

Remaining MWPCP 2025 Courses

- Regional Training –Hermantown– August 12-13
- Introduction to Wetland Delineation & Regulations- Brainerd - September 8-12
- Introduction to Wetland Delineation &Regulations- Shoreview- October 6-10
- Hydrogeomorphic Method of Classifying Wetlands- Duluth- October 28-29
- Wetland Banking & Monitoring for Consultants-Shoreview- November 12-13



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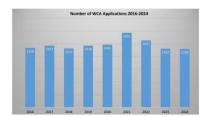
Agenda for Regional Training

- WCA Activity in NE MN
- 2024 Statute Changes
- TEP Procedures in NE MN
- Trail Projects
- Complicated Violations

- Preservation Wetland Banks
- Intro to HGM
- Red Parent Material
- Sloped Wetlands
- Delineating Sloped Wetlands Field Exercise

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Minnesota Wetland Professional Certification Program

Statewide WCA Activity



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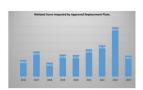
NE MN WCA Activity

- Includes DNR and MNDOT
- Averages about 40 decisions per County per year
- To date, LGUs in NE MN have made ~120 decisions



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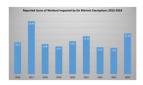
Replacement Plans



2024 approvals

- St Louis (incl. Duluth, Hermantown), Lake, Cook and Carlton Counties approved about 14 acres impact via replacement plans
- To date ~20 replacement plans have been approved (or are under review) in NE MN

De minimis Exemptions

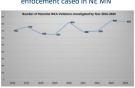


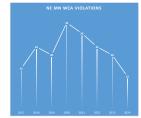
- Carlton permitted ~30,000 ft^2
- St Louis County permitted ~45,000 ft^2 impact
- Hermantown permitted ~42,000 ft^2 impact

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WCA Enforcement in NE MN

- Averages about 4 violations per County per year
- 9 open or recently closed formal enfocement cased in NE MN





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DNR TEP Members

- DNR TEP member must sign TEP findings for projects within shoreland
- Assist in coordinating Rare Natural Community determination

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Albin, Dow Wing	Jacob Print, Anna Physiologist	219-201-4368	1901 Minnesota Dr. Brainwell, MN 16400	Jacob Pro@Mate.miss	
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R Administrative Regions:



Projects in Multiple Jurisdictions

- If project overlaps LGU jurisdiction, then the LGU is:
 - One with zoning authority over the project
 - If both have zoning authority, then the one in which the most impact occur.
 - Both LGUs can maintain separate jurisdiction if agreed upon.



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Background

Amendments to WCA Statutes since the current rule was adopted (2009)

- 2012
- 2015
- 2017 • 2024

Some amendments require the completion of rule making before they become $% \left(1\right) =\left(1\right) \left(1\right) =\left(1\right) \left(1\right)$ effective, others have been effective since passage.

We will discuss the 2024 amendments, most of which were effective August 1, 2024.

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Info on BWSR website A strikeout-underline version of the statutory amendments and a narrated presentation are posted on the BWSR website.

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Info on BWSR website BOARD OF WATER

Wetlands Regulation in Minnesota

Middle Management in least 12 2009 Wetland Conservation Act fluide and 2011-2024 Statute Changes WCA 305	The major vertical regulatory programs of inference in regulatory and inference are: Department of these Resources Indict interes in Private Programs (interprepare) I returned Conservation Act State & Rosal pregnant) I returned Conservation Act State & Rosal pregnant Conservation State Act S
WCA Program Reports	WCA is implemented at the local level by the local government unit ("LGU"). BWSR promulgates administrative rules for the program, provides training LGUs, participates on technical evaluation panels, hears appeals from local government determinations, and assures proper implementation by LGUs.

Info on BWSR website

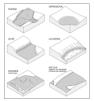


2024 WCA Statute Changes Webinar

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Hydrogeomorphic Classification System for Wetlands

A Hydrogeomorphic Classification for Wetlands (HGM for short) was added as an option for identifying "Wetland Type". HGM will be incorporated into WCA rules for implementation and Circular 39 removed.



HGM classifies wetlands based on their position in the landscape (depression, slope, floodplain, etc.) and their source of water (flooding from stream, lake bounce, seep, etc.).

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Change to the how "wetland type" is defined in MN Statute

Wetland type.

"Wetland type" means a wetland type classified according to Wetlands of the United States, United States Fish and Wildlife Service Circular 39 (1971 edition), as summarized in this subdivision or A Hydrogeomorphic Classification for Wetlands, United States Army Corps of Engineers (August 1993), including updates, supplementary guidance, and replacements, if any, as determined by the board.



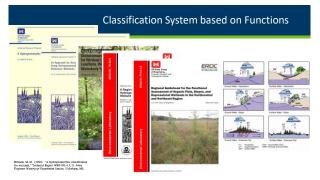
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Hydrogeomorphic Method of Classifying Wetlands

Establishes classes based on geomorphology, hydrology and hydraulic functions of wetlands.

Classification Name	Definition
Lacustrine	Wetland occurs within a topographic depression that has a closed elevation contour that allows the accumulation of surface water and is restricted to the margin of a depressional lake basin.
Riverine	Wetland occurs on a nearly level landform and lies along and is influenced by flooding from a stream, river or flow-through ditch.
Slope	Wetland occurs on a slope (generally >2%) with groundwater discharge as its primary source of hydrology.
Mineral Flat	Wetland occurs on a nearly level landform, is not significantly influenced by flooding from a stream, river or flow-through ditch and has predominately minera soils.
Organic Flat Wetland occurs on a nearly level landform, is not significantly influ flooding from a stream, river or flow-through ditch and has predor soils.	
Depression	Wetland occurs within a topographic depression that has a closed elevation contour that allows the accumulation of surface water and is not associated with the martin of a depressional lake havin.

