



TEP Academy



BWSR Wetland Section | www.bwsr.state.mn.us/wetlands



Minnesota Wetland Professional Certification Program

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MN Wetland Professional Certification Program

Program goal: Provide relevant, accessible and affordable technical and administrative training for all wetland professionals.

- Nationally recognized voluntary training program that certifies 500 individuals working in both private and public sectors from the upper midwest and beyond.
- Provide technical wetland delineation training and administrative training for implementing the MN Wetland Conservation Act.
- Certified individuals must pass In-training and Professional exams and complete continuing education during 3-year renewal periods.

bwsr.state.mn.us/minnesota-wetland-professional-certification-program



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2025 MWPCP Training Courses

Introduction to Wetland Delineation and Regulations

- **Introduction to Wetland Delineation and Regulations:** MNDOT Training Center, Shoreview- June 9-13
- **Introduction to Wetland Delineation and Regulations:** Northland Arboretum, Baxter - September 8-12
- **Introduction to Wetland Delineation and Regulations:** MNDOT Training Center, Shoreview - October 6-10

Professional Exams

MWPCP Exams will be offered at 1pm on: June 13 in Shoreview, September 12 in Baxter, October 10 in Shoreview



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2025 MWPCP Training Courses

Regulatory Training

- **WCA 101 virtual training**- February 4-5 (2 half days) (3 online CEC per day)
- **WCA 201 Virtual training**- February 19 (1 half day) (3 online CEC)

This virtual training will provide an overview of the 2024 statute amendments relevant to the Wetland Conservation Act. Topics to be discussed include wetland classification, jurisdiction of deepwater habitat, agricultural activities exemption provisions and changes to the drainage, de minimis and utility exemptions.

- **TEP Academy**- St Cloud MNDOT training center- April 16 & 17- Two one-day classes (6 CEC per day)

This course is intended for professionals who serve on a Technical Evaluation Panel (TEP) implementing WCA. The content is designed to focus on roles, procedures, important concepts and some common scenarios TEP members encounter. Participants should have some basic level knowledge of how the WCA is implemented but direct experience on a TEP is not required. The content is introductory to intermediate. Participants can choose either date as they will be identical courses.



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2025 MWPCP Training Courses

Technical Training

- **Soils on the Landscape**- Robert Nye Regional Park -April 29 & 30- Two one-day classes (6 CEC per day)
- **Wetland Delineation Methods w Field Practicum**- Cloquet Forestry Center- May 20-22 (18 CEC)
- **Plant ID**- Shoreview MNDOT Training Center (July 14) and Cloquet Forestry Center (July 16)-Two one-day classes (6 CEC per day)
- **MWPCP Regional Wetland Training- Northeast MN**- Hermantown City Hall- August 12-13 (6 CEC per day)
- **Hydrogeomorphic Method of Classifying Wetlands**- Hartley Nature Center, Duluth- October 28-29- Two one-day classes (6 CEC per day)
- **Wetland Banking & Monitoring for Consultants**- Shoreview MNDOT Training Center- November 12-13 (12 CEC)



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Registration Information

Registration for 2025 MWPCP courses will be staggered and open on the following dates:

- Registration for Virtual Training Courses- 8am on January 21
- Registration for Introduction to Wetland Delineation & Regulation classes- 8am on February 24
- Registration for April- June Classes- 8am on March 3
- Registration for July-October classes- Week of June 16

Email reminders will go out to the MWPCP and BWSR Wetland Conservation Act (WCA) email contact lists for registration dates.

- Email bwsr.mwpcp@state.mn.us to be added to list

MWPCP maintains a waitlist for all full classes



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Certification Updates

- Need 18 continuing education hours (6 online)
- Current renewal period ends on December 31, 2025 for individuals who passed exams in 2022.
- Do not need to report MWPCP classes
- Use Credit Reporting Form
- List of approved classes on MWPCP page
- If not listed, use Credit Determination Form
- Notify us if you change jobs or email



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TEP Academy Agenda

- Agenda:
- Overview of a WCA TEP
- TEP Procedures:
 - Common Decisions
 - Replacement Plans
 - Wetland Banking
 - Local Road Program
- Enforcement Procedures

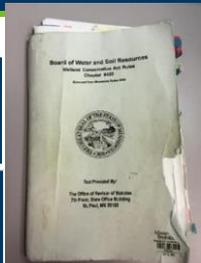
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WETLAND CONSERVATION ACT (WCA)

State Law passed in 1991

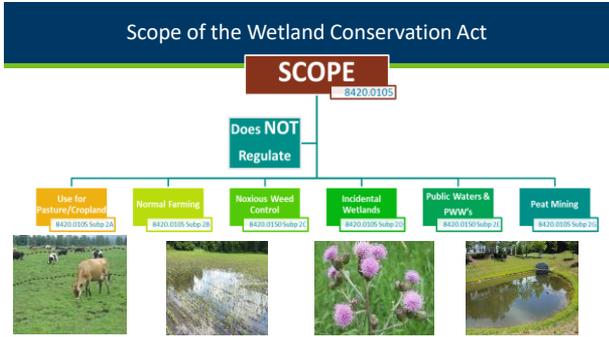
MN Statute **103G** and parts of 103A,B,E,F

MN Rule Chapter 8420

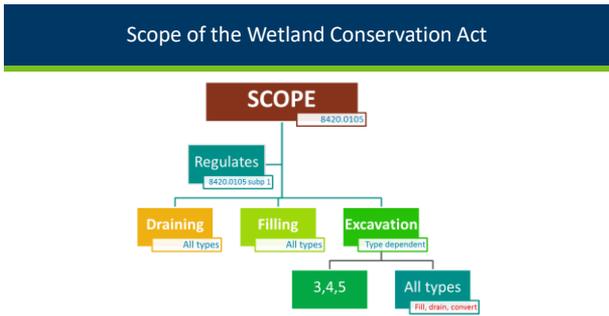


<https://bwsr.state.mn.us/wetlands-regulation-minnesota>

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What is an Impact?

A loss in quantity, quality, or biological diversity of a wetland caused by draining or filling in all types or by excavation in types 3, 4, or 5.



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What is Fill?

Any solid material **added or redeposited** in a wetland

- Alters cross-section or hydrological characteristics,
- Obstructs flow patterns,
- Changes Boundary, or
- Converts to non-wetland.



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Wetland Fill

- Does not include posts for walkways, bridges, powerline poles, etc.



- Does not include slash or woody vegetation as long as it originated from vegetation growing in the wetland and does not impair flow or circulation of water.



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What is Excavation?

Removal of soil by any method if it results in an impact*.



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What is Drainage?

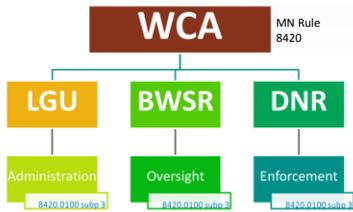
Any method for removing or diverting waters from a wetland

- Excavation of a ditch
- Tile Installation
- Filling
- Diking
- Pumping
- Diverted water
- Etc.



