State of Wisconsin
Department of Natural Resources

dnr.wi.gov

Final Report

Targeted Runoff Management Grant Program and Urban Nonpoint Source and Storm Water Management Grant Program

Form 3400-189 (R 11/05)

Notice: This final report is authorized by ss. 281.65 and 281.66, Wis. Stats., and chs. NR 153 and NR 155, Wis. Adm. Code. Personally identifiable information collected will be used for program administration and may be made available to requesters as required under Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Instructions: The grant agreement requires grantees to submit a Final Report 60 days after the end date listed in the grant agreement. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR.

1. Grant Type

☐ Agricultural - Targeted Runoff Management Grant

☐ Urban - Targeted Runoff Management Grant

☒ Construction - Urban Nonpoint Source & Storm Water Management Grant

☐ Planning - Urban Nonpoint Source & Storm Water Management Grant

2. Grantee & Project Information

Project Name	Grant Number
Wehr Nature Center Drainage Channel-North	**USC-SE03-41000-04B**
Governmental Unit Name	Governmental Unit Type (city, village, town, etc.)
Milwaukee County	**County**
Watershed Name	Watershed Code
Root River	**SE03**
DNR Water Management Unit (River System) Name	Water Body Identification Code (WBIC) (if applicable)
Southeast	**-**

s. 303(d) Waterbody? ☐ Yes ☒ No

What pollutant(s) were addressed by the project?

sediment

For **each** project site location provide the following: (attach additional sheets if necessary)

Location:		A	B	C	D	E
Minor Civil Division Name		**Franklin**				
PLSS	Town	**5**				
	Range	**21**				
	Section	**5**				
	Quarter	**NE**				
	Quarter-Quarter	**SW**				
Latitude		**42°55'27"**				
Longitude		**88°2'16"**				
Property Owner(s)	Name	**Milwaukee County**				
	Mailing address	**2711 W. Wells St. #213 Milwaukee, WI 53208**				
Site address *(if different than mailing address)*		**9701 W. College Ave., Franklin, WI 53132**				

3. Summary of Results

A. Performance Standards and Prohibitions and Other Water Resources Management Priorities

For grants issued in calendar year 2006 or later, complete Tables A and B (following) consistent with the entries on your grant application. For grants issued prior to calendar year 2006, complete Tables A and B, *to the best of your knowledge*, consistent with the entries on your grant application.

Table A. Performance Standards and Prohibitions (per ch. NR 151, Wis. Adm. Code, effective October 1, 2002)

Performance Standard or Prohibition	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting T		
Manure Storage Facilities: New Construction/Alterations	Number of facilities		
	Number of animal units		
Manure Storage Facilities: Closure	Number of facilities		
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities		
	Number of animal units		
Clean Water Diversions in WQMA	Pollutant load reduction		
	Number of farms with diversions		
	Number animal units		
Nutrient Management on Agricultural Land	Acres planned		
Prohibition: Manure Storage Overflow	Number of facilities		
	Number of animal units		
Prohibition: Unconfined Manure Pile in WQMA	Number of farms		
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction		
	Number of facilities		
	Number of animal units		
Prohibition: Unlimited Livestock Access	Feet of bank protected		
	Number of farms		
Urban: 20-40% Reduction in Total Suspended Solids (TSS)	Pounds TSS reduced		
	% TSS reduction		

Table B. Other Water Resources Management Priorities

I. Agricultural Areas	Units of Measure	Quantity	Measurement Method Used
Buffers	Feet of bank protected		
	Number of farms		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
II. Developed Urban Areas	**Units of Measure**	**Quantity**	**Measurement Method Used**
Urban: 20-40% Reduction in TSS	Pounds TSS reduced		
	% TSS reduction		
Infiltration	% Pre-development stay-on volume		
	Cubic feet stay-on volume		
Peak flow discharge	Change in cubic feet per second		
Protective areas	Feet of bank protected		
Fueling & maintenance areas	Oily sheen presence		
Streambank	Tons of bank erosion reduced	**1,200**	**Visual Inspection**
	Feet of bank protected	**750**	**Visual Inspection/Count**
Other (specify)			
III. Planning	**Units of Measure**	**Quantity**	**Measurement Method Used**
Quantify how implementation of the planning project decreased storm water impacts on state waters (*i.e.*, storm water plan, I & E plan, *etc.*)	Municipalities planned for		
	Acres planned for		
Document/track progress made in implementing the planning product (*i.e.*, ordinance, utility district evaluation/formation, storm water management plan information & education, *etc.*)	Municipalities planned for		
	Acres planned for		
Other (specify)			

B. Project Results Narrative

1a. The north drainage ditch at the Wehr Nature Center was improperly sized for the amount of stormwater it actually received. As a result, bank erosion was creating a lot of sediment loss downstream. Gabion control structures reduced the peak flow discharge and lining the channels with rip rap reduced the streambank erosion.

1b. Success of the project was measured by post construction visual inspection per our grant application. The streambanks are no longer eroding and are no longer delivering excess sediment downstream. An additional benefit is that the health of aquatic and terrestrial plant and animal communities impacted by displaced soil is being restored. In addition, the Center received a Root Pike WIN grant to plant native trees and shrubs along the banks of the channels. This work is complete. The channel is visually inspected periodically by Wehr Nature Center personnel for signs of erosion and is monitored by volunteers biweekly for invasive species.

2. During the project signage was placed at the contruction site to describe each stage of the project. Signage was changed as the work progressed. In addition, at the Center itself was an exhibit with pictures and information on the project. The project was also featured in the Wehr Nature Center newsletters.

3. Milwaukee County does not have an erosion control ordinance. Because Milwaukee County is completely incorporated, Milwaukee County follows Stormwater and Erosion Control Ordinances of the applicable municipality. This is stated in Milwaukee County's Stormwater Permit effective December 15, 2006.

Milwaukee County is also commited through its Land & Water Resource Management Plan to improve water quality through the reduction of sediment and nutrient delivery to surface waters within Milwaukee County.

Milwaukee County is currntly developing a public education and participation effort as required by the County's stormwater permit.

4. Satisfaction of Notice Requirements (if applicable)

If cost sharing for this project was offered under a formal notice to achieve compliance with performance standards or prohibitions, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
				Satisfied?		
Notice Type	Issue Date	From (Name)	To (Name)	Yes	No	Date Letter Sent
NA				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

5. Summary of Project Challenges

Areas of surrounding development discharge storm runoff to the Wehr Nature Center ditches. These ditches were not sized properly for the amount of water they were receiving during heavy rainfalls. Designing a channel that could slow the water velocity and handle the peak runoff without overflowing the banks was the biggest challenge.

6. Additional Information about the Project (optional)

7. Planning Product (UNPS&SW - Planning Projects only)

☐ Check here if a printed copy of the planning product (e.g., plans, ordinances, analyses) was sent to your DNR Regional Nonpoint Source Coordinator.

Name of Document	Date(s) effective	Date Submitted to NPS Coordinator

8. Grantee Certification:

☒ Check here to certify that, to the best of your knowledge, the information contained in this report is correct and true.

Type or print Name and Title of Authorized Representative certifying here.

Greg High, P.E., Director, DTPW-A&E&ES

Signature of Authorized Representative	Date
	9/25/07