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Wetland Type NWI Functional Assessment Guidance for Submitting Wetland Delineations in MN Wetland type* means a wetland type classified according to *Wetlands of the United States*, United States Fish and Wildlife Service Circular 39 (1971 edition),-as summarized-in-this-subdivision or, at *Itysto-goomorphic Classification for Wetlands, United States Army Corpo & Engineer, United States, Children Models and Compared States Army Corpo & Engineer, United States, Children Models updates, supplementary guidance, and replacements, If any, as determined by the board.

Deepwater Aquatic Habitats

Non-PW Deepwater Habitats Now Regulated by WCA

- Water bodies that are too deep to be wetlands (generally >8.2 feet deep) and are not big enough to meet the criteria for Public Waters (>2.5 ac incorporated (city) areas, >10 ac unincorporated (Twp) are now subject to WCA regulations.
- This change is effective August 1, 2024. Most of these water bodies include a fringe of wetland that was already regulated by WCA.

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Deepwater Habitat



Deepwater aquatic habitats are areas that are permanently inundated at mean annual water depths >8.2 ft or permanently inundated areas less than or equal to 8.2 ft that <u>do not</u> support rooted-emergent or woody plant species

They have the follow diagnostic characteristics:

- vegetation- no rooted-emergent or woody plant species are present in these permanently inundated areas
- Soil- the substrate technically is not defined as a soil if the mean water depth is >8.2 ft or if it will not support rooted emergent or woody plants

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Limits of wetland (depth)- Deepwater Habitat

Important Considerations for Wetlands

- Must be capable of supporting rooted, emergent vegetation.
- Must have soil.

If the water is too deep or fast flowing, cannot support rooted vegetation and soil cannot form (unconsolidated bottom).



Permanently and Semipermanently flooded areas

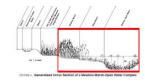
- 2009 Rule language:
- Subp. 51. Permanently and semipermanently flooded area of a type 3, 4, or 5 wetland. "Permanently and semipermanently flooded area of a type 3, 4, or 5 wetland" means the portion of a type 3, 4, or 5 wetland below the level where the water has been maintained for a sufficient period of time to leave evidence upon the landscape, commonly the point where the natural vegetation changes from predominantly aquatic to predominantly aquatic to predominantly apresentation.



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Permanently and Semipermanently flooded areas-Circular 39 & Eggers & Reed

Circular 33	
1	Seasonally Flooded Basins
1	Floodplain Forests
2	Sedge Meadows
2	Fresh (wet) Meadows
2	Wet to Wet-Mesic Prairies
2	Calcareous Fens
3	Shallow Marsh
4	Deep Marsh
5	Shallow, Open Water
6	Shrub-Carr
6	Alder Thicket
7	Hardwood Swamp
7	Coniferous Swamp
8	Open Bog
8	Coniferous Bog



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permanently and semipermanently flooded areas-Typical Water Hydrogeomorphic Method

поілі	Typical Water
Class	Regimes
Mineral Flat	All regimes except permanently flooded (Saturated most of growing season)
Organic Flat	All regimes except permanently flooded (Saturated most of growing season)
Organic Flat	Saturated
Sloped	Saturated
Riverine	Temporary Flooded
Lacustrine Fringe	Semi permanently to permanently flooded (up to 8.2')
Depression	Seasonally Flooded
Depression	Saturated
Depression	Semi permanently flooded (up









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Streams?

Regulatory Authority for Non-PW Intermittent/Perennial Streams added to WCA

- BWSR <u>can adopt rules</u> that protect or mitigate impacts to watercourses that are upstream of Public Waters watercourses (drainage area >2 sq miles).
- This change is not effective until rules are adopted in a future rulemaking when the necessary resources and expertise are acquired to implement it.



2024 WCA Statute Changes The New Agricultural Exemption

Replacement plan is not required for:

lacement plan is not required for:

• impacts to wetlands on agricultural land labeled <u>prior converted (PC)</u> cropland and

- Instruction in the control of the

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.

<u>Landowner is responsible to provide a copy</u> 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 <u>verification</u>;

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Prior Converted Cropland (PC) Qualification Criteria

To qualify, the area labeled <u>PC</u> **OR** <u>PC/NW</u>:

- Must not have supported woody vegetation on 12/23/1985, and,
- Must have been planted with an annually seeded crop at least once before that date.



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WCA Ag Drainage Maintenance Exemption Key Considerations

- Occurs to (not necessarily on) areas labeled W, FW, or FWP.
- Must be authorized under NRCS' Wetland Conservation (WC) provisions.
- May result in impacts to other wetlands (other labels, unlabeled wetlands, wetlands on non-agricultural land, etc.)

Verification Procedure

- Verify that wetland is labeled FW, FWP, or W on a valid, final Certified Wetland Determination
- Verify that the landowner has provided information demonstrating that the maintenance activity is/would be authorized under NRCS' WC Provisions.
 - Consider "same size, same depth", with documentation of existing system, as maintenance.
- If maintenance involves relocation of a drainage system (e.g. from within to outside of the subject wetland), determine whether impacts to other wetlands may occur (draft rule)

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2024 WCA Statute Changes Significant Amendments to Ag-Related Exemptions

Removed from Statute:

- X "6 of 10 prior to 1991"
- X Pasture land exemption
- X "8 of 10"
- X Drainage exemption for unincorporated land assessed drainage benefits

Added to Statute:

- ✓ "Prior Converted Cropland" (PC)
- ✓ NRCS authorized maintenance

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New Statute Language

Subd. 3. Drainage.

