

MN Wetland Professional Certification Program

Program goal: Provide relevent, accessible and affordable technical and adminstrative 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 adminstrative 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.

 This page 13.

 $\underline{bwsr.state.mn.us/minnesota-wetland-professional-certification-program}$

2

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



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)

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



4

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)





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
- 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





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



7

TEP Academy Agenda

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

8

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-minneso



Scope of the Wetland Conservation Act SCOPE Regulates 420,0105 kiloti Praining All types All types Fill dish consult

11

What is an Impact?

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



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.





13

Wetland Fill

 Does <u>not</u> include posts for walkways, bridges, powerline poles, etc.





 Does <u>not</u> 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.



14

What is Excavation?

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



What is Drainage?

 $\underline{\textit{Any}}$ method for removing or diverting waters from a wetland

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



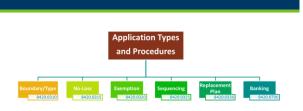
16

Key Roles Implementing the Wetland Conservation Act

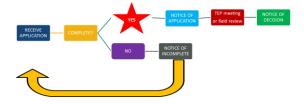


17

WCA Decision and Application Types



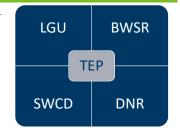
Typical WCA Application Process



19

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.



20

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



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



22

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)



23

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

Minnesota Wetland Conservation Act Technical Evaluation Panel Form		
This force can be seen to document IDF findings and recommended on white it is W.V.I. decisions, determinations, colorozated and pro-application reviews.		
Land Source of Mail: Clink here to more now. Causing Clink here to more have. Landbrane or Project Project Clink to to state her Appel Project Clink. Clink here to enter had. Project Clink or to not now. Project Clink or to now now. Project Clink or to now now.		
Payans of FEP Hodings The connectabilities - Check of that policy and assorbe The oppositions reviews - Chaptocrass Rober (proceed to MCC document Connect Connections Intellect Registering Roberts (Spalliny) (INCA Cetemorisation Request Connectic Spalling) (Class have to come tout, Beauthor (Class Area to come tout of the Chaptocrass Roberts Robe		
Meeting Type - chest of that apply and specify dates as applicable In this war. Meeting () Dates) Districts to a construct. I have been been proposed		
Fedings and Economistation Like here to other tool.		
CARACHMANGE ORANGE COST NOT NOT NOT.		
DMR Protected Winters and Thousand Protection Tome With the proposition that affect the pasts or select, the public velocity verticals or extincts or extends within the provision of protection cane? O for 12 to 7 sec. TMR reprocessors in a member of the TEP.		
Spinitres Outlin'SF Mondair Click hors to over ton. Agree will finding & Nacontemptions Cliffs. - 1 No.		
Signature: Date:		
□ SMS SP Menter: Cit Story Limite Ltd. Agree with Findings & Recommendations: □ Fell. □ No.		
Squarce (etc.) (
Species: Exec. Descript Maries: Clining to entertiest. Ages with findings & focus mediates: Clinic Clinic		

Description of each section of form

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

	etland Conservation Act
Technical E	relustion Penel Form
No farm can be exert to document TO finding foremisetion, enforcement and pro-applicati	and ecommendation related to W/A decision. or reviews.
Lead Ecomonate Unit Tell Services on Leadington or Popular Proposes, Del Service Popular Same - Lead Service on test Popular Sportion, Children Service and	Casety Call here is not not note by April Represedable(s). Ohe here is not no August So. If any Call here is not not.
Special String Decreased in the	OUT THE AND HE BRICH
☐ Pro-application review ☐ Application floo ☐ Local Government flood flooland flogiscome ☐ Ethic EppelPy) ☐ Exit have to order but. Searthin Chil have been for their	ere journal to WEA (because) on hings on Stylintry NEA Sonormouton Request.
Indigs and Recommendation (NA New Y 4104 Yest.	
CARadmunes specifies - Discharge and	
of female New ad September	- lan
M. Promoted Waters and Developed Protection Bill the assessment of the March State and a	
Mil Received Wysers and Shortland Research Shift the proportion desiry office 1000 public sente promited promotion one? (1 to 10 to Sentence	n Janu n. 196 outh part parties of parties who ha
Mil Processor Wysers and Short-level Processor Mill the proportion story which SMM public sent- processor processor come? (1 for 10 for Sentence	o Jave n., 1960 public authors surfacels or ausfacels within-the If por, 1960 representation is a number of the TD.
THE Processed Systems and Discontinuous Assessed Systems and Discontinuous Assessed	Time To public under settlereb or underholt uttlen file Fan, DM representation be manifer of the TD. Types with finding is Assessmentations. The
THE Processed Systems and Discontinuous Assessed Systems and Discontinuous Assessed	Types 1, joint public votors verticals or voticals within the 2 pm. 1986 requirementals it is member of the TIP. 1, year with friending it focus members of the Enter
The Processed Waters and Developed Amended State Programming with a find a policy sold processed amended processed amended amended processed amended a	The control of the co
Hill Processed Waters and Street Section 2018 for project Section 2018 for project Section 2018 for Discovered American 2018 (China Cilina Contraction Contract Contraction Contract Contraction Contract	The Control of the Co
Hill Processed Waters and Street Section 2018 for project Section 2018 for project Section 2018 for Discovered American 2018 (China Cilina Contraction Contract Contraction Contract Contraction Contract	Table T

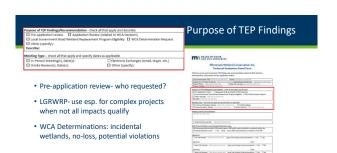
25

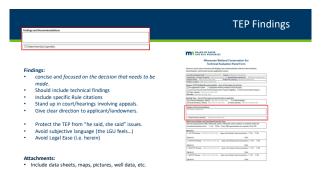
Minnesota Wetland Conservation Act	
Techi	nical Evaluation Panel Form
This form can be used to document TEP findings and recommendations related to WCA decisions.	
his form can be used to document T	EP findings and recommendations related to WCA decisions.
his form can be used to document T leterminations, enforcement and pr	
leterminations, enforcement and pr	e-application reviews.

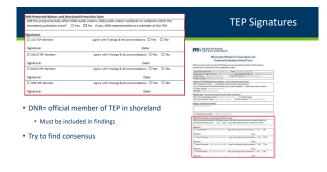
- Project name: Landowner & Nature of Project (i.e. Smith Driveway Exemption)
- Project number: LGU numbering (i.e. 2025-W023)
- Project location: be specific when location is important (i.e. shoreland side of Johnson residence on Round Lake)



26







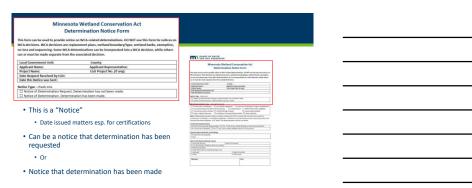
29

TEP recommendations

- TEP may recommend approval, approval with conditions or denial
- LGU <u>must</u> consider TEP findings and recommendations
- TEP cannot make findings without having at least one member make a site visit
- Findings and recommendations must be endorsed by a majority of members

What if the LGU	doesn't agree with TEP?		
 The LGU must provide detailed reasons rejecting the [TEP] finding of fact or 			
recommendation in its record of decision otherwise, the LGU has not sufficiently the TEP report.			
·	I'm not arguing,		
	I'm just explaining why I'm right.		
31			
Detailed reasons fo	or not following TEP		
	recommendation?		
"The Board felt that the TEP's recommendation to deny	the application was upreasonable		
and therefore we approve the application."	the application was unleasonable		
		_	
		-	
32			
Reasons fo	or not following TEP recommendation		
	recommendation		
"The Board finds that the TEP's recommendation on the availability of a reasonable and prudent alt	ternative alignment to the		
proposed road (impacting less wetland) did not gi decreased public safety associated with alternativ- alignments mentioned in the TEP's recommendati	e alignments. The alternative		
distances at road intersections according to nation the Board finds that there are no feasible and pru-	nal safety standards. Therefore,		
the application."			