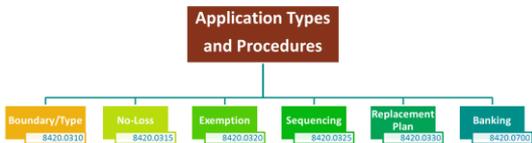
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Key Roles Implementing the Wetland Conservation Act



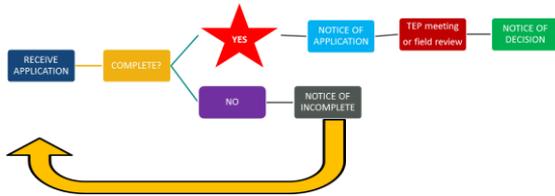
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WCA Decision and Application Types



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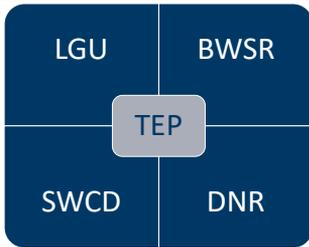
Typical WCA Application Process



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Technical Evaluation Panel

- Plays a key role in implementation.
- Representative from LGU, SWCD, BWSR and DNR (if project effects public waters and/or in shoreland zone).
- Primary role is to advise LGU on decisions. Some decisions depend on TEP recommendation.
- TEPs often advise landowners/applicants during pre and post application reviews.



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When should you hold a TEP meeting?

- Complex or difficult projects
- Visible, high-profile, or public projects
- LGU is applicant
- Enforcement cases
- Bank plan and monitoring report reviews
- Local Government Road Wetland Replacement Program projects



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When does TEP have to be involved?

- At least one member of TEP makes site visit before making findings
- Extension for temporary impacts
- "certifying" SWCD projects and wildlife exemptions
- Extending restoration orders
- Local Road projects
- Wetland Credit Deposits



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TEP Meetings

- Step 1: Define purpose of TEP discussion/review (set a formal agenda)
- Step 2: Have an open discussion (there will be disagreements)
- Step 3: Summarize and agree to conclusions (find common ground)
- Step 4: Write Findings Report (be clear and concise)



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TEP findings & recommendations

- Communicate the cumulative result of field visits, report reviews & informal discussions.
- Give the applicant/landowner direction on next steps (if any).
- Often provide the LGU with the basis for their decision.

[TEP Form](#)

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What if the LGU doesn't agree with TEP?

- The LGU must provide detailed reasons for rejecting the [TEP] finding of fact or recommendation in its record of decision; otherwise, the LGU has not sufficiently considered the TEP report.

I'm not arguing, I'm just explaining why I'm right.

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Detailed reasons for not following TEP recommendation?

"The Board felt that the TEP's recommendation to deny the application was unreasonable and therefore we approve the application."

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Reasons for not following TEP recommendation

"The Board finds that the TEP's recommendation to reject the application based on the availability of a reasonable and prudent alternative alignment to the proposed road (impacting less wetland) did not give due consideration to the decreased public safety associated with alternative alignments. The alternative alignments mentioned in the TEP's recommendation result in unsafe sighting distances at road intersections according to national safety standards. Therefore, the Board finds that there are no feasible and prudent alternatives and approves the application."

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TEP review example

Consider the following slides:
Think about what questions should be asked
What findings could TEP generate?



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Pre-application consult

- Landowner proposes subdivision as second phase to development visible to the east
 - First subdivision was approved under de minimis
- Four proposed lots
- One road with individual driveways
- Each lot needs two septic locations
- Landowner wants to know if project is eligible for de minimis



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Findings:

- Reviewed previous de minimis decision
 - Found no remaining de minimis
- Does not qualify for de minimis
- Project located in shoreland- DNR official TEP
- Lot A almost entirely wetland
 - 2 SSTS locations & building site?
- Can road cross at narrow spot in lot A?
- Can Lot A be reconfigured to meet zoning requirements?
- Can Landowner access lots from northwest?
- Recommend delineation & replacement plan



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TEP Procedures for Common Decisions

Items to Cover

- Review Common Scenarios
- TEP Forms/Resources
- Documenting TEP Involvement
- TEP Exercises



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Common TEP Scenario's

- Is this wetland delineation accurate?
- Is this a wetland impact?
- Does this qualify for an exemption?
- Does this replacement plan meet sequencing requirements?
- Does the site have potential for a wetland bank?
- Is this project eligible for the local road program credit use?
- Is this a violation? If so, how should it be restored?



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Scenario 1 Is this wetland delineation accurate?



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Scenario 5 – Regulated Wetland under WCA?



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Regulated Wetland?



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Regulated Wetland?



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Regulated Wetland?

TEP Review and Findings...

- Wetland Indicators met; Approved delineation
- Proposed to
- Soil/NWI.....
- Aerial photo review....
- Wetlands 3 and 6 meets def. of Incidental; out of scope (8420.0105 Scope)
- Wetlands 4 & 5 need more information; or replacement



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Exercise

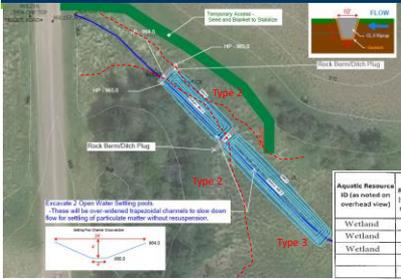


TEP Charge

- Review Submittal
- Request Additional Info?
- Develop Findings
- Make Recommendation

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Exercise



- SWCD applying to implement Water Quality/TP reduction project for public waters basin 75' to west
- Excavate and Fill in FWM/SM along ditch prior to outlet into lake
- Rock berms approx 1 ft above adjacent grade

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (Wetland, lake, tributary etc.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact (Permanent (P) or Temporary (T))	Size of Impact*
Wetland	Type 2	Fill/Excavate	Permanent	2,000
Wetland	Type 3	Fill/Excavate	Permanent	2,000
Wetland	Type 2/3	Fill/Grading	Temporary	6,000

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Ag Exercise

- Findings:
 - What areas qualify for the Ag Exemption?
 - Annually seeded crop?
 - Woody vegetation?
- Recommendation:
 - Approve as submitted?
 - Approve with Conditions?
 - Need more information?
 - Deny?



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Ag Exercise #2



- TEP Goals**
- Review Submittal
 - Discuss Findings
 - Other Information Needed
 - Recommendations?

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2024 WCA Statute Changes The New Agricultural Exemption

Replacement plan is not required for:

- impacts to wetlands on agricultural land labeled prior converted (PC) cropland and drainage maintenance activities authorized by the Natural Resources Conservation Service, on areas labeled farmed wetland, farmed-wetland pasture, and wetland.

Applicable to both

The prior converted cropland, farmed wetland, farmed-wetland pasture, or wetland must be labeled on a valid final certified wetland determination issued by the Natural Resources Conservation Service.