- (a) A replacement plan is not required for draining or filling of wetlands, except for draining wetlands that have been in existence for more than 25 years, resulting from maintenance and repair of existing drainage systems, including public drainage systems.
- (b) A public drainage authority may, as part of the repair of a public drainage system, as defined in section 103E.005, subdivision 12, install control structures, realign the ditch, construct dikes along the ditch, or make other modifications as necessary to prevent the drainage of wetlands.

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2024 WCA Statute Changes Significant Amendments to Drainage Exemption

Removed from Statute:

- X Wetland type for eligibility
- X Public Vs. Private Drainage
- X "8 of 10 most recent years" removed

Added to Statute:

 Clarifies repairs completed by public drainage authorities to prevent wetland drainage only apply to <u>public systems</u>

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Drainage Exemption

Maintenance/Repair Provision

Now, the "public" drainage maintenance exemption is the same as the "private" drainage maintenance exemption.

- What remains the same for public systems:
 - ✓ Drainage maintenance that drains wetlands that have existed for 25 years or less is still exempt.
- What changed for public systems:
 - ✓ Now all wetlands that have existed for more than 25 years will need to be evaluated for potential impacts, not just types 3, 4, and 5.

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Drainage/Ditch Maintenance Illustration



General Review Process for Drainage Projects

- 1) Is the activity drainage maintenance?
 - If yes, review Drainage Maintenance Exemption first.
- 2) Does activity drain wetlands in existence for more than 25 years?
 - If no, Drainage maintenance likely applies
 - If yes, Review for Ag Exemption
- 3) Has a valid final Certified Wetland Determination been provided?
 - If no, wetland impacts not exempt/requires replacement
 - If yes, review label and application of Provisions 1 or 2.

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Utility Exemption

• Utilities MS 103G.2241

A replacement plan for wetlands is not required for wetland impacts resulting from:

- new placement or maintenance, repair, enhancement, realignment, or replacement of existing utility or utility-type service, including pipelines, when wetland impacts are authorized under and conducted in accordance with a permit issued by the United States Army Corps of Engineers under section 404 of the federal Clean Water Act
- 1/2 acre threshold was eliminated
- Repair and updating existing septic systems to comply with local, state and federal regulations



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Utilities Exemption

- Previous exemption: impacts to wetlands resulting from the installation, maintenance, repair or replacement of utility lines meeting certain requirements including a ½ acre threshold.
- New exemption: requires that the project be authorized under a permit issued by the U.S. Army Corps of Engineers. The ½ acre threshold was eliminated.

Del	Minimis	Exemption

WCA has a de minimis which exempts relatively small wetland impacts associated with a project. The threshold for this exemption varied by many factors. The exemption was changed as follows:

- Eliminated thresholds based on wetland "type" and location in the 11-county metro area.
- Clarifies that if project wetland impacts exceed the applicable de minimis threshold, all wetland impacts require replacement.
- Additional restrictions added to prevent dividing property to increase de minimis amounts.
- Eliminated previous restrictions related to the landowner's portion of the wetland and the cumulative area drained or filled since 1992.
- · Thresholds were changed

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Exemptions – de minimis

- The de minimis exemption covers small impacts to wetlands typically used for driveways, culverts, small projects by landowners, etc.
- Very specific requirements depending on location in state, local area, shoreland, etc.
 Table 1: Maximum de minimis exemption amounts for per MS 103G.2241 (Aug. 1, 2024)

The state of the s			
Impacts to wetlands, excluding permanent and semipermanently flooded areas of wetland.	Presettlement area of state	Impact area up to (acres):	Impact area up to: (square feet):
Outside of Shoreland Wetland	Greater than 80 percent area	One-quarter (1/4)	10,890
Protection Zone	50 to 80 percent area	One-tenth (1/10)	4,356
	Less than 50 percent area	One-twentieth (1/20)	2,178
Within Shoreland Protection Zone, but beyond structure setback	Statewide	N/A	100
Within Shoreland Protection Zone and structure setback	Statewide	N/A	20 (100)
Impacts to permanent and semipermanently flooded areas of wetlands	Statewide	N/A	400
		etland is isolated from the public w ity to the impact and approved by t	

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De Minimis Exemption

Splitting Projects to Gain Exemptions

 Previously, statute said that projects can't be split for the sole purpose of gaining exemptions. "Sole" was deleted. This means that projects can't be split to gain exemptions even if that was not the "sole" purpose of the split.

Wetland Banking

Review and Comment Timelines

- As with all WCA decisions, a decision on a wetland bank plan must be made in compliance with Minnesota Statutes 15.99 which generally requires a decision within 60 days.
- Statute directs BWSR to establish review and comment period timelines in WCA rule for wetland banking projects. Once adopted, the review timelines would no longer be subject to MS 15.99.
- Does not apply to other WCA application types.

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LGRWRP

Wetland Replacement Responsibility - State Roads

- WCA requires that BWSR provide replacement for wetland impacts associated with public transportation projects meeting certain requirements, except for projects that Minnesota Department of Transportation (MnDOT) is responsible for.
- Statute now clarifies that MnDOT is responsible for wetland replacement on public transportation projects that occur on <u>state</u> roads, regardless of who the project sponsor or co-sponsor is.