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 Washington William Construction of Determinations include: Construction certification Certification of successful restoration Sequencing flexibility WCA Determination Form



WCA Determination Type - check all that apply			
□ Construction Certification □ Incomplete Application □ I local Govt. Road Repl. Program Qualification □ Successful Replacement/End of Monitoring □ Credit Deposit □ EniRIV/Preservation Eligibility □ Financial Assurance Release □ Partial Drainage Impacts □ Sequencing Flexibility □ Temp. Impacts Extension □ Certificate of Successful Restoration □ Other (specify):		_	
Note: All listed determination types are either made by the TEP or require TEP concurrence except for Construction Certification, Incomplete Application, Certificate of Successful Restoration (issued by SWCD) and Financial Assurance Releases. Use "other" for determinations that are not listed.	10 AND OF MATER AND TOO RESOURCES Minuscola William Consequence Art	-	
Common determinations:	The Acron can be confirmed and extension before Forms The Acron can be confirmed as of the confirmed and the confirmed acron can be confirmed as of the confirmed as of the confirmed acron can be confirmed as of the confirmed acron confir	_	
Certificate of Successful Restoration, Construction Certification	Unadiancement sink. Example Applied Super-Applied Super-Ap		
Note all determination types listed	□ Nation / Intermediac, colorenses to laws radio. Set Schemister Rep chief. differ application. □ seef son tour four four four final frequency dependency of the colorenses of the col] -	
Determinations are not decisions	Contraction Confliction, Interrupting Application, Confliction of Security Association Confliction (Interruption County by 1967) and Proceedings of the Association o	_	
	Description Metals of an and strings Description of a second of a	_	
	Spine China Con		

Technical Evaluation Panel		
TEP Has Concurred with Determination: Yes No: If yes.	Hard for drawn as all as described to	
TEP Concurrence Needed: Tes No; If yes, specify deadli		
Determination Materials and Findings		
☐ Attachment(s) (specify):		
Notes:		
Notice Distribution (Include name)		TO LOAD OF TAXABLE
☐ SWCD TEP Member: ☐ BWSR TEP Mem	ber:	AND DOL RESOURCES
☐ LGU TEP Member (if different than LGU contact):		Minnesota Wetland Conservation Act
□ DNR Representative:		Determination Notice Form
☐ Watershed District or Watershed Mgmt. Org:		The host are be used to provide a side on MCA advantable containing. No MCP was that have be noticed on MCA decision. MCA decision are implemented place, professionand place, professionand place, professionand place.
□ Applicant: □ Age	nt/Consultant	or less and separating lives WA determination up to immunosed below WA determined to the contract of the other contract determination of the contract of the c
□ Other: □ Arm	v Cores:	
	,,	Indicate and the second
Simature	Date	Date Regard Annihold by Lists Date Reference Annihold by Lists Date Reference and Reference Date Reference and Reference and Reference Date Reference and Referenc
		Marie de Sant Controller Sant de Sant Controller Sant de Sant Controller Sant Controller
TEP members: can be used as	notice to request concurrence	Standard Statistics (Spe. 14th of the Copy). Standard St
with determination		Section of Assessment Control of Section 2016 (Control Section 2016)
 Date may be specified 		Total fine from County States
Attach all relevent figures, ma	ps, emails, pictures, etc.	The control of the co
Sign and <u>Date</u>		Ngorine Calif
Cert of Successful Restoration		

Series of informal fact sheets providing practical information about implementing WCA WCA Topics of the Week WCA Topics of the Week

WCA Topics of the Week

38

WCA Forms and Guidance		
Series of forms and templates for implementation of WCA	WCA Forms	and Templates
implementation of WCA	E-	
Notice forms		WCA.Remail Reporting - Calendar Year 2003
TEP forms	Michael and Property Michael and Property and Michael and Property and Property and Michael and Property and Property and Property and Property and Michael and Property and Prop	Section Proves Section Proves
 WCA resolutions 	-	Management was the residence of the residence of the second of the secon
Wetland banking and easement for are found on separate page:	r	Sidden for the second section of the second section of the second section of the second section of the section
Wetland Bank Transaction Fore	<u>r</u>	The final content of the content of
Joint application form page		and .
		WCA Forms and Templates

TEP review example

Consider the following slides:

Think about what questions should be asked

What findings could TEP generate?



40

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



41

Findings:

- Reviewed previous de mimimis decision
- 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



TEP Procedures for Common Decisions

Items to Cover

Review Common Scenarios

TEP Forms/Resources

Documenting TEP Involvement

TEP Exercises



43

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?



44

Is this wetland delineation accurate? Scenario 1



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 Sulpa 2).
- Requires NOA and NOD (LGU).
- Technical Decision- at least one member of TEP should make a site visit – often full TEP



46

Welfard Officinate of the Control of

Wetland Delineation Review Checklist

Other Items

Offsite Hydrology

Scheduling and Access Approval

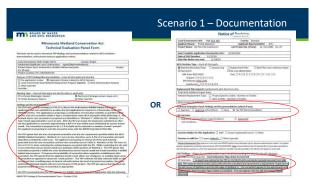
Flagged or GPS

Consultant attendance

Antecedent Conditions

47

Scenario 1- Is this wetland delineation accurate? TEP Findings: Noted hydric soils in DP 1 correlating with hydrophytic plant community/mow line; Saturation observed (Primary hydrology indicators at DP 2 Lacking primary or secondary hydrology indicators at DP 2 DP 2 reflects upland soil conditions — no hydric indicator Original boundary to far up landform Recommend moving boundary to dashed line



hope		nd Hydro	day from Aerial Inogery – Recording Form	
lireti	par .M.	Selecia.	TEP Findings:	
Date Strange Salara (4.3.1)	Date Used	Source Source		
522191	61-1991	F14	- TEP reviewed additional aerial photography from County	
729-3004	E1:2000	PSA	- TEP reviewed additional aerial photography from County	
521,2008 55,5008	15594	Contribute Fire	(2012, 2022) taken decine according to the conduct and	and the second
# 0.300#	622900	Great Early	(2012, 2022) taken during normal antecendent cond.	Followed
6:02009	8.4.2009	214.		
523,2000	352890	Smit lab		
#1200E	9 0 2990 30 0 2902	Tit.	- noted SS and small DO in Wetland 2 resulting in need for	est more
71230	710290	75A		
	193291	FIA.	onsite confirmation	
9252801 9392004	#392936	Courte Facts	onsite committation	
4520LT	452017	Small Set.	-	
5122917	5322917	Simple Early	<u></u>	
7282017	832957	PSA.	- TEP onsite 5/6/24 and confirmed geomorphic setting	
519200	5542908	Goods Said.	- TEP onsite 5/6/24 and commitmed geomorphic setting	
2282000	41,2800	Smith East.	Share and a consultance and the contract	
139.202	83.2029	75A	beyond currently proposed boundary	
419201	53200	FSA		
8/8/2002	Number of a	Grosse Earth		
_	Number of a			
	Percent with y			

50

Scenario 3 – 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.