Landowner is responsible to provide a copy of the final certified wetland determination (026 and CWD map) to, and allow the Natural Resources Conservation Service to share related information with, the local government unit and the board for purposes of verification.

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Ag Exercise #2

Project Assumptions

- Open Ditch running thru FWP #3 currently drains into property to south.
- Final plan establishes new outlet.
- NRCS verbally indicated to LGU Final plan would not likely raise any red flags for USDA.



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Ag Exercise #2

Valid Final CWD?

- Enough data?

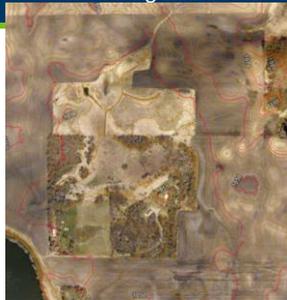
Tile in existing Ditch?

- Same depth throughout most
- Fill over top

New Outlet?

- Prior outlet into main basin
- New outlet would bypass 30-40% of watershed.....

Ag Exemption Met? Critical Piece?

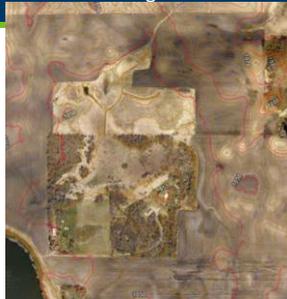


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Ag Exercise #2

TEP Findings

- Valid final CWD was provided wetlands
- FWP and PC/NW labeled areas affected
- Currently ditch has restricted outlet to S
- New outlet would result in indirect drainage impacts (diversion) to wetland outside the CWD area (south)
- Diversion of watershed will result in loss of quantity/quality.
- No CWD or label known on south wetland.



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Replacement Plan Applications

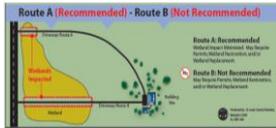
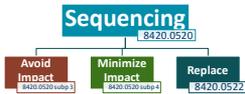


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Replacement Plans

8420.0330 REPLACEMENT PLAN APPLICATIONS.

Subpart 1. **Requirement.** A landowner proposing a wetland impact that requires replacement under this chapter must apply to the local government unit and receive approval of a replacement plan before impacting the wetland.



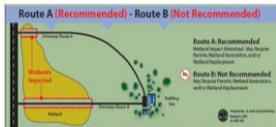
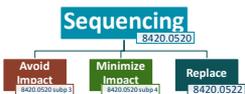
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Replacement Plans

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Application Contents Continued...

- C. for the replacement wetland when the replacement consists of wetland bank credits:
- (1) the wetland bank account number;
- (2) the minor watershed, major watershed, county, and bank service area; (3) the amount of credits to be withdrawn in square feet; and
- (4) a completed application for withdrawal of wetland credits from the wetland bank in a form provided by the board or a purchase agreement signed by the applicant and bank account holder; and
- D. a description of the required replacement as determined according to the proposed replacement actions and the replacement standards in part 8420.0522.

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Special Considerations (8420.0515)

These factors must be considered by the applicant before submitting a replacement and by the LGU during the review

1. Endangered and threatened species (DNR natural heritage/nongame)
2. Rare natural communities (DNR natural heritage)
3. Special fish and wildlife resources (fish spawning, water birds, waterfowl, deer wintering/wildlife corridor)
4. Archaeological, historic, or cultural resource sites (National Register of Historic Places, State Historical Preservation Office)
5. Groundwater sensitivity (Decorah edge, Geologic Sensitivity)



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Special Considerations Continued...

6. Sensitive surface waters (trout stream)
7. Education or research use (Cedar Creek, Anoka Co)
8. Waste disposal site (former dump, superfund, TCAAP/AHATS)
9. Consistency with other plans (watershed management, land use, planning and zoning)



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Sequencing: 8420.0520

- LGU **MUST NOT** approve a wetland replacement plan unless the LGU finds the project complies with sequencing.

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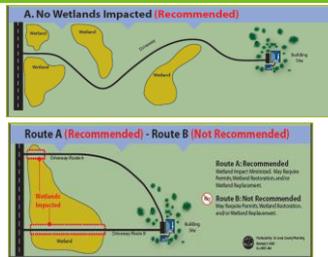
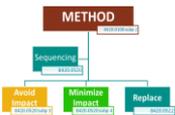
Key Concepts

- Sequencing is a MUST for all replacement plans
- TWO avoidance alternatives
- Evaluate projects...can wetlands be avoided?
- Are impacts minimized?
- Long term effects
- 8420.0520 Subp C – Page 45 of 2009 Rule book

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Sequencing

- Avoid
- Minimize
- Replace



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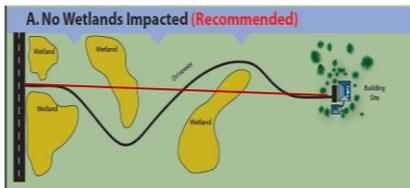
How does applicant *demonstrate* sequencing?

- Clearly define the **purpose** of the project.
- Identify the physical, economic, and/or demographic **requirements** of the project.
- **Justify** why this project should or must go on this site.
- Show (concept plans, discarded grading plans, etc.) and describe other **reasonable alternatives** that were considered or could be considered.

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Impact Avoidance

- If LGU finds that a Feasible and Prudent Alternative exists that avoids impacts, the application must be denied.



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Alternatives Analysis

What is *feasible* and *prudent*?

WCA rule tells us (8420.0520 subp 3C(2)):

- Can be done from an engineering perspective
- Is in accordance with accepted engineering standards and practices
- Is consistent with public health, safety, and welfare requirements
- Is environmentally preferable based on social, economic, and environmental impacts
- Would not create any truly unusual problems

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Evaluating Alternatives (continued)

- LGU must consider (8420.0520 subp 3C(3)):
- Could the size, configuration, or density of the project be modified to avoid wetlands?
- Has the applicant made efforts to remove constraints (zoning restrictions, ordinance requirements, etc.) that are causing wetland impacts (i.e. request for variances, PUD, conditional use permit, etc.)?

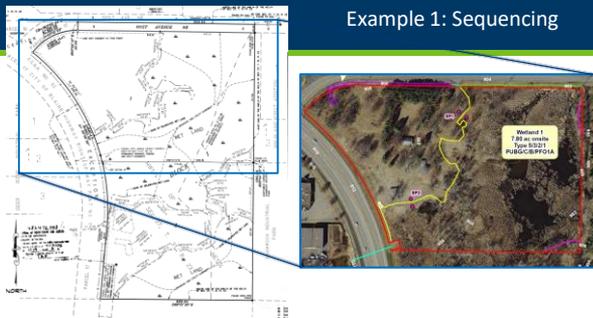
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What if an avoidance alternative DOES exist?

- If the LGU determines that a feasible and prudent alternative exist that avoids wetland impacts, it **MUST DENY** the replacement plan.