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BWSR website WCA Rulemaking page: https://bwsr.state.mn.us/wca-rulemaking BWSR website WCA Rulemaking page: https://bwsr.state.mn.us/wca-rulemaking BRADE OF WATER BRADE OF

WCA Rulemaking Page

- Includes link to State Register Request for Comments.
- Link to statute changes includes a written summary and narrated presentation.

Wetland Conservation Act Rulemaking



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TEP Procedures in MN

- Most active LGUs have standing reoccuring TEP meeting dates
- meet as needed
- Others meet as needed
- Almost all LGUs hold TEP meetings to discuss most applications
 - Esp. replacement plans, complex exemptions, violations, local road projects
- At least one member of TEP needs to make a site visit to make findings
- Don't forget the DNR within shoreland



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TEP Should Always Consider:

- Is the activity within the scope of WCA?
- Who has jurisdiction?
- Are the wetland boundaries identified? Agree?
- Is the activity within Shoreland?
- Are there wetland impacts? If so, type, location, area?
- Do any exemptions apply?
- Is there relevant WCA history?



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)



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



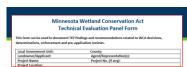
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Description of each section of form

- Project Info
- Purpose of TEP Findings
- Findings
- DNR
- TEP Members Signature

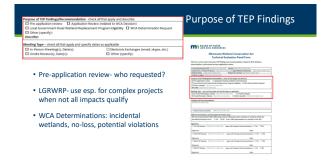


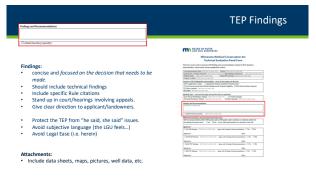
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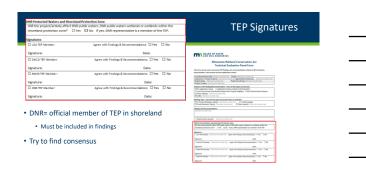


- Project name: Landowner & Nature of Project (i.e. Smith Driveway Exemption)
- Project number: LGU numbering (i.e. 2025-W023)
- Project location: be specific when location is important (i.e. shoreland side of Johnson residence on Round Lake)

AND SOIL RESOURCES	
Minnesota Wetland Conservation Act Technical Evaluation Panel Form	
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	TEP re	ecommendations
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	LGU must consider TEP findings and recommendations	sambar maka a sita
	TEP cannot make findings without having at least one n visit	nember make a site
•	Findings and recommendations must be endorsed by a	majority of members
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	What if the LGU does	n'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 consic the TEP report.	ered
	the rel report.	
		I'm not arguing,
		I'm just explaining why I'm right.
C.E.		
65		
	Detailed reasons for no	t following TEP
	rec	ommendation?
	pard felt that the TEP's recommendation to deny the ap erefore we approve the application."	plication was unreasonable
66		
00		

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."

67

TEP Procedures and Considerations

- Boundaries must be delineated using USACE 1987 Manual and Supplements (8420.0405 subp 1)
- Types must be ID'd using Hydrogeomorphic Method (new Statute) and Eggers and Reed (8420.0405 subp 2).
- Requires NOA and NOD (LGU).
- Technical Decision- at least one member of TEP should make a site visit – often full TEP



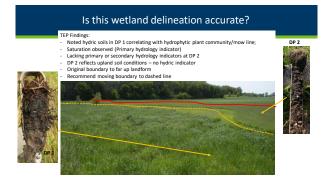
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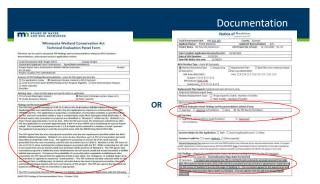
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Solar Panels/Arrays

Impacts - a loss in quantity, quality, or biological diversity of a wetland caused by draining or filling in all types or by excavation in semi/perm. Flooded wetland areas

Wetland <u>fill</u> - does not include posts and pilings <u>unless</u> it turns wetland into a nonaquatic use or significantly alters its functions and value.



73

Solar Panels/Arrays

I I AND SOIL RESOURCES

Guidance on Reviewing Solar Panel Projects for Wetland Conservation Act (WCA) Compliance

there is 1.555...

The discontinued is suggested approach for envisoring properts for error complision when they are installed and under the contractions of their properts or approximate property of the contraction of their properts or any organization of the property are not to provide the contraction of the property are not to provide the contraction of the contraction

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Outline of IEP Evaluation of Potential Impacts of Solar Parells on Posts/Pilings this bit sings as outline of a laggest approximative to under visitate valence of one a single racels in water foreign that representative with All Anderson faired in a resource of the outline or provided in the vertication. TIS findings releasing project reviews on the Baffed oraging this amount outline.

TEP Involvement/Resources

- Review Project/ID potential Impacts
- Review Available Guidance

74

Solar Panels/Arrays

TEP Considerations?