51

Scenario 3 – Solar Panels/Arrays

BOARD OF WATER

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

trep is, 1831.

The discountry-moiste is suggested approach for methoding projects for each complision on whiteholding allowed plans passes on promptingly a shallow Projects for Service Project Types.

The property of the projects are activated for method complismed list online limit for all indicates a strength or and activated for the strength ordinary as a strength of the control of the strength ordinary as a strength of the strength ordinary as a strength of the strength ordinary as a strength or and strength ordinary as a strength ordinary as a strength or and extracted many as a strength or and activates of the strength ordinary as a strength ordinary as a strength ordinary as a strength or and extracted many as a strength ordinary as a stren

TEP Involvement/Resources

- Review Project/ID potential Impacts
- Review Available Guidance

52

Scenario 3 – 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



53

Scenario 3 – Solar Panels/Arrays

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.
- A Net on impact based on layout (design (appoint)



54

Scenario 4 - De minimis

De minimis Changes**

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

55

Scenario 4- 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

56

Scenario 4 – De minimis

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

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

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

Net Impacts

5250 sq ft of fill impacts to wetlands

Scenario 5 – Regulated Wetland under WCA?





58

Regulated Wetland?







59

Regulated Wetland?







Regulated Wetland?

TEP Review and Findings...

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



61



Exercise

TEP Charge

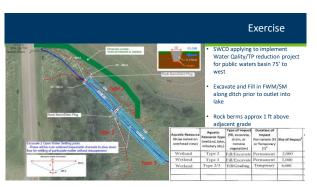
Review Submittal

Request Additional Info?

Develop Findings

Make Recommendation

62



Fxe	rcise: Regulated? No Loss/Exe/Repl?
TEP Findings/Recommendation	older megaliatear, me 2000, 2xe, mepm
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 agency)	
Ag Exemption, Item C	LAKE THE STATE OF
Recommend approval via Ag Exemp Subp. 2, C. & Require Certification statement submittal by SWCD (post TEP review)	

SWCD or TEP "certifying" projects for exemptions

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

	nd Conservation Act
Determination	on Notice Form
This form can be used to provide notice on WCA relat WCA decisions, WCA decisions are replacement plans.	
no loss and sequencing. Some WCA determinations o	
can or most be made resource from the associated de	
and the second s	
Local Government Unit: 5 and SWCD	County: Isanti
Applicant Name: Itent SWCD	Applicant Representative: TX
Project Name: Blue Lake TP reduction Fry	LOU Project No. Of anyly 200-22
Date Request Received by USU: 2/3/22	2
Date this Notice was Sent: 4/4/22	
Notice Type - check are	
Station of Determination Reposest, Determination h	as on hear made
30 hotice of Determination, Determination has been	
WCA Determination Type - check all that apply	ation Local Gout, Road Real Program Qualification
☐ Successful Replacement/End of Nonitoring ☐	
☐ Financial Assurance Release ☐ Partial Drainage In	
☐ Terry, Impects Extension ☐ Contricate of Suco	
Note: All Sisted determination types are either made in	
Construction Certification, Incomplete Application, Cer	
Financial Assurance Releases. Use "other" for determin	nations that are not listed.
Technical Eveluation Penel	
TEP Has Concurred with Determination: Si Fes S No.	
TEP Concurrence Needed: □ Yes □ No; If yes, speci	Ty deadline date for concurrence:
Determination Materials and Hadings	
22 Attachment(s) (specify): Application and 169 FCF	
	ts a net improvement to water quality within adjacent

65

Ag Exercise

*** Not complete language and language subject to change during Rule

TEP Goals

Review Submittal

Develop Findings

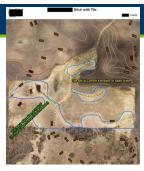
Make Recommendation

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?



67



Ag Exercise #2

TEP Goals

Review Submittal

Discuss Findings

Other Information Needed

Recommendations?

68

2024 WCA Statute Changes The New Agricultural Exemption

Replacement plan is not required for:

- $^{m}PC_{m}$
- impacts to wetlands on agricultural land labeled <u>prior converted (PC)</u> cropland and "Maintenance"

 impacts to wetlands resulting from <u>drainage maintenance</u> activities authorized by the Natural Resources Conservation Service, on areas labeled <u>farmed wetland</u>, farmed-wetland pasture, and wetland.

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>;

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.



70

Valid Final CWD?
• Enough data?

- Tile in existing Ditch?

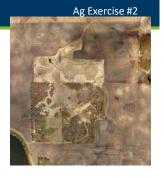
 Same depth throughout most
 Fill over top

New Outlet?

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

Ag Exemption Met? Critical Piece?

71



Ag Exercise #2

- 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.

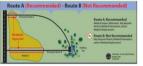




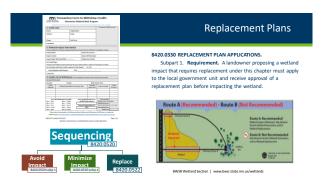
Replacement Plans

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.





74



Preapplication Meeting

- Prior to preparation of an application;
- Meet with the LGU/TEP, provide basic information of the project
- LGU/TEP inform the applicant of sequencing requirements and criteria to evaluate the replacement plan

	Project formation former: Described that projection 6,000,000
94	RT ONE: Applicant Information
	mentionity parameter miss an administrative parameter for the control of the cont
Agrica/Antonomismo Dys Miligantia: Rethrosper Page 10-40-02 Endlandes agricações	ration, shought for their
Administration (Investment) Sales (Investment) Francisco	Fam.graing
Appellow MA Date from the Maling America No October 10 400 Miles From Land Company (1997) American Proposition (1997) American Company (1997) American	Committee out States
PAR	T TWO: Site Location Information
	Armit 103.70.40
hr. dispays to 15 mpd acc to 1	disprindrique reprintratores un employe progress, you mus provietre, com agliante se de projection. This softwarder, representate allegés de la commission reacupilitation so deployees or se employees de la commission.
Maryon transmission of p	carrycontribution/properties/nd/netritie
PARTTH	REE: General Project/Site Information
Programming security and a programming supplying the first	The spinors, manylor described problems described in other appearance of the spinors of the spin
project accordate muchos address mentine aparticisations because	und, the project purpose as made, and principle for improvements as comparties. The the made and object of the proposed a Configurating is also principle or project, extending made though, the promotion and comparties and concept and the original and and measures of the projection and the and applies measure impact.
To the of the same authorized to destructions	the contact is the last decimation while the throughout their to young of blue

76

Application Contents

- Information necessary to be considered a complete application (a lot of this info can be pulled from the delineation report)
- For the impacted Wetland:
- 1. The amount of wetland impact (in sq ft or acres) by type
- 2. Minor/Major watershed, County, and Bank Service Area (BSA)
- 3. Soil survey of site, identify hydric soils
- 4. Hydrologic inlets and outlets, adjacent Public Waters (shoreland), floodplain

77

Application Contents Continued...

