spread, and enhance climate resilience against stormwater runoff

# Robert Bergstrom

Environmental Scientist

**EDUCATION**

Bachelor of Science in Environmental Science, Policy, and Management
Minor in Water Sciences

University of Minnesota Twin Cities

**CERTIFICATIONS**

Certified Minnesota Wetland Professional In-Training #5597

**SPECIALIZED TRAININGS**

OSHA 30-hour-1910
First Aid/CPR/AED Certified
Minnesota Boater Safety Certification
Construction Installer- UMN Erosion and Stormwater Management Program

**PROFESSIONAL ASSOCIATIONS**

MN Wetland Professionals Association

**TOTAL EXPERIENCE**

3 years

**YEARS WITH CURRENT FIRM**

2024 to present

**SUMMARY OF EXPERIENCE**

Robert is an Environmental Scientist who brings a variety of knowledge and experience to the Anderson Engineering team. Prior to his employment with Anderson Engineering, Robert worked for the Minnesota Pollution Control Agency (MPCA) in the Surface Water Quality Monitoring Unit. Robert was involved in a variety of water quality monitoring programs and this work took him all over the state. Robert gained valuable knowledge in the collection of water quality parameters and is well adapted to safely working in all types of environments.

Prior to his work with MPCA, Robert interned with the Minnesota Department of Natural Resources in the State Climatology Office. At the state Climatology office, Robert's primary responsibilities were data entry and data management of the states combined climatological monitoring networks used in a wide range of decision-making situations by both government and private entities. This work involved a high level of attention to detail and adherence to quality assurance and quality control practices.

Robert's professional and educational experiences highlight his ability to analyze situations and apply sound judgement as it relates to natural resource management and condition assessment. With his Bachelor of Science training and specialization in hydrology and soils, Robert has the skills necessary to analyze and quantify the interactions of natural systems and distill meaningful insights.

**REPRESENTATIVE PROJECTS**

**Trunk Highway 7 Environmental Conditions Corridor Study, MnDOT Metro District**
Provided environmental planning supporting a future Trunk Highway 7 project by MnDOT. Planning consisted of review, analysis, and reporting of publicly available environmental data affecting the proposed roadway section between Hopkins and St. Bonifacius.

**Governing Bylaws Special Assignment, Minnesota Stormwater Research Council**
Dr. Joseph Magner of UMN Twin Cities selected Robert to lead the creation of the 1st edition of the Governing Bylaws of the Minnesota Stormwater Research council. A literature review of bylaws from similar scientific organizations was conducted, analyzing their organizational structure and function. Robert was the primary contributing author to bylaws, which were ratified by the council.

**National Lakes Assessment (NLA) 2022, Minnesota Pollution Control Agency**
Engaged in the sampling and data collection of Waters of the United States (WOTUS) in accordance with the EPA's NLA standard operating procedures for trophic, chemical, biological, physical habitat, human health and other indicators of water quality.

**Rain Garden Stratified Random Sampling, City of St. Louis Park**
Senior capstone project working in a group in conjunction with the City of St. Louis Park. Created a rain garden functionality scoring system. Trained others in the use of the system and field data collection. Primary data analyst for the project. Using a system of Stratified Random Sampling, interpolated results for the entire population of rain gardens by determining the statistically valid range of site samples needed.