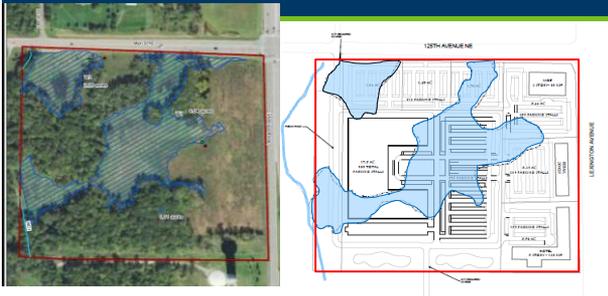
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Example 1: Sequencing



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Sequencing exercise



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Considerations

- What issues?
 - Special Considerations (MN Rule 8420.0515), RNC, T&E, Consistency with other plans: **coordination with DNR?**
 - Sequencing MN Rule 8420.05250
 - Subp. 3 Impact Avoidance: **Can the applicant show avoidance?**
 - C. Alternative Analysis, LGU **must** consider the following... **Other site to accomplish Purpose and Need?**
 - Subp. 4, Impact Minimization: **Has the applicant attempted to modify size, scope, configuration?**
 - Subp. 5, Temp impacts: **Are there any? Entire wetlands on site impacted.**
 - Subp. 6, Reduction or elimination of impacts over time: **Are there any? Entire wetlands on site impacted.**

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Alternatives Analysis Continued...

Future considerations when reviewing a site and potential off-site impacts



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Alternatives Analysis Continued...

• Direct and secondary impacts:

A wetland may not be directly impacted (filled/drained/excavated) but can be impacted through loss of hydrology (storm pond, curb/gutter, pipes, etc.)



Figure 1 - Proposed Plan and Wetland Tributary Impacts

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What if an avoidance alternative does NOT exist?

• LGU evaluates:

- Minimization
- Rectification
- Reduction/Elimination of impacts over time
- Replacement

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Impact Rectification

• Temporary impacts must be rectified by repairing, rehabilitating, or restoring the affected wetland to pre-project conditions



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Reduction or Elimination of Impacts Over Time

- Once complete, further impacts must be reduced or eliminated and preserve or maintain wetland functions
- Best Management Practices (BMP)
- Silt fence
- Storm-ponds
- Buffers
- Drainage areas



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Sequencing Flexibility

- Allowed at the discretion of the LGU if:
 1. Impacted wetland degraded;
 2. Avoidance results in severe degradation;
 3. Upland site of the project or replacement has greater function and value;
 4. Human health and safety is a factor.

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Sequencing – Replacement

Final Review Step

LGU must evaluate if unavoidable impacts will be adequately replaced AND if correctly sited.

Adequate Replacement

- Must replace the functions and values at an equal or greater level than that which was lost.
- Uses wetland area as the unit of measurement (acreage or sq. ft.)

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What are Wetland Banks?

- Market-based commodity system using "Credits"
- Credits are generated by wetland restoration, enhancement, creation, or preservation
- Deposited into account
- Sold to others to offset wetland losses

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Bank types

- Private
 - Standard- Landowners establish bank on private land to mitigate impacts on non-ag or transportation projects
 - Agriculture- Credits can only be used for Ag projects
- In-lieu Fee (proposed)
 - Mitigation NOT completed in advance
 - Open to only government and NGOs, mitigation completed in advance, requires compensation planning framework
- Local Government Road Wetland Replacement Program (LGRWRP)
 - Replaces impacts resulting from local transportation projects



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Why are Banks Preferred

Wetland banks are the preferred replacement type

- Larger more ecologically valuable sites
- Approved using rigorous scientific and technical analysis, planning, and implementation
- Entire site permanently protected by BWSR conservation easement
- Success demonstrated BEFORE credits are released
- Reduced risk and uncertainty

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Why are Banks Preferred



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How Credits are Generated

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How are Credits Generated



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How are Credits Generated



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How are Credits Generated

WCA Credit Actions

- Subp. 2 – Buffer
- Subp. 3 – Restoration, completely drained
- Subp. 4 – Restoration, partially drained
- Subp. 5 – Vegetation on farmed wetland
- Subp. 6 – Protection, previously restored
- Subp. 7 – Creation
- Subp. 8 – ENRV
- Subp. 9 – Preservation

Corps Credit Actions

- Buffer
- Re-Establishment
- Rehabilitation
- Enhancement
- Extended Restoration
- Establishment
- Any or None
- Preservation

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What about the new Cultivated Field Credit (CFC)?

WCA Credit Actions

- Subp. 2 – Buffer
- Subp. 3 – Restoration, completely drained**
- Subp. 4 – Restoration, partially drained**
- Subp. 5 – Vegetation on farmed wetland
- Subp. 6 – Protection, previously restored
- Subp. 7 – Creation
- Subp. 8 – ENRV
- Subp. 9 – Preservation

Corps Credit Actions

- Buffer
- Re-Establishment**
- Rehabilitation**
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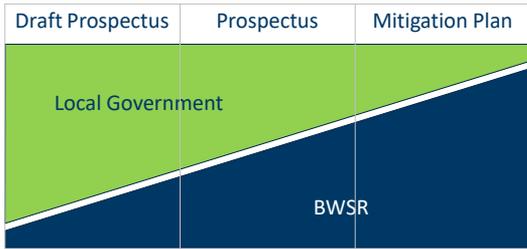
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Establishing a Wetland Bank



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Establishing a Wetland Bank



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Draft Prospectus

- Optional
- No decisions required
- Complex or difficult projects
- Minimal investment

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Draft Prospectus

BWSR Role:

- Staff review and comments
- Identify easement issues
- Identify opportunities and constraints
- Evaluate general feasibility

TEP/LGU Role:

- Provide and compile comments
- Site visit
- TEP meeting to discuss and review comments
- Provide local input
- TEP writes Findings and recommendation for bank sponsor

*Comments commensurate with information provided**

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Could this site be a wetland bank?



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Prospectus

The image shows a 'Wetland Mitigation Proposal Prospectus' form. It includes sections for 'Project Name', 'Project Type', 'Project Location', 'Project Description', 'Project Status', and 'Project Contact Information'. There are also checkboxes for 'Consent to be contacted' and 'Consent to be listed in the prospectus'. The form is partially filled out with text.