- Information pertaining to special considerations (8420.0515) (T & E, rare communities, cultural
- 6. List of known local, state, and federal permits required for the activity
- 7. Identify project purpose and need and alternatives considered





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.

79

79

Special Considerations (8420.0515)

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

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



80

Special Considerations Continued...

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



500	uoncina	. 0120	0E 20
SEU	uencing	. 0420.	.0320

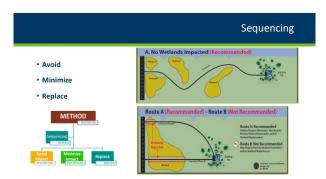
 LGU MUST NOT approve a wetland replacement plan unless the LGU finds the project complies with sequencing.

82

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

83



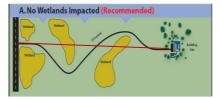
How does applicant demonstrate sequencing?

- 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.

85

Impact Avoidance

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



86

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

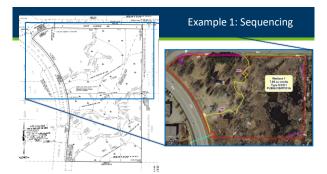
Eval	luating	Altern	atives	(continued
Lva	iuatilig	AILEII	iatives	(continueu

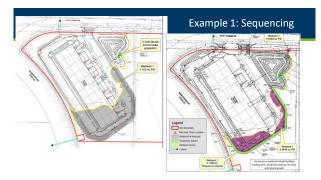
- LGU must consider (8420.0520 subp 3C(3)):
 - Could the size, configuration, or density of the project be modified to avoid wetlands?
 - Has the applicant made efforts to remove constraints (zoning restrictions, ordinance requirements, etc.) that are causing wetland impacts (i.e. request for variances,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

What if an avoidance alternative DOES exist?

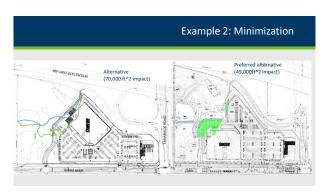
• If the LGU determines that a feasible and prudent alternative exist that avoids wetland impacts, it MUST DENY the replacement plan.

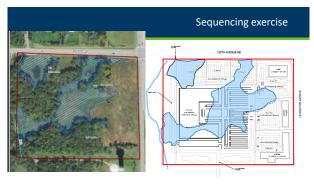
89











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 <u>must</u> 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.

95

Alternatives Analysis Continued...

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





Alternatives	Ana	IVSIS I	Cont	ınued.

• 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.)



97

What if an avoidance alternative does NOT exist?

- •LGU evaluates:
 - Minimization
 - Rectification
 - •Reduction/Elimination of impacts over time
 - Replacement

98

Impact Rectification

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



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





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.

101

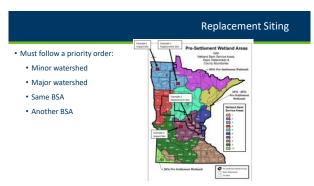
Sequencing – Replacement

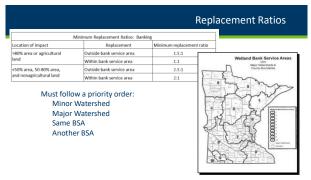
Final Review Step

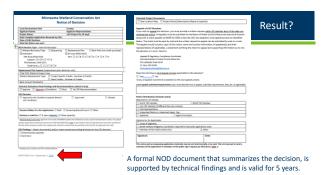
LGU must evaluate if unavoidable impacts will be adequately <u>replaced</u> AND if correctly <u>sited</u>.

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.)







Αŗ	plication to withdraw wetland credits
Credit Withdrawal Form Minnesota Wetland Bank Program	Fright Nature 4. Storyment Authorization and the inches inches inches (AS) Agency content hybromotics; In spray Section, the entire of purpose and entire and experience of the entire
Credit User Gapanatino (Imper) H and Gapanatino (Imper) H and Mare	Be sure to complete all
Exact Extens should receive with drawnit works after exact please include their entertailors (e.g., consultants, portners, etc.):	Sections! Special Sections Section Sec
2. Wetland impact information	• Form auto
5elon	calculates fees S. Gedit User Signature In propagation of the purposed order on the control due to the cont
inc. T. B. — Select— — Sel	
3. Credits to be Withdrawn find insure to: find insure to: find county find county	Miliginate date, since from the secondary from the art have end in the secondary from the art have end in one or set file as end for my name project. If the secondary from the seconda
Orest	 We account off not have a regative interest the credit are delicited.
- Selecti Selecti	Special Community Community (of Annalests St.) Special Community Community (of Annalests St.) Special Community Comm
Elici 5778	Monosita Bosel of Bibles and Self-Bibliomera \$20.000,000,000,000,000,000,000,000,000,0



	Guidance	
Wetland Bank Guidance and Information		
The second found in the second	Name and appears or import feet that are all more in the control of the control o	
	Westerd from Couldy and Ame States of finish Transport on Transport and American and American and Ministration. Intelligence of the American and Ministration and American and American American and American American American American American American American American American American American American American American American American American	

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

109

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



110

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

Why are Banks Preferred



112



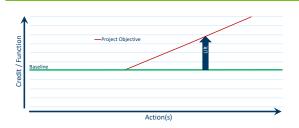


113



Action(s)

How are Credits Generated



115

How are Credits Generated

WCA Credit Actions Corp

Subp. 2 – Buffer E

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

116

What about the new Cultivated Field Credit (CFC)?

WCA Credit Actions Subp. 2 – Buffer 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 Any or None

Establishing a Wetland Bank



118

Draft Prospectus Prospectus Mitigation Plan Local Government BWSR

119

i be provide abul in the	rore Tagar	National Communication	or recommendation on Actificial (CE) 1007000 Sellow.				
			Proper Tape Effections C	hians	()+s	ected: P	
ALTERNA			Agentichematics	josk Fage		-	
_			Sufferior Spect B	on and this pe	6490	No.	
		The American					
						Octors	
						Star-Otes	
reas ju	-	Photo Street	Chicago and Chicago	-	-	-	
M Ember							
			Drover an item.				
			he he he.			Ratiga Bot	
- 1			General Statement				
	Phone (in	Later parenty	and a the "Image to become frequency of the State of the	And the "Program house impose" described in the Committee of Committee	Control Contro	and in the Higgs in time to particular of the Higgs in th	

Draft Prospectus

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

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

 ${\it Comments commensurate with information provided*}$

121



122

TEP Findings: - Reviewed historic aerials, soil survey, concept design plan - Aerial review found hydrology signatures - Mapped as hydric soils - Design proposes to restore natural hydrology as observed on aerials - Recommend advancing to nest phase YES- has potential but ...