- Evaluate Current Conditions
- Determine Current Function/Value
- Evaluate Effect of Project on Condition/Function
- Discuss Project Modifications
- Develop Findings/Recommendation



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TEP Findings:

- Sloped, Wet Meadow
- Cultivated/row crop & sparse Yellow Nutsedge
- Typical/Reasonable size/layout with posts not resulting in fill
- Wetland functions as recharge to downslope resource 1500 ft away and marginal wildlife use;
- Proposed design allows natural hydrology movement
- Vegetation enhancement/management was added
- Maintains primary wetland functions and cont.

 adjustic use
- Not an impact based on layout/design/operation



76

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De minimis Changes**

impacts to wetlands, excluding permanent and semipermanently fleoded areas of wetland.	Presettlement area of state	Impact area up to (acres):	Impact area up to: (square feet
Outside of Shoreland Wetland	Greater than 80 percent area	One-quarter (1/4)	10,890
Protection Zone	50 to 80 percent area	One-tenth (1/10)	4,356
	Less than 50 percent area	One-twentieth (1/20)	2,178
Within Shoreland Protection Zone, but beyond structure setback	Statewide	N/A	100
Within Shoreland Protection Zone and structure setback	Statewide	N/A	20 (100)
Impacts to permanent and semipermanently flooded areas of wetlands	Statewide	N/A	400

000

77

De minimis

De minimis Reminders

- Covers small impacts (driveways, roads, small projects, etc.)
- Once exceeded on a project, must replace all.
- Impacts do not require a decision **
- Cannot be combined on a project
- Very specific (i.e. location in state/pre-settlement area, shoreland/setback distance, hydro regime, etc.)
- Does not apply to calcareous fens, banks or replacement wetlands

De minin	

TEP Considerations/Findings



Purpose- Helpful but may not affect outcome

<u>Community/Hydro Regime - </u>Seasonally Flooded/Shallow/Deep Marsh Area(s)with Impacts outside semi/perm flooded

Location in State - SW County, <50% presettlement area

Proximity to Shoreland -900 ft to public water basin w/shoreland classification

Net Impacts

• 5250 sq ft of fill impacts to wetlands

79

SWCD or TEP "certifying" projects for exemptions

- SWCD projects (Subp. 2C)
- Wildlife habitat (Subp.9)
- · Options: determination form, email, letter,

Determination	on Notice Form	
This form can be used to provide notice on WCA-rela WCA-deckloru. WCA deckloru are replacement plans to linu and insurenips. Some WCA determination o	, wetland boundary/type, wetland banks	cumption,
us or most be made separate from the associated di		west orsers
Local Government Unit: 5010 SWCD	County Islanti	
Applicant Name: Itent SIICO	Applicant Representative: TX	
Project Name: Blue Lake TP reduction Pro	LOU Project No. (if any):	205-22
Date Request Received by USU: 2/3/22	12	
Date this Notice was Sent: 4/4/22		
Notice Type - check one		
Station of Determination Request, Determination (has not been made.	
Thickice of Determination, Determination has been	made.	
MCA Determination Type - check slither apply		
Construction Certification incomplete Applic		
☐ Successful Replacement/End of Monitoring ☐		
☐ Financial Assurance Release ☐ Partial Strainage In		
Temp. Impacts Extension Contricate of Succ	early Environment of Other (specify): Ag	Subg 2C
Note: All Sisted determination types are either made to		
Construction Certification, Incomplete Application, Ge		by SWCD) and
Financial Assurance Releases. Use "other" for determi	nations that ere net listed	
Sectorical Evaluation Fenel		
TEF Has Concurred with Determination: El Yes - N		reaction
TEP Concurrence Needed: □ Yes □ No: If yes saw:		

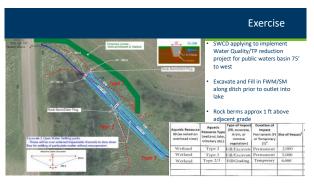
80

TEP Findings/Recommendation • Fresh Wet Meadow/Shallow Marsh Wetland Impacts occurring (fill for rock berms and excavate for settling areas)

- Regulated activity
- Primary purpose is improvement to lake basin water quality by reducing TP input from incoming ag ditch
- SWCD acting as applicant (public
- Ag Exemption, Item C

Recommend approval via Ag Exemp Subp. 2, C. & Require Certification statement submittal by SWCD (post TEP review)





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



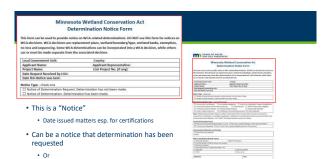
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WCA Determination Form

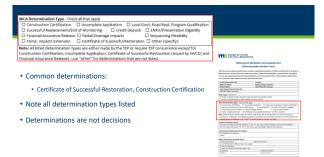
- Used by LGUs or SWCDs to notify others of determinations
- Determinations include:
 - Construction certification
 - Local road wetland replacement program qualification
 - Certification of successful restoration
 - Sequencing flexibility

WCA Determination Form

WCA Determination For			
M) BOARD OF MAI			
Minne	sota Wetland Conservation Act		
	etermination Notice Form		
WCA decisions, WCA decisions are	this on WCA related distriminations. 10 WCF use this form for solices on replacement plans, writined boundary ligar, we find thanks, corruption, is determination to some for incorporated fails a WCA distribute, while others the constituted for him.		
land Government Walt	Courie		
Applicant Name:	Applicant fromwertation:		
Project Name:	LGU Project No. (If and):		
Date Respond For already by 1922	COO PROGRAM DE MINO		
Motice Type - Check one			
	of, Determination has surbeen made.		
☐ Notice of Setsemination, Date:			
□ Successful Regiscoment/Und at □ Prancel Resource Soletime □ □ Famp, Imputs Evidencia Nation & Hallond Information Imputs Nation & Hallond Information Imputs Personal Assurance Soletimes Imputs National Assurance Soletimes Imputs National Evaluation Familia 1131 Has Computed with Enterprise	Incomplier epiphotes — It not font from the privilege on confidence where the privilege of		
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Signature	Culo		



Notice that determination has been made





What projects Qualify?