- Not required by WCA*
- Required by Corps
- Baseline Information
- Concept Plans
 - Justify Credit Actions
 - Justify Credit Allocation

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Prospectus

General Considerations

- Use the form, read the headings, and provide the requested information
- Focus on Baseline Information to justify credit actions and allocations (objectives)
- Some credit actions require more or specific information
- Concept considered but detailed plans not required

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Prospectus

BWSR Role:

- Evaluate easement issues
- Staff comments now include engineering
- Statewide consistency
- Technical answers and interpretations
- Coordination with Corps

TEP/LGU Roles:

- **Verify previous comments addressed**
- **Verify sponsor adequately described the site**
- **Review wetland delineation or determination**
- **Review ag history (if necessary)**
- **Provide local perspective**

*Comments commensurate with information provided**

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Mitigation Plan



- Required (WCA Notices)
- LGU Decision Required*
- Section 15.99 time-limits!
- Detailed vegetation, construction and monitoring plans
- Final Crediting and performance standards

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Mitigation Plan

General Considerations

- Button-up baseline information
- Accurate credit calculations
- Credit release schedule
- Performance standards
- Detailed vegetation establishment and management plans
- Detailed construction plans
- Detailed monitoring plans

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Mitigation Plan

BWSR Role

- Evaluate easement Issues
- Verify all components are acceptable and meet WCA requirements
- Engineering review of final plans

TEP/LGU Roles

- Follow WCA notification and decision procedures
- Track 15.99 time-limit and extend as needed (it will be needed)
- Coordinate TEP meeting and site visit
- Compile and evaluate all comments
- TEP findings and recommendation

129

Construction Certification

Construction as-built documentation provided to LGU:

- Surveyed elevations of slopes, contours, outlets, and embankments
- Seed tags and contractor receipts
- Site preparation activities described
- Surveyed construction and seeding maps
- Construction photos showing relevant work
- Evidence engineered features were designed, overseen, and certified by licensed PE
- Comparison of as-built vs. design specifications and rationale for significant changes

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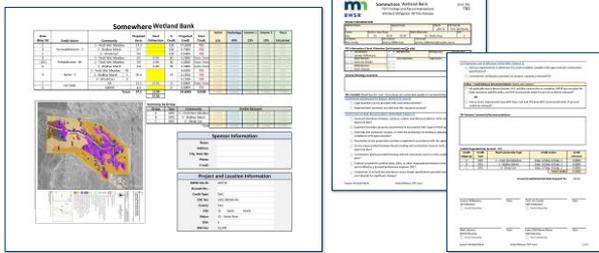
Construction Certification

Once as-built documentation is received the LGU must:

- Complete an on-site inspection
- Determine whether as-built conditions comply with construction specifications in the approved plan
- Ensure an engineer has certified the construction
- If not in compliance, notify the bank sponsor what is needed to gain compliance
- If in compliance, the initial credit release can be authorized

134

Deposits



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Deposits

- Up to 15% of credits can be deposited after construction certification and easement is accepted
- Remaining credits released based on schedule and performance standards in the approved Mitigation Plan
- Releases reviewed by the TEP and LGU
- Deposit form and fee is sent to BWSR banking administrator for entry into the state wetland bank
- Subject to MS 15.99!!!

136

Credit Release Schedule

Determines "when" credits can be released and in what proportion

Typical release schedule*

- Initial (≤15%)
- Hydrology (0 - 45%)
- Interim 1 (variable)
- Interim 2 (variable)
- Final (≥ 20%)
- [Performance standards and credit release guidance](#)

Release Schedule	Typical Release Schedule
Initial Release (≤15%)	Initial Release (≤15%)
Hydrology (0 - 45%)	Hydrology (0 - 45%)
Interim 1 (variable)	Interim 1 (variable)
Interim 2 (variable)	Interim 2 (variable)
Final Release (≥ 20%)	Final Release (≥ 20%)

137

Performance Standards

Performance standards determine "if" credits can be released

- Observable or measurable physical, chemical, and/or biological attributes confirming project objectives are met
- Demonstrate improvement beyond baseline condition
- Show progression to the Final release
- All credit areas and actions need to achieve their standard(s) for credits to be released

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Performance Standards

Common hydrology metrics

- Meet standard for 2 full growing seasons
- Reference site ($\pm 20\%$) - critical for drought conditions
- Water table/inundation timing and duration measurements
- Expect wells with daily readings

A. Success Criteria Summary
Summary of Success Criteria Standards and Current Metrics for 2017.

Metric	Success Criteria	Measured Criteria	Success Criteria Met?	Comments
Hydrology - Standards used for 2017 - 2018				
Elevation	Water between 6 inches above and one foot below ground surface	Measured hydrology is between 6 inches above and one foot below ground surface	Yes	Former hydrology monitoring well repaired for 2017. Success based on other site observations.
Duration	Moisture of the growing season	Hydrology was within the desired range for the majority of the growing season	Yes	
Vegetation				
Diversity	Minimum of five native species	79 native species have been observed	Yes	Species diversity increased from 2015 to 2017.
Composition	Minimum of two sedges and two grasses	Eight sedges and eight grasses have been identified	Yes	Species composition stable
Invasive species coverage	No more than 10% total cover	Total cover of invasive species is less than 10%, and has been effectively controlled.	Yes	Seed canopy grass is less than 5% coverage.
Invasive species concentration	No single areas greater than one-quarter acre in size	Invasive species remain under control with no single area greater than one-quarter acre in size.	Yes	Slight increase of sedge density, but sward again in 2017 to control.

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Performance Standards

Common vegetation metrics

- Interim 1 met for 2 consecutive seasons
- Interim 1 NNI relative cover $\geq 50\%$
- Final NNI relative cover $\geq 70\% - 90\%$
- Species richness of 5, 10, and 15 NNI species for most communities
- > 50% hydrophytes for wetland communities
- Maximum bare ground/open water area

A. Success Criteria Summary
Summary of Success Criteria Standards and Current Metrics for 2017.

Metric	Success Criteria	Measured Criteria	Success Criteria Met?	Comments
Hydrology - Standards used for 2017 - 2018				
Elevation	Water between 6 inches above and one foot below ground surface	Measured hydrology is between 6 inches above and one foot below ground surface	Yes	Former hydrology monitoring well repaired for 2017. Success based on other site observations.
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140

Monitoring Reports



Hydrologic Monitoring of Wetlands
MN Board of Water & Soil Resources
Supplemental Guidance

April 2013



BOARD OF WATER AND SOIL RESOURCES

Vegetation Monitoring for Compensatory Wetland Mitigation Sites

04/20/2011
Version 1




141

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Monitoring Reports

WCA reference: 8420.0810, subpart 4

- WCA requires monitoring reports annually – December 31 deadline to LGU
- First report due the first full growing season after construction certification
- Monitoring period is typically 5 growing seasons (minimum of 3)

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TEP Roles

WCA reference: 8420.0800, subpart 3

The LGU (TEP) “must inspect and certify” as-built documentation

WCA reference: 8420.0820, subpart 1, Item A

The LGU (TEP) “must evaluate all monitoring reports received ...” to determine if the goals of the approved plan are being met

143

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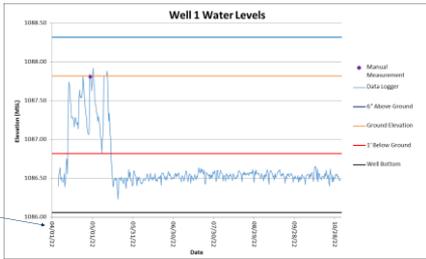
Monitoring Schedule