LIS Acres Core		W		gation Propo	sal		
US Arrey Corps at Engineers - III. Plus Dates	•		Pros	spectus BWSR			
document provides establish vegetation smallerith and/or detail to percentario facility and recom- limiting and recom-	topeline in m and hyd other works discount put mont if pros-	charustion belogy: P and school life and a touck add	n, decomentation of hoperation of this in, engineering and gency vector. Force traced at the count	leal mitgation plan as	o placation, y negation a nati. This do arrangem, and	and pro-	ndegin to node to been profes most preside or attacher of cop
PROJECT NAME				Project Type		_	
Click to constitute				Describes D			
SPORTOR BASING	MICH			Agent information			
Sportson's East Section		_		Bulliotted Specificity		Tention	eric)
Clair to enter less				Chile to resident best	4.		
Company				Campany			
				Clinic teconder have	6.		
Grows hold was				Term, halirma			
Click to enter-tent				Click to order basis.			
Oly		in.	ZyCole	Die		Gutte	Dy Code
CSS to entertied			Click to entire				
Plant Primary)	Print (in)	- Park	Plute (1864)	Plane Printers)	Pure Jan	New Y	France (Selven)
CRX to enter				Oldicto-enter			
Cred bibbs.				Emplications.			
CRX M enterhal				Click to enter tex			
Operator's Selectioners							
Charles bear	Connect	der Dereck	Distance	erisalit bessere [John Street	orbe) -	
Character and Control				dhodaed to represent my behafter to agent in courses.			
PROBET LOCKTON	to productive o						
rissely			Courteen Stockerton)				
Choose an hum.			ick te entertoet.	Choose at Feet.			
				Seems No.	Transit		Aurya bu
N N	- 12						

Prospectus

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

124

Prospectus

General Considerations

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

125

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

 $Comments\ commensurate\ with\ information\ provided*$

PORSO RECEIVE							
903071# hms				Decretar D	YOUNGE LP	GCSKN PM	
				Apreliationstan			
				Authorized regard's Pro-	one are the of appro-	Pin)	
				Click to enter text.			
Gergany				Company			
Street Self-tree				Click to order best.			
				Click to enter heat			
Click to entertain		1 fam	12aGets	Oldsteinter text.	Lines	Linion	
199 Marketter		100	COS Transpor	Click to an east to at	120	19/3/12 (1997)	
The Print	(North Steel		Chair Cities	Post Prince	Plans Decordary	Boss Other	
CRX N enter				risk to enter			
Cond address			_	Logistino		_	
THE MARKETON				Click to enter text.			
				nerolitiesser 🗆			
TATIONAL OF ALL	THORISM	100)14	puted Engine is as	Botaltingreen	, and oge for, spo		
CAMBRIDE OF AL	THORISM	100)14	pulsed Engertis as	dication to represent my brightern spirit in mores.	, and oge for, spo		
TATIONAL OF ALL	THORISM	100)14	pulsed Engertis as	Botaltingreen	, and oge for, spo		
TANDADE OF ALL TRANSPORTED AND THE SERVICE AND	THOMSAN Applement	e Hein	pulsed if agent is as	dicelard to represent the personal resident of a resonant.	L and right five, upon	ACCIVATE OF THE	
TANDADE OF ALL TANDS SATISFIES SENSO SECURIORISMO SENSO SESSO SE SENSO SESSO SE SENSO SESSO SE SENSO SESSO SE SENSO SE SE	THOMSAN Applement	e Me Le	pulsed if agent is as	distinction representative specific in specific in specific in specific in specific in specific in second	L and right five, upon		
TANDADE OF AG TANDA SATIONAL Sendo, openingent Speaker of Senan Sendo Librarios Chacco on hore.	nacionali nacionali li Joshak	e Weig	pulsed if agent is as	Botada: represed in a bender i	L and olga for, upo	BECANGAN Choose on hor	
TANDADE OF ALL TANDS SATISFIES SENSO SECURIORISMO SENSO SESSO SE SENSO SESSO SE SENSO SESSO SE SENSO SESSO SE SENSO SE SE	nacionali nacionali li Joshak	e Weier	pulsed if agent is as	distinction representative specific in specific in specific in specific in specific in specific in second	L and right five, upon	BESSEAN	

Mitigation Plan

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

127

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

128

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
- Compile and evaluate all comments
- TEP findings and recommendation

Mitigation Plan Decision

- · Track 15.99 time limits, extensions needed
- Most Mitigation Plans will require some revision
- Make final decision in accordance with
- Clearly identify and retain approved Mitigation Plan
- When possible the WCA and Corps approved plans should be the same

AND SOIL RESOURCES
Minnesota Wetland Conservation Act
Notice of Decision
Los of forest more lists. (author Applicant bary Applicant bary Applicant bary Applicant bary (author Applicant
WCC Service Type - Check of that agric Official Security (Fig. Departing Departing Departing Departing Departing Departing (Fig. Departing (MAD) (MCC) Notice (MAD) (MCC) Departing (MAD) (MCC) New (MAD) (MCC) (MCC) Departing (MAD) (MCC) New (MAD) (MCC) (MCC) Departing (MAD) (MCC) New (MAD) (MCC) (MCC) Departing (MCC) (MCC) New (MCC) (MCC) (MCC) Departing (MCC) (MCC) New (MCC) (MCC) (MCC) New (MCC) (MCC) (MCC) (MCC) New (MCC) (MCC) (MCC) (MCC) (MCC) New (MCC) (MCC) (MCC) (MCC) (MCC) (MCC) (MCC) New (MCC) (
Replacement Has Imparts (replacement plan decisions until) Tops right Annieste (regard Annie Untered Deplacement Type: () Requisit Specific Credits () Best Credits Seet Account Processed.
Sectional Codystem Head Findings and Recommendations (attach Films) Segrece Approve a (Conditions Comp Re 10º Assessmendation
To Section Approved Center Center
Decision Milder for the Application 104F
Decision is valid for. The proof of the proof of the proof of SEM approving the proof of the p
to the glob property or state the replacement residency is belief that is provided to the LEC for the agreement in the LEC State that a state of the LEC State
Disserved () (purb):
Triby not problem Theoremistre.

130





Certification and Credit Releases

131

Easement Acquisition

BWSR Easement staff will lead this process

Typically initiated after Mitigation Plan approval

Often takes 6 months or more

No easement = no bank = no credits

No credits can be deposited until a perpetual conservation easement is granted to and accepted by the state



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

133

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
- $\bullet\,$ If in compliance, the initial credit release can be authorized

134

Somewhat Within But. Somewhat Within But.