- Repair, rehabilitation, reconstruction or ${\bf replacement} \ {\bf of} \ {\it currently} \ {\it serviceable}$ existing State, City, County or Town public road.
 - · Provided that:

 - · Plans are provided to the LGU
- What doesn't qualify?

 - Roads expanded solely for additional capacity



88

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 <u>currently</u> <u>serviceable road</u> to meet state/federal design safety standards/requirements
- Project must minimize wetland impacts





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Roles/Responsibilities

- Road Authority (RA)

 Develops project plans

 Provides application to LGU and USACE concurrently for review within required timelines

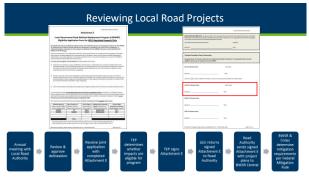
 Submits all documentation to BWSR

- 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







SEH BACKGROUND















94







- Non-motorized
 - Paved bicycle/pedestrian
 - Natural surface trail
- Motorized
 - Class I and Class II ATV
 - Snowmobile





TRAIL PROJECT BACKGROUND



- Trail types
 Fill and surfacing
 Elevated boardwalk

 - Puncheon
 Floating dock





97



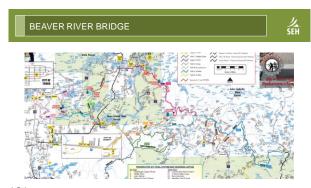
98

BEAVER RIVER BRIDGE









101

BEAVER BIVER BRIDGE

么 SEH

Planning

- Phase I and Phase II
 Prospector's Loop
- Public Outreach
- Route evaluation
- ATV only vs. ATV/Snowmobile Use









• Trail Design • Standards and manuals • Shared use

106



107

Project considerations • Access and parking • Turn radii • Trailers

BEAVER RIVER BRIDGE





Minimization

- ATV vs. Snowmobile & ATV sections (shared use)
- Trail width
- Turn radius
- Bridge upgrades
- Maintenance concerns

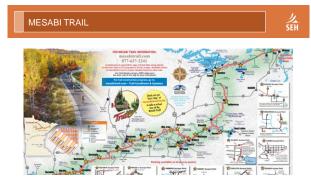
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110









MESABI TRAIL



- Planning
 Alignment evaluation
 Alternative routes
 Geotechnical evaluation
 WMA
 Historic Bridge



115



116

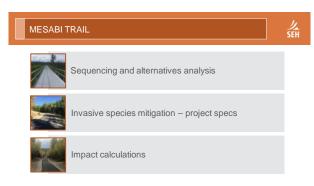


MESABI TRAIL









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WCA Violations & Enforcement

WITHIN THE SHORELAND WETLAND PROTECTION ZONE

Points	

- Communication
 Landowner/Responsible Party
 Conservation Officers
 LGU/TEP

•Data Collection Documentation
 TEP Findings
 Notes
 Tracking System

•Rule Changes

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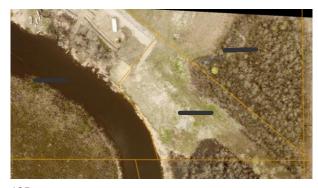




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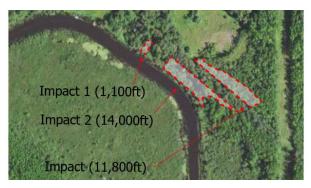








Impacts to wetlands, excluding permanent and semipermanently flooded areas of wetland.	Presettlement area of state	Impact area up to (acres):	Impact area up to: (square feet)
Outside of Shoreland Wetland	Greater than 80 percent area	One-quarter (1/4)	10,890
Protection Zone	50 to 80 percent area	One-tenth (1/10)	4,356
	Less than 50 percent area	One-twentieth (1/20)	2,178
Within Shoreland Protection Zone, but beyond structure setback	Statewide	N/A	100
Within Shoreland Protection Zone and structure setback	Statewide	N/A	20 (100)
impacts to permanent and semipermanently flooded areas of wetlands	Statewide	N/A	400
		etland is isolated from the public w ty to the impact and approved by t	









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- •10/25/22 Site visit to collect data and calculate impacts
- *11/8/22 Contacted by Landowner 1 indicating property was partially sold
- •12/1/22 Met virtually with Landowner 2 to discuss role in and status of wetland issue
 Contractor involved

Etc.

133



134

Any news I'm removing that beaver house? we want to work the whole 4th of July weekend

On Thu, Jun 29, 2023, 10:31 AM

Pre actually seen where they've done a glass down by the water and you can actually watch the beaver

On Thu, Jun 29, 2023, 10:30 AM

The point when they trap them out up there they will just move them and not all them

On Thu, Jun 29, 2023, 10:29 AM

There's some beavers up towards the marion I'm going to try locate him down at my place that are causing a nuisance up there. What's neaster than actual beaver house with the kids to lock at

On Thu, Jun 29, 2023, 10:28 AM

Planners were doing a nature Adventure Park out of all the natural trees nocks and we're going to do that Beover house is part of it for the kids inteaded doing an iron jungle do nature with natural trees and rocks and beaver and turties in my easement area which I can't use anyway

On Thu, Jun 29, 2023, 10:14 AM

Wrote:

On Thu, Jun 29, 2023, 10:13 AM

Wrote:

Conservation Officer Larson stopped by in his travels today and confirmed that the pile of wood debris is not a beaver lodge. Please remove it