- Monitoring must begin no later than first full growing season after construction certification
- Typically continue for 5 full growing seasons
- If unsuccessful, the LGU may extend the monitoring period (<5 additional years)
- Actual monitoring schedule may vary for different bank types (restoration vs preservation)

WCA Code/Action	Name	Type of	Credit Release Schedule				Watershed	Watershed	Watershed	Watershed
			Code	Year	Month	Day				
8420.0810	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0820	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0830	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0840	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0850	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0860	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0870	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0880	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0890	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0900	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0910	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0920	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0930	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0940	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0950	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0960	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0970	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0980	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.0990	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	
8420.1000	Annual Monitoring Report	Annual	12/31	12/31	12/31	12/31	12/31	12/31	12/31	

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Hydrograph Issues

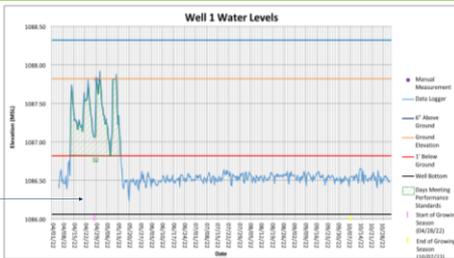


How do we verify that 28 consecutive days are met?

When does the growing season start?

151

Hydrograph Issues



Lines depicting daily intervals

Now includes Start/End of the growing season

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Summary

- Understand your role in reviewing bank applications and monitoring reports
- Understand performance standards
- Understand how to review a monitoring report
- Once the monitoring report is reviewed and is accurate, process deposit form
- Be cognizant of MS 15.99 timelines for the Mitigation Plan and credit deposit forms

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Questions?



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Local Government Road Wetland Replacement Program

- BWSR is required to replace the associated wetland impacts so the local governments don't have to
- WCA does not require replacement plans for impacts resulting from qualifying local road projects
- These wetland credits also satisfy Corps of Engineers' Section 404 permit requirements



155

What projects Qualify?

- **Repair, rehabilitation, reconstruction or replacement of *currently serviceable*** existing State, City, County or Town public road.
 - Provided that:
 - Project **minimizes impacts**
 - **Plans are provided** to the LGU
- What doesn't qualify?
 - New roads
 - Roads expanded solely for additional capacity lanes



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Local Road Program - Eligibility

- Cannot involve new roads or roads expansion for additional traffic capacity lanes in **anticipation** of future demand
- The project must involve repair, rehabilitation, reconstruction or replacement of a **currently serviceable road** to meet state/federal design safety standards/requirements
- Project must **minimize** wetland impacts



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What is a serviceable road?



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Roles/Responsibilities

Road Authority (RA)

- Develops project plans
- Provides application to LGU and USACE concurrently for review within required timelines
- Submits all documentation to BWSR

LGU Administrator/TEP

- Reviews delineation and plans for accuracy and eligibility
- Signs Attachment E if concurs with RA information

Corps

- Separate review process
- Coordinates credit reservations w/ BWSR

DNR

- Reviews materials and signs Attachment E if within the shoreland zone of a Public Water

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Application Requirements

Local Road Authority must provide the TEP the following:

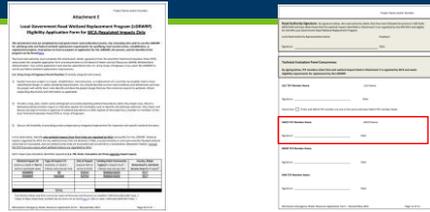
- Project plans depicting wetland boundaries
- Description of wetland impacts by type
- Information demonstrating wetland impact minimization



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Reviewing Local Road Projects



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Common Errors

PART FOUR: Aquatic Resource Impact³ Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact (Permanent (P) or Temporary (T))	Size of Impact ³	Overall Size of Aquatic Resource ¹	Existing Plans Community Type(s) in Impact Area ²	County, Major Waterway #, and Bank Service Area # of Impact Area ⁴
W-1	Wetland	Fill	P	0.37	N/A	Type-3	County, 3
W-2	Wetland	Cut	T	0.02	N/A	Type-2	County, 3
W-3/Spring Creek	Wetland/Fill	Fill	P	0.003	N/A	Type-1	County, 3
W-4	Wetland	Cut/Fill	P	0.26	N/A	Type-2	County, 3

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Errors

PART FOUR: Aquatic Resource Impact³ Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photos, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary, etc.)	Type of Impact (fill, encasement, drain, or remove vegetation)	Duration of Impact (Permanent (P) or Temporary (T))	Size of Impact (A)	Overall Size of Aquatic Resource ³	Existing Plant Community Type(s) in Impact Area ⁴	County, Major Watershed #, and Bank Service Area # of Impact Area ⁴
W-1	Wetland	Fill	P	0.37	N/A	Type 3	County, 3
W-2	Wetland	Cut	T	0.03	N/A	Type 2	County, 3
W-3/Stone Creek	Wetland/Trib.	Fill	P	0.002	N/A	Type 3, Type 2	County, 3
W-4	Wetland	Cut/Trib	P	0.76	N/A	Type 2	County, 3

Annotations: Project Name and/or Number; Include the project name and SAF, CR, SP number if applicable; Single ID and Resource Type per line; Make sure to include the County, Watershed, and ISA; Only one type of impact per line; Use correct area; Incorrect typing.

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Qualifying Project

CSAH 18 is currently listed as a 2-lane rural A Minor Arterial Expander Highway, with an east-west orientation. CSAH 18 has a posted speed limit of 55 mph and an Average Daily Traffic (ADT) count of approximately 5,300 (2017). Currently, CSAH 18 has a poor pavement condition and a lack of sufficient shoulders and turn lanes. This has contributed to crashes along the corridor. Specifically, the Anoka County Roadway Safety Plan (July 2013) revealed that over a five-year period there were seventeen crashes, of which five were determined to be lane departure crashes, often associated with inadequate roadway shoulders. Based on this analysis Anoka County has determined a need to create a safer roadway.

CSAH 18 Crash Data 2013-2015

	ADT	Crash Rate*	Severity rate**	Difference
MaDOT state-wide Average for Rural 2-lane roadway with 5,000 to 8,000 ADT	5,000 - 8,000	0.35	0.55	63% higher
Crash Rate for CSAH 18 between CR 19 and CR 62 (2013 - 2015)	5,300	0.57	0.86	56% higher

* Per million entering vehicle miles

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Qualifying Project

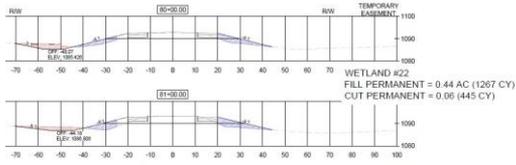
Currently, the roadway structure has deteriorated, the width is narrower than Standards, slopes within clear zones are steeper than Standards, and the current bridge does not allow for crash-tested guardrail and guardrail end treatments. The purpose of the project is to reconstruct this segment of County Hwy 4 to meet State Aid Standards (Min. Rule 8820.9920) in order to meet the transportation needs of the public. Attached is a set of plans for the area of impact.