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

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

Performance Standards

Common hydrology metrics

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

Metric	Metric Success Criteria Measured Criteria		Success Criteria Mes?	Comments
Hydrology - St	andards used for 2011	- 2016		
Devation	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	Formal hydrology monitoring not required for 2017. Surveys bound on
Duration	Majority of the growing season	Hydrology was within the desired range for the majority of the growing season.	Yes	direct site observations
regenerates			_	
Diversity	Minimum of five rative species	79 native species have been observed	Tes	Species diversity increased from 2016 to 2017
Composition	minimum 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	Reed canary grass is less than 5% coverage.
invasive species concentration	No single areas greater than one- guarter acre in size	Invasive species remain under control with no single area greater than one-quarter area in size	Yes	Slight increase of along citches, but sprayed again in

139

Performance Standards

Motion Sources Cliente Measured Coheste Charles Comment Comment Coheste Charles Comment Coheste Charles Comment Coheste Charles Coheste Charles Charle

Common vegetation metrics

- Interim 1 met for 2 consecutive seasons
- Interim 1 NNI relative cover ≥ 50%
- Final NNI relative cover ≥ 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

140

Monitoring Reports

Vegetation Monitoring for Compensatory Wetland Mitigation Sites



BOARD OF WATER AND SOIL RESOURCES





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)

142

142

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

143

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)

	Rehabilitation: CFC	16.0	2 - Stresh Met Noodow	330%	35,9090	2.4000	1,2000	1,3000	1.1000	4.0000
2	Reduced Worland Credit - CFC	4.9	2 - Fresh Met Mession	50%	04608	8,0675	0.0900	0.0900	0.0000	0.1125
3	Fahabilitation - CFC	14.9	1-Shiller Hash	330%	34,9000	2.2990	2.5880	2,5800	2,9800	3,7290
4	Reduced Worland Credit - CFC	6.5	3 - Sheller Hersk	50%	62508	60075	0.0100	0.0100	8.0600	0.8625
5	Fehabilitation - CFC	15.7	4 - Doop Marsh	300%	15,7000	2.2550	3.5480	3.5400	3.1400	3,5250
			2 - Steels Met Meadow	25%	42000	0.6300	0.8480	0.8400	0.6400	1.0500
6	Buffer - 2	46.0	2-Shiller Hard	25%	2,9408	0.5760	0.7680	0.7680	0.7900	0,9600
			4 - Stony March	1275	3.7908	6.1040	0.7900	0.7900	0.7930	0.8900
NA	Non-Credit (Excess Uplant Suffer)	20.8	NA.	0%	0.0000	6.0000	0.0000	0.0000	8.0000	0.000
NA	Non-Credit (FIR)	0.10	366	0%	0.0008	6.0000	0.0000	0.0000	4.0000	0.0000
NA	Nos Credit Existing Wattend	6.70	365	0%	0.0008	6.0000	0.8000	0.0000	8.0000	0.8000

Bank Plan – Monitoring

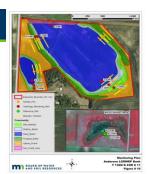
Monitoring (Duration typically 5-years):

Vegetation Monitoring Techniques/Plan

- a) Timed Meander
- b) Step-Point
- c) Sample-Plot
- d) FQA

Hydrology Monitoring Techniques/Plan

- a) Monitoring Wells / Stilling wells / staff gauge
- b) Reference Site



145

Monitoring Report

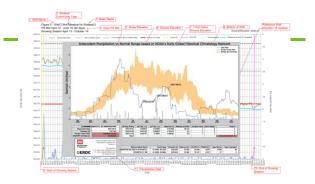
- · Project location map
- Description of performance standards
- Activities completed and planned
- Hydrology measurements & graphs
- Veg assessments & communities map
- Comparison of results to performance standards
- Color photographs (same points year to year)
- Other information specified from approved plan

146

US Army Corps Monitoring Report Template







Reviewing Monitoring Reports

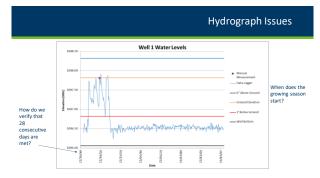
Metric	Success Criteria	Measured Criteria	Success Criteria Met?	Comments	
Hydrology - St	undards used for 2013	- 2016			
Devation	Water between 6 inches above and one foot below ground surface	Measured hydrology is between 6 inches above and one foot below ground surface.	Yes	Formal hydrology monitoring not required for 2017. Success Insued on	
Duration Majority of the growing season		Hydrology was within the desired range for the majority of the growing season.	Yes	direct site observations	
Vegetation					
Diversity	Minimum of five native species	79 native species have been observed	Tes	Species diversity increased from 2016 to 2017	
Composition	minimum two sedges and two granses	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	Reed canary gram 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	Sight increase of along ditches, but sprayed again in	

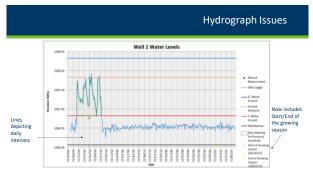
- Know performance standards (from MP)
- Interpret data to determine whether the site meets those standards
- If not, document with data what is not meeting standard
- Consult with TEP & Corps
- Recommend corrective actions

149

Common Issues in Monitoring Reports

- Insufficient figures/graphs
 - Data logger problems
- Performance standards not matching bank plan
 - Incorrect monitoring techniques
 - Data interpretation concerns





152

Summary

- \bullet Understand your role in reviewing bank applications $\underline{\text{and}}$ monitoring reports
- Understand performance standards
- Understand how to review a monitoring report
- Once the monitoring report is reviewed and is accurate, process deposit form
- ${\bf ^{\circ}}$ Be cognizant of MS 15.99 timelines for the Mitigation Plan \underline{and} credit deposit forms

/14/2025 15:



BOARD OF WATER

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



Local Road Program - Eligibility

- Cannot involve new roads or roads expansion for additional traffic capacity lanes in <u>anticipation</u> 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







157

What is a serviceable road?







158

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

<u>DNR</u>
• Reviews materials and signs Attachment E if within the shoreland zone of a Public Water

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



160

	Reviewing	Local Ro	ad Projects	
	Atabeant E		Appropriate Section Se	
	Local Systematic Read Wisland Replacement Program (CREATS) Highlithy Application Form for ISCA Regulated Impacts Only		MEDITION of the destinate facility will be required with the relation of a required to the destinate of the destinate of the control of the c	
	The profession that the professional part instant and networks the content of the		Notes	
	According to the compact the class and, does applicable to the committee of explose that CVIII, and committee the capital applicabilities of the committee of t		Technical Enduction Family Concurrence. The springerious of the control of an infection of specific and infection of the control of the cont	
	Notice that a part of the desired and the second of t		Militario fore	
	If most can person are always concentrated and concentration are not a series of the contentration of the conte		Species 1000 and and are the control of the second section of the second section of the section of the second section of the section of the second section of the	
	A description of the second of		SMS No Sendo Sent	
	the second terminal policy of the base of the second secon		4000	
	The Community of the Co		MOV Strikenin Sant	
	Section of Control of		Notice	
	80 M SS SS S		NO STATE OF THE PARTY OF THE PA	
	The second section of the			
	Minimizera de Reconstituto (11 de Acesta, de) Sapricio -		Minor magni, the boungloid Gr. Anada, 61 Pp. 170	
Annual meeting with Local Road Authority	Review & application with completed Attachment F	ther ts are le for tram		BWSR & Corps determine mitigation requirements per Federal Mitigation Rule