Phil Norvitch Resource Conservationis North St. Louis SWCD

136



137



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- Communication
 Responsible Parties and Landowners
 Read the situation
 LGU, TEP & COs

- ■Pick Your Battles
- Situations can get Frustrating; Keep Going



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Impacts to permanent and semipermanently flooded areas of wetlands	Statewide	N/A	400



Tue, Aug 25, 2020 at 12:55 PM	
Based on the attached plan and the Insurance Certifications, I approved the installation of the culverts to be used as an advivir crossing where the Road Bridge used to be. This approval was based upon the assumption that there would minimal grading and disturbance of the existing loopgraphy upstream or	
assumption that thee wood minimal grading and distribution of the existing topography upsite an or downstream of the culvert installation.	
I visited the completed project today. It appears to me that the culverts were installed with minimal site disturbance and that any material excavated to install the culverts was left onsite. If you have any other	
questions or concerns please let me know. Thank you.	
145	
Findings of Fact (facts that demonstrate the existence of a violation): Attach additional sheets if narrative	
exceeds space provided.	
The Technical Evaluation Panel (TEP) met onsite on October 1st 2020. The following are findings from the onsite meeting:	
Approximately 5.000 square feet was placed in a type 2/8 wetland adjacet to the River. Fill materials consist of gravel, cobble and concrete The fill does exceeds the allowable exemption amount and was completed without appropriate permitting. There is an existing amount of fill from the old road grade that was in	
place prior to the Wetland Conservation Act and this impact, this portion was not counted in the impact totals. The property is owned by the City has a road Right-of-Way (ROW) for a load at the location of the impacts. The majority of the fill appears to be within the ROW, however a small portion of the fill appears to be outside of the ROW.	
ATV Club had placed this fill as a part of a stream crossing to provide easier access to a	
gas station and bar, however the crossing and the old road grade is not a part of an official trail system. An Engineer with the City was present at this meeting and indicated the City intends to abandon the road ROW as the ROW and crossing has not been utilized for over 30 years. Given the old road grade is not a part of an official trailway and the City intends to abandon the ROW, this project has no purpose and TEP is	
an official trailway and the City intends to abandon the ROW, this project has no purpose and TEP is making the recomendation to fully restore the site to pre-activity condition.	
146	
146	
Now Therefore, the Board hereby makes the following Order.	
ORDER	
The Board hereby places in abeyance the WCA petition for appeal jointly filed by and so appeal duplicate Wetland Conservation Act (WCA) Restoration Orders, located in the W is of Section (Section 1).	
and the Restoration Orders are hereby stayed until March 1, 2021 for submittal of an after-the- fact wetland application, and/or to give the petitioners time to coordinate with the City of	
n an attempt to resolve the matter, pursuant to Minnesota Rules Chapter 8420.0905, Subp. 1.	
Dated at Saint Paul, Minnesota this 29th day of December 2020.	
MINNESOTA BOARD OF WATER AND SOIL RESOURCES	
By: John G. Jaschke, Elecutive Director	
147	





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Takeaways

- Communication

 Hear out the responsible parties

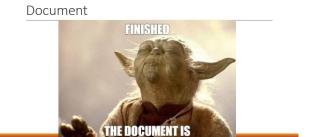
 Be clear in your communication

 Rely on TEP, COs, & the LGU

 We are all HUMAN

- Documentation and Data

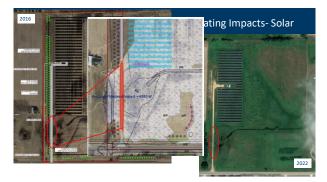


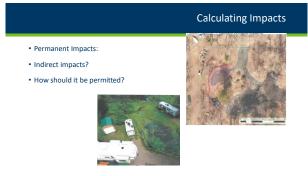


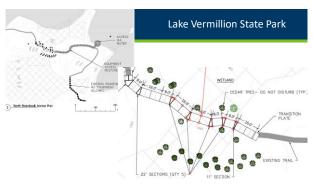
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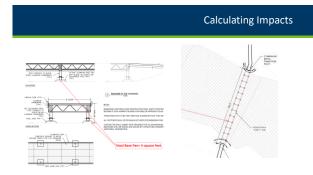


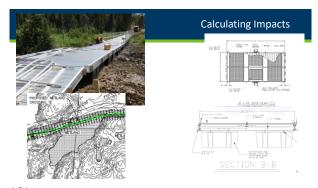
Questions?			_
Questions.			_
Contact Info:			_
Phil Norvitch Conservation Manager- North St. Louis SWCD			_
218-288-6145 or phil@nslswcd.org			
154			_
154			
	Wetland Impact Exercise		
Consider the following scenarios			_
What is the impact to wetlands?Does the impact qualify for an	Solar panel	-	_
exemption?	Boardwalks		
• Temporary impacts?	General development		_
Indirect impacts?	Impacts eligible for LGRWRP		_
	impacts eligible for Editoria		
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C	Calculating Impacts- Solar Panel		
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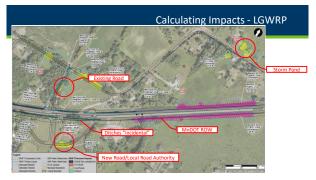


Calculating Impacts - LGRWRP



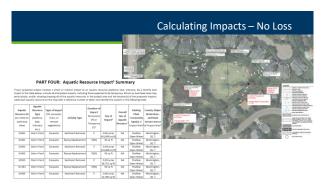
- Repair, rehabilitation, reconstruction or replacement of currently serviceable existing State, City, County or Town public road.
 - Provided that:
 - Project minimizes impacts
 - Plans are provided to the LGU