Excessive traffic queueing on TH 19 (driven by large trucks utilizing the Flying J Travel Plaza) is congesting the in place CSAH 46/TH 19 intersection, causing significant safety concerns. The intersection will be realigned and the roadway will be designed to be in compliance with Chapter 8820 of State Aid Operations (extracted from MN Rules 2013, including amendments adopted through October 30, 2017), specifically 8820.9920 Minimum Design Standards: Rural and Suburban Undivided; New or Reconstruction Projects and 8820.9926 Minimum Design Standards: Rural and Suburban Undivided; Reconditioning Projects. In addition, the current edition of the MN Department of Transportation's "Standard Specifications for Construction", including all supplemental specifications, will apply to the project. Finally, MnDOT has provided design guidance and requirements for work associated directly to MN TH 19 improvements.

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Class exercise – interpreting construction plans



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Class exercise - interpreting construction plans



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WCA & PW impacts

- Currently Serviceable Road
- Does not meet safety standards
- LRA proposing to raise road, extend shoulders, flatten slopes to meet safety and design standards
- Add "multi-use" trails on both sides of existing roadway
- Does this qualify?
- Who has jurisdiction? Can jurisdiction be waived?



Assess. Measure ID	Assess. Measure Type	Type of Impact	Relative Impact	Size of Impact	Existing Point Community Value or Impact Area	Residual Impact	Final Impact	
1	Wetland	Fill	P	0.54 AC	Seasonally Flooded Area	0.02	0.54 AC	
2	Wetland	Fill	P	0.02 AC	Shallow Marsh	0.02	0.02 AC	
3	Wetland	Fill	P	289 AC	Shallow Marsh	0.02	289 AC	
4	Wetland	Fill	P	1,133 AC	Shallow Marsh	0.02	1,133 AC	
5	Wetland	Fill	P	2,485 AC	Shallow Marsh	0.02	2,485 AC	
Total							0.08 AC	3,393 AC
OW-1	Loss	Fill	P	0.6224 AC	Wetland Open Water	0.22	0.22 AC	
OW-2	Loss	Fill	P	2,365.36 AC	Wetland Open Water	1.74	0.08 AC	
Total							2.00	0.78 AC

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WCA & PW Impacts

Summary

- WCA
 - Road impacts - eligible
 - Trail impacts -- not eligible
- Public Waters
 - Public interest credits
- USACE
 - Concurrence with LGRWRP on road impact
 - Required credit purchase for public waters impacts

Each impact type should be identified separately (i.e., FH, Bldg, Excavation are three **distinct** impact types).

Wetland Impact ID (Name as listed in Part 4 and on overhead sheet)	Type of Impact (FH, Excavation, or Bldg)	Size of Impact (Square feet or acres for 0.10)	Existing Plant Community Typical in Impact Area?	County, Major Waterbody, and Bank Service Area # of impact?
W-1	FH	100	B001	Baltimore Forest
W-2	FH	100	B001	Baltimore Forest
W-3	FH	110	B001	Baltimore Forest
W-4	FH	100	B001	Baltimore Forest

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Attachment E – Joint Application

Project Name and Number: 04P-000-00-000

PART FOUR: Aquatic Resource Impact Summary

If your proposed project involves a ditch or related impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all potential impacts, including those reported to be temporary. Attach an overhead sheet with calculations and/or drawings showing all of the aquatic resources in the project area and the boundary of the proposed impacts. Label each aquatic resource on the map with a reference number in order and identify the impacts in the following table:

Aquatic Resource (Name as listed on overhead sheet)	Aquatic Resource Type (Wetland, lake, tributary, etc.)	Type of Impact (Excavation, ditch, or Temporary Impervious)	Location of Impact (E, W, S, N)	Size of Impact (Square feet or acres for 0.10)	Existing Plant Community Present?	County, Major Waterbody, and Bank Service Area # of Impact Area?
W-1	Wetland	Exc	E	0.07	N/A	Shallow Marsh County, 23, 3
W-2	Wetland	Exc	E	0.02	N/A	Shallow Marsh County, 23, 3
W-3	Wetland	Exc	P	1.00	N/A	Floodplain County, 23, 3
W-4	Wetland	Exc	P	0.26	N/A	Floodplain County, 23, 3
Sewer Catch	Tributary	Exc	P	25.00	N/A	County, 23, 3

Wetland Impact ID (Name as listed on overhead sheet)	Type of Impact (FH, Excavation, or Bldg)	Size of Impact (Square feet or acres for 0.10)	Existing Plant Community Typical in Impact Area?	County, Major Waterbody, and Bank Service Area # of Impact?
W-1	FH	100	Baltimore Forest	County, 23, 3
W-2	FH	110	Baltimore Forest	County, 23, 3

All impacts to aquatic resources

Only impacts from Part Four that meet the LGRWRP criteria

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Attachment E – SIGN IT!!!

Project Name and Number:

Read Authority Signature: The signatory herein, the read authority, certifies that they have followed the provisions set forth in the permit and that the project will be completed in accordance with the permit conditions. Signature: _____ Date: _____

Read Authority Representative Name: _____
Signature: _____ Date: _____

Technical Evaluation Panel Consensus:
As signed herein, the permit conditions are in accordance with the permit conditions and are approved by the permit conditions. Signature: _____ Date: _____

Check box If this is a 0.10 and 0.100 permit and one is in the area and one is in the area and one is in the area.

0.100 Permit Member Name: _____
Signature: _____ Date: _____

0.100 Permit Member Name: _____
Signature: _____ Date: _____

0.100 Permit Member Name: _____
Signature: _____ Date: _____

Attachment E - Read Authority Signature Form - Revised 06/15/2023 Page 31 of 32

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Enforcement Procedure Overview



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SWCD Role in a violation

- Landowner contact for ROs
- Site visit- gather information/evidence
- Prepare Restoration/Replacement Order
- Monitor restoration/ replacement site.
- Certificate of Satisfactory Completion

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LGU Role in a violation

- Help Determine if site has permit for work or prior work done
- Landowner contact for CDO or RPN
- Set up site visits
- Assist SWCD with RO findings
- Assist with gathering evidence
- Receive ATF applications from landowner
- Track the cases

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BWSR's Role in a violation

- Rule interpretation
- Bounce ideas back and forth
- May contact more specialist BWSR staff to assist in difficult projects
- Assist SWCD/LGU in developing RO's
- Assist in technical findings

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DNR Role

As a member of TEP

- Provide technical assistance in case which require DNR as a member of TEP
- Provide information on instances where a public waters permit is needed
- Minnesota's endangered, threatened, and special concern species
- Bounce ideas back and forth

As an enforcement role

- Issue Cease and Desist(CDO)/Resource Protection Notice(RPN)
- Serve CDO/RPN
- Grant extensions
- Serve citations
- Liens



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Resource Protection Notices

Used as a notice when activity is complete and no sign it will continue

182

Cease & Desist Orders

Used when equipment is onsite and it appears the activity will continue to impact wetlands.