161

Common Errors

	PART FO	DUR: Aqı	uatic Res	ource Im	Project No pact ¹ Sun	nmary	nber:
If your proposed p impact in the table aerial photo, and/o Label each aquatic	below. Include a or drawing show	all anticipated in ing all of the aq	pacts, including uatic resources i	those expected in the project ar	to be temporary ea and the locat	Attach an over ion(s) of the pro	head view map, posed impacts.
Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Impact	Size of Impact ²	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
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/Trib	Fill	P	0.003	N/A	Type 1	County, 3
W-4	Wetland	Cut/Fill	P	0.26	N/A	Type 2	County, 3

162

		rs

		If your proposed p impact in the table aerial photo, and/i Label each aquatic	project involves below. Include a or drawing show	a direct or indirect or indire	ect impact to a pacts, including satic resources	n aquatic resour those expected in the project ar or letter and ider	pact ¹ Sun rce (wetland, lak to be temporary ea and the locati	e, tributary, etc Attach an overl ion(s) of the pro	.) identify each nead view map, posed impacts.	pr SA nu	clude the oject name and LP, CP, SP amber if oplicable
Single ID and Resource Type per line		Aquatic Resource ID (as noted on overhead view) W-1 W-2	Aquatic Resource Type (wetland, lake, tributary etc.) Wetland Wetland	Type of Impact (fill, excavate, drain, or remove vegetation) Fill Cut	Impact	Size of Impact ²	Overall Size of Aquatic Resource 3 N/A N/A	Existing Plant Community Type(s) in Impact Area ⁴ Type 3 Type 2	County, Mejor Watershed #, and Bank Service Area # of Impact Area ³ County, 3		Make sure to include the County, Watershed,
	•	W-3/Spring Creek W-4 Onle	Wetland/Trib Wetland y one type of in	Fill Cut/Fill +	P	0.003 0.26 Use correct area	N/A N/A	Type 1 Type 2	County, 3 County, 3		and BSA 163

Qualifying Project

CSAH IB is currently listed as a 2-lane nursi A Minor Anterial Expander Highway, with an east-west orientation. CSAH IB has a pointed speed limit of 55 mph and an Average Chairy Traffic (2017) count of a pproximately 5,300 (2017). Currently CSAH IB has a pointed speed limit of 55 mph and expander CSAH IB has a Specifically, the Andrea County Readway Self-yer Paul (by) 2011 Invested that love as few-say period there were seventeen crashes, of which fire were determined to be lane departure crashes, often associates with handequate readway shoulders. Based on this analysis hadols County Readway Self-emission days create a safer readway.

CSA	CSAH 18 Crash Data 2013-2015							
	ADT	Crash Rate*	Severity rate*	Difference				
MnDOT 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 Rates for CSAH 18 between CR 19 and CR 62 (2013 - 2015)	5,300	0.57	0.86	56% higher				

* Per million entering vehicle miles

164

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 crab-tested guardrall and guardrall end treatments. The purpose of the project is to reconstruct this segment of Cournly Mey 4 to meet State lad Standards (Minn. Bule 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 Indepter 8202 of State Ad Operations (serviced from MN Rules 2013, including amendments adopted through October 30, 2017), specifically 823.0920 Minimum Design Standards: Rural and Suburban Undivided; Projects and 824,09250 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 Trl 19 improvements.

	ving		

MnDOT's Road Design Manual (2000) also recommends turn and/or bypass lanes for rural undivided roadways with traffic volumes over 1,500.40 and speed limits above 45 mph. Current road condition compared with required and proposed are laid out in the table below.

	Existing	Required	Proposed
Lane Width (ft)	12	11-12	12
Shoulder Width			
(ft)	0-6	8	8
In-Slope	1:4	1:4	1:4

This project is proposed to improve CSAH 18 to meet today's State Aid Standards and improve safety along the corridor.

166

166

Class exercise - determine eligibility

The project proposed is a Shoulder Widening and Aggregate Shouldering project, 7.56 miles in length from CSAH 13 to 0.18 miles west of TH 9.

The purpose of the project is to improve roadway safety.

The project's need is to meet current design standards by improving deficiencies in roadway width, inslopes, culverts and drainage.

Construction will consist of earthwork for shoulder widening requiring cutting, filling, and widening shoulders. The existing shoulders will be excavated and replaced with granular borrow and class 5 material. Existing culverts will be replaced with new culverts. Mislopes and blackslopes will be fattered and disch bottoms graded for adequate faringae.

The purpose of this project is to improve safety and will affect 23 wetlands adjacent to the project. The proposed alignment follows the existing alignment, this will minimize large impact to wetlands. The plan views and cross section sheets that impact these areas are included in the appendix for this permit.

Approximately 1.19 acres of tree removal will take place during the winter season and be completed by 3-31-24.

The schedule for implementation of this project is beginning in spring of 2024 and completion in the fall of 2024.

167

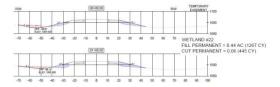
Class exercise - determine eligibility

Backer County is proposing to reconstruct County Highway 34 from County Highway 21 to 300th Street (4.36 miles). Currently there are 12 foot bituminous Lanes and 3 foot shoulders on each side of the roadway. We are proposing to widen the roadway to accommodate 12 foot bituminous lanes with 6 foot bindless and fistent but in sloges to 4.3 it spea sang the entire project to correct the safety hazards associated with the narrow shoulders and fisten the in-sloges to 4.3 it spea sang the entire project to correct the safety hazards associated with the narrow shoulders and steep in-slopes. All centerine culverts will be replaced and or extended and lined based on hydraulic studies. All approach culverts will be replaced with same type and size. This work is Scheduled for Summer/Fail of 2023.

This segment of County Highway 34 has an ADT of 1004 vehicles a day with large numbers of truck traffic due to agricultural and logging use in this rare and the County. This entire segment is insufficient in shoulder width, inslope ratio, clear zone and the culverts are over 60 years old and in need of replacement.

There is estimated to be 1.90 acres of tree clearing required with this project to ensure that the right of way and clear zone is free of hazards and to accommodate the required widening to allow for safety improvements. The trees to be cleared are a mix of deciduous and evergreen trees. Plan sheets showing areas of tree clearing are attached with areas highlighted for your review.

Class exercise – interpreting construction plans



169

Class exercise - interpreting construction plans

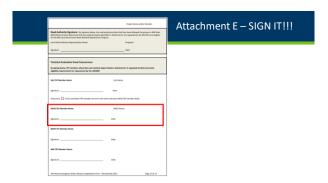


170

- Currently Serviceable Road - Does not meet safety standards - URA proposing to raise road, extend shoulders, fattern 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? - Who has jurisdiction be waived?