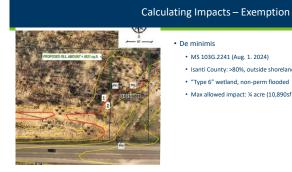
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	DARTE	OUR: Agu	atic Boss		anneti s			ialcula:		GR\	Pojed Asne 1091 (8	mpacts	
report in the table erial photo, and	project involves below. Include or drawing show	a direct or India	ect impact to an pacts, including t until resources in	equatic no those expect to the project	rurce (wetforce of to be tempo area and the I	Liebe, tributer very. Attach on ocation(i) of th	y, etc.) Identify each overhead view map, a proposed impacts.	Eligibilit	nment Road W y Application Fo	etland Rep erm for WC	lacement Program A-Regulated Imp	acts Only	
liquidic Resource ID (as noted on everhead vina)	Aquatic Resource Type (swetlend, lake, tributary etc.)	Type of Impact (Till, excession, drain, or remose superlation)	Ourstice of Impact Permanent (P) or Temperary (II) ¹	Size of Impact*	Overall time of Aquatic Resource *	Existing Plant Community Type(s) in Impact Area*	County, Major Watershed E, and Stank Service Area 8 of Impact Area*	replement projects, rack program can be found just the load road pullwrite was and provided for consistent	inclinate on horse to program of complete this advantage optication have and attack about the second or the	A color species	e the SERRER, the pressure, a ex from the local WCF Techno of all Poster and Just Resources A. down Caspo of Engineers &	of the bounder of the	
Permanent	Wetland	FIE	P	835 SF	N/A	Type 7	St. Lauis, Watershed	ALL from Corp. of Engineers Percel Number (Faircaly pagent) and known).					
Wetland 1 Temporary Wetland 1	Wetland	Remove/Disturb	7	1,275 %	N/A		#0, RIA 1 St. Louis, Wytenhed #3, RIA 1	8 Statists how your project is a major, or habitation, we we described in second or assembly provided in capit to independent of the project of the proje					
Permanent Workland 2	Wetland	Pill	P	1,324 57	N/A	7gpe 6	St. Louis, Wytershed						
Semporary Westland 3	Wetland	Memora/Destura Vegetation	T	369 SF	N/A	Type 6	St. Louis, Wytenhed	complet of two 12" solds madify farch, of with shouldon, the histogram, and a clear zone of 12" beyond the laws. The terminal AET of this reaching is 100 (100%) and they projected AET in 2011/2046). This reconstructed mankings and an expected funding were designed manadisting in the Battle of the Sections of the Section of the Section 12 (I because of a beautiful as					
Permanent Wartend 3	Wetland	Fill	P	4,049.5F	N/A	Type 7	St. Louis, Wytenhed	"Standard Specific replaced.	where for Construction," I	To calcing results	rity class and conditions to come	nd shandards and massive	
Sumporary Workend S	Wetland	Remove/Disturb Vegetation	7	2,600 5F	N/A	Type 7	St. Louis, Watenhed #5, #5A 1	7) Provide a hop, plan, and/or water photograph accorded popular waterfacultural are written the project one. At act is abstract a plant or distinction/statementation report or otherwise region for continued a continued and defining a policytic, April plant and					
Personett Warfand d	Wetland	PI	P	1,558 37	N/A	7yye 7	St. Louis, Watershed		ere or approved of autitions on Farest Stirt or Coquar		or expects of the project by a	nember or numbers of the	
Temporary Workers &	Wetland	Remove/Disturb Vegetation	7	3,069 SF	N/A	Type 7	St. Louis, Watenhed		device are board on a world				
Permanent Workland S	Wetland	Fill	P	1,480 %	N/A	Type 7	St. Louis, Wytenhed		providing contra conques of Angles control is proven		referenses for important obs	riginitis weekend benchmen	
Sumporary Wedland S	Wetland	Remove/Disturb	Y	2,095 SF	N/A	Type 7	St. Louis, Watenhed				mandated by WCA, and quality in		
Wet Doch	Disk	ril/Move	P	1,402 5*	N/A	Well Dittels	St. Louis, Wytershed	SA TOTAL AND RECEIVED, AN			constituti is a newsellend, di	representative Cattails	
Permanent Fill In	Stream	Fill	P	18.57	N/A	Stream	St. Louis, Watenhed 45, 854 1	Westund Angust 10	Type of Impact (N), microson, or chard -	District Impact	Enisting Mant Community Transfell in instant transfel	Growy, Wager Brokenhard B. and Bush	
Spream Tip Rap below the	Stream	FIE	P	370 SF	N/A	Stream	St. Louis, Wytenhed 85, 850.1	Anti to prediend stret W. Ld.	Change only are per line risk	0.00 trans	Owner only war per the	Secretary Area F of Fragman	
Culvert	Stream	Pill	P	1,545 57	N/A	Stream	St. Louis, Wytershelf St. ENA 1	918	ne ne	687 081	1 From that Moutine 1 From the Manhage	1995, 21, 7 94%, 31, 7	
							#0, #0A L	9.1	/HE	0.80	1 First Mrt (Morling)	Hard, 21, 7	





• De minimis

- MS 103G.2241 (Aug. 1. 2024)
- Isanti County: >80%, outside shoreland
- "Type 6" wetland, non-perm flooded
- Max allowed impact: ¼ acre (10,890sf)

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