ANY VIOLATION OF THIS ORDER IS A MISDEMEANOR

183

Off-Site Review

Review available data prior to site visit

- NWI
- FSA/Google Earth/Pictometry
- Web Soil Survey
- Topo
- LiDAR



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On-Site Investigation

Who

- Landowner/responsible party
- SWCD & LGU
- Conservation Officer when needed

What to bring

- Soil Auger
- Munsell
- Data collection app (ArcCollector/Trimble)
- Useful off-site information collected



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On-site Investigation

Soft Skills

- Talk to landowner/responsible party to determine what happened and why
- Avoid putting the landowner/responsible party immediately on the defensive
- Do not apologize for doing your job

186

On-site Investigation

What to collect

- Map out the nature of the activity (areas of fill, excavation, etc.)
- Soil borings within areas of impact and adjacent
 - Take note of wetland indicators
 - Fill out data sheets
- Pictures, pictures, pictures
- You may only have one chance to be on-site



After the on-site

- Write up findings right after the site visit
 - Findings should include all information that was found on-site. Assume every RO will be appealed or end up in court
- Disagreement between landowner/responsible party? Require a delineation

187

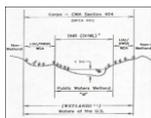
Soil borings



188

Public Waters & WCA Violations

- DNR present during initial site visit to make jurisdiction determination
- Define WCA and Public Waters Impacts
- Work with Area Hydrologist to issue Restoration Orders for both programs



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Drainage example

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191

Restoration/Replacement Order

Restoration Order

- An order that prioritizes the restoration of the impacted wetland
- This order will provide guidance to the landowner/responsible party on how to achieve successful restoration and a timeline

Replacement Order

- An order that requires replacement for wetland impacts
- This is used in situations where restoration is not possible or prudent

A combination of both orders can be used in certain situations

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Bad RO. What would you change?

Findings of Fact (facts that demonstrate the existence of a violation): Attach additional sheets if narrative exceeds space provided.

On September 6 2019 [redacted] received a RPN Notice from the DNR about a potential wetland violation. This is involving a tiling activity on a 4 ac. parcel and a lift pump installation. This activity didn't have a WCA application at this time. [redacted] SWCD tried to set up several meetings with [redacted] but he was having some medical procedure done. On 10/17/2019 I talked to [redacted] and we agreed to meet on site on 10/21/2019. When I arrived at the site I was met by [redacted] a friend of [redacted]. he told me [redacted] had been hurt seriously in a farming accident. I told [redacted] that I would fill out a Wetland Application for him for a No Loss and submit the application for him. The application was denied. There is no cropping history on these acers and acers impacted exceed the exemption standard. (8420.0420) Part B, Subp. 2.

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Horizontal lines for handwritten notes.

Bad RO. What would you change?

You are hereby ordered to restore impacted wetlands in conformance with the following plan and specifications (actions needed to restore including any referenced attachments): Attach additional sheets if narrative exceeds space provided.

1) [redacted] will either have to remove all tile and the lift pump from the impacted wetland acers or buy wetland credits from the Wetland Bank System from (BWSR) Board of Water Soil Resources.

200

Horizontal lines for handwritten notes.

Good RO

Findings of Fact (facts that demonstrate the existence of a violation): Attach additional sheets if narrative exceeds space provided.

5/15/20- SWCD received 2 complaint calls regarding excavation within wetland areas of the field. 5/21/20- SWCD investigated the complaint from the county road and determined that new drainage ditches were created within the wetland areas, and across the field. 5/22/20- SWCD Mailed letter to the landowner regarding the potential violation. 5/28/20- Landowner contacted SWCD by phone. The completed work was discussed, as well as the rules of the Minnesota Wetland Conservation Act 6/9/20- SWCD and BWSR staff reviewed the recent excavation within the wetland portions of the described parcel. It was found that the new ditches drain 3 separate wetlands in the field and share the same outlet into the fringes of Horseshoe Lake. Wetlands impacted include a 1.4 acre Type 2 Wet Meadow, 0.80 acre Type 2 Wet Meadow, and a 0.95 acre Type 3 Shallow Marsh. There is no evidence of any preexisting drainage features within any of the wetland basins. The impacted wetland areas have been reviewed for No-Loss and Exemption Standards within WCA. Specifically, Exemptions under Agricultural Activities. An aerial slide review and an onsite review of the field was completed. It is determined that the impacted wetlands do not meet any of the No-Loss or Exemption criteria. It is agreed that the completed work is a violation of the Wetland Conservation Act.

201

Horizontal lines for handwritten notes.



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AFT Applications

- Review the application like any other
- 21 days per rule to submit an ATF but there is flexibility
- Keep track of your timelines (15.99)
- What is the application requesting?
 - No Loss, Exemption, Replacement
- Keep an eye out for
 - Poor exhibits/figures – show what is needed
 - Second avoidance alternative
 - No loss/exemption specifics
 - Purpose and need not well defined... or not at all

Determine Complete Application

- 15 Business days from the date of receipt (date stamp)

Send the Notice of Application

- 15 Business days from date of receipt of a complete application

Set the Comment Period

- Minimum 15 Business days from the date of sending the Notice of Application
- 20 calendar

Make a Decision

- 40 Calendar days from the receipt of a complete application
- 20 calendar (20 day additional extension requires applicant approval)

Send the Notice of Decision

- 10 Business days from date of decision

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AFT Applications

Poor Exhibits




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AFT Applications

Good Exhibits



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AFT Applications

Replacement

- Sequencing still applies
- The LGU must require the landowner/responsible party to replace impacted wetlands at twice the normal ratio

Minimum Replacement Ratios: Banking		
Location of impact	Replacement	Minimum replacement ratio
≥50% area or agricultural land	Outside bank service area	2.5:1
	Within bank service area	2:1
<50% area, 50-80% area, and nonagricultural land	Outside bank service area	2.5:1
	Within bank service area	2:1

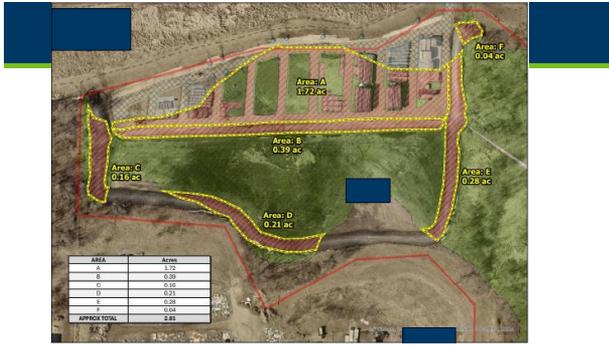
**X 2
ATF**

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Mock Violation

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Questions?

mi BOARD OF WATER AND SOIL RESOURCES

Minnesota Wetland Professional Certification Program

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