		W	/CA 8	k PW Im	pacts
• Summary					
• WCA					
Road impacts - eligible Trail impacts - not eligible	Each impact type should be Wetfand impact ID (same as noted in Part 4 and an overhead view)	Type of Impact (fil.	Size of impact (square feet or acres to 0.01)	on are three <u>separate</u> impact Existing Plant Community Type00 in impact Area! – Chappe only one per line	County, Major Watershed E, and Bank Service Anna 8 of Impact ²
Public Waters	2 3 4	Fill Fill Fill	892ft2 88ft2 1133ft2 1482ft2	Seasonally Flooded Basin Shallow mersh Shallow mersh Shallow Marsh	Murray, 51, 8 Murray, 51, 8 Murray, 51, 8 Murray, 51, 8
Public interest credits			1400		20.40.00
• USACE					
 Concurrence with LGRWRP on road impact 					
Required credit purchase for public waters impacts					

			A	ttac	hm	ent	E – .	Joint	Application
	If your proposed p impact in the table serial photo, and/ table each agustin	roject involves below Include a or drawing show	a direct or ind ill anticipated i ing all of the a	repacts, including quatic resources	ource Im	pact ¹ Sur or (wetland, lad to be temporary so and the local	io, tributary, etc . Attach an over sones of the pro	.) identify each head-view map, posed impacts.	
All impacts to aquatic resources	Aquetic Resource ID (as noted on overhead sinus)	Aquatic Resource Type (svetland, lake, tributary etc.)	Type of imper (fill, encayate drain, or remove sugestation)		Size of Impact	Overall Size of Aquatic Resource ¹	Existing Plant Convenity Type(i) in Impact Area ⁴	County, Major Watershed & and Bank Sensice Area II of Impact Area	
	W-1 W-2	Wetland	Fill Fill	TON	0.37	N/A N/A	Stallow March Stroph Well	County, 21, 3 County, 21, 3	
	W-2	Wetland	No.	7 (15)	0.02	NA	Meadow	County, 21, 3	
	W-3	Welland	NI	,	130 SF	N/A	Hoodplain Forest	County, 21, 3	
	W-4	Wetland	Cut	,	0.26	N/A	Fresh Wet Meadow	County, 21, 3	
	Spring Creek	Tributary	rid		75 (575)	N/A	N/A	County, 21, 5	
Only impacts from									
Part Four that	Wetland Impact ID (as noted on	Type of It (19), exce drain	wate, (s	or of Impact quare feet or		t Community		Anjor Watershed 4, k Service Area 8 of Impact ^d	
meet the LGRWRP	overhead view) W.1	Grade Edit	1 4	(137 mil 37	Shothe	v March	1 0	Impact*	-
criteria	W-3	61		130		in Forest		ounty, 21, 3	_
		-		-	-	_		-	=





Enforcement Procedure Overview





	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
178	}
	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
	- Hack the cases
470	
179	
	BWSR's Role in a violation
	• Rule interpretation
	• 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
	Assist in common minings
180	

a member of TEP Provide technical assistance in case which require DNR 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 Nilmesota'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

181

Minnesota Department of Natural Resources Wilstood (VICA) RESOURCE MINISTERIOR (CONTROLLATION) Line Controllation (Controllation) Line

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

Off-Site Review

Review available data prior to site visit

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



184

On-Site Investigation

LGU

SWCD

BWSR

DNR

TEP

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

185

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

On-site Investigation

- 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

- Write up findings right after the site visit

 Findings should include all information that was found on-site.
 Assume every fO 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





Drainage example

190



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

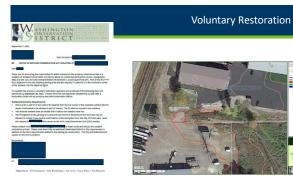
A combination of both orders can be used in certain situations

Voluntary Restoration

Voluntary or Formal?

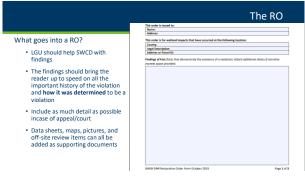
- Benefits to a voluntary restoration
 - Faster timeline when the landowner/responsible party is willing to cooperate
 - Less heavy handed of an approach
 - · Possibly easier restoration standard
- Downsides to voluntary restoration
 - Could delay overall restoration if the landowner/responsible party is unwilling
 - Good communication with DNR enforcement is needed

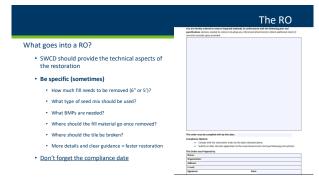
193



194

Restoration Order Gives the Landowner Options Restoration is priority Apply for replacement, exemption, no-loss Appeal-w/in 30 days + \$500 fee Court/Deed Restriction if no action is taken by landowner







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 recived 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 activitity didn't have a WCA application at this time. SVCD tried to set up several meetings with but he was having some medical procedure done. On 10 /17/2019 1 talked to and we agreeded to meet on site on 10/21/2019. When I arrived at the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a fiftend of the site I was meet by a site I was not the site I was meet by a site I was meet by I wa	
held to deep the second of the	
2	
g to the second	
199	
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) Will either have to remove all tile and the lift nump from the impacted welland agers or buy	
wetland credits from the Wetland Bank System from (BWSR). Board of Water Soil Resources.	
200	
Good RO	
Findings of Fact (facts that demonstrate the existence of a violation): Attach additional sheets if narrative exceeds space provided. S115/20-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 welland 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 hone. 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	

Good RO

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.

- All ditches dug must be restored back to pre-altered conditions. Ditches to be filled back to pre-altered conditions are identified on the attached "New Ditch Location" Map

 Ditches are to be filled level to land immediately adjacent to the ditch.

 Ditch fill will be compacted with the tracks of machine used to replace the fill.

 Oats will be spread over the disturbed ditch area to temporarily control erosion until the next cropping season.

 Contact Meeker SWCD 48 hours before restoration work will be completed.

202

Certificate of Successful Restoration

- Completed after restoration has been verified by SWCD
- Form should be completed by SWCD
- A certificate of satisfactory restoration or replacement may be issued with conditions that must be met in the future, such as for issues with wetland vegetation, weed control, inspections, monitoring, or hydrology.
- Failure to fully comply with any conditions that have been specified may result in the issuance of a new restoration or replacement order.
- · Be sure to send a signed copy to the CO/WREO



203

RO Non-Compliance

The landowner does not comply with the RO. Now what?

- · Enforcement will work with you!
 - · CO sends a letter
 - · CO makes a phone call
 - Deed restriction in some cases
 - Landowner served a criminal citation

Agrana modern	Division of Enforcement
	Region 2
	lii
	Comply with September State
19,570,60	
Management of Sept.	insists (MEX and it incrementable formers have a situation) are been and rest for the finishments of later and later required a state for house of later parts again play anyware-relation. Stational is a Central for Maker to comply (State to receive August to price and PSCS). It have included the finishments are stated to the finishment of the state of th
	dan Research in the Desiration Date: board passes the larve day. The ver- secution Order is (UNICS).
Floret year,	
Adent Haberon	
(1) Robert Sabertone Nato-Sensore Specie	ter (Intern of Interprete Region)
	offices lowers

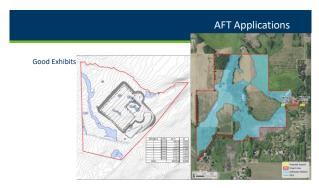


Review the application like any other 2 days per rule to submit an AFF but there is flexibility Keep track of your timelines (15.99) What is the application requesting? No Loss, Exemption, Replacement Keep an eye out for Poor enhibity/fligures – show what is needed Second avoidance alternative No Loss, Zeemption specifics

Purpose and need not well defined... or not at all

206

Poor Exhibits Poor Exhibits



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





