

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 Zoo Lake Evinrude Streambank Stabilization	Grant Number USC-MI03-41000-04D
Governmental Unit Name Milwaukee County	Governmental Unit Type (city, village, town, etc.) County
Watershed Name Menomonee River	Watershed Code MI03
DNR Water Management Unit (River System) Name Milwaukee River	Water Body Identification Code (WBIC) (if applicable) 11000

s. 303(d) Waterbody? Yes No

What pollutant(s) were addressed by the project?

sediment (TSS), nutrients

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

Location:		A	B	C	D	E
Minor Civil Division Name		Milwaukee				
PLSS	Town	7				
	Range	21				
	Section	32				
	Quarter	NW				
	Quarter-Quarter	NW				
Latitude		43°1'47"N				
Longitude		88°2'36"W				
Property Owner(s)	Name	Milwaukee County				
	Mailing address	2711 W. Wells St #213 Milwaukee, WI 53208				
Site address <i>(if different than mailing address)</i>		10001 W. Bluemound Rd. Milwaukee, WI 53226				

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	24/yr	NRCS Bank Erosion
	Feet of bank protected	525	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

1. The shoreline of Lake Evinrude was actively eroding introducing total suspended solids into the lake. The developed portion of Lake Evinrude's shoreline was protected with 525 lineal feet of fieldstone. Over 160 lineal feet of shoreline was restored with wetland and sedge meadow plantings and over 2100 square feet of prairie plantings were installed to provide a vegetative buffer. The buffer was designed to protect Lake Evinrude from contaminated and nutrient-rich run-off. A sprinkler system was installed to ensure plant establishment and survival.

Success of the project was evaluated through visual assessments as stated in the grant application. The streambank was actively eroding prior to the installation of the field stone, and it has been observed that the project has been successful in stopping the erosion. The installation of vegetative buffers was not part of the original application, but was added as a result of discussions with the Department. Visual assessment of the buffers show that they have been successfully established.

2. As part of the project a sign explaining the project and the purpose of the wetland plantings and their role in stormwater contaminant was erected at the site and was on display to over one million annual Zoo visitors.

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

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		
Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
NA				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

5. Summary of Project Challenges

In general, the project suffered no major challenges. Smaller challenges included protecting plantings from geese and other birds, and the establishment of plantings within the grant period. We would not have done anything differently.

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
Bidding Plans and Specifications	1/26/2005	1/28/2005
Revised Plan Sheets and Change Orders	9/29/05	9/29/05

8. Grantee Certification:

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

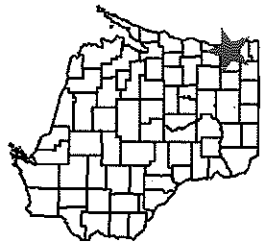
Type or print Name and Title of Authorized Representative certifying here.

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

Signature of Authorized Representative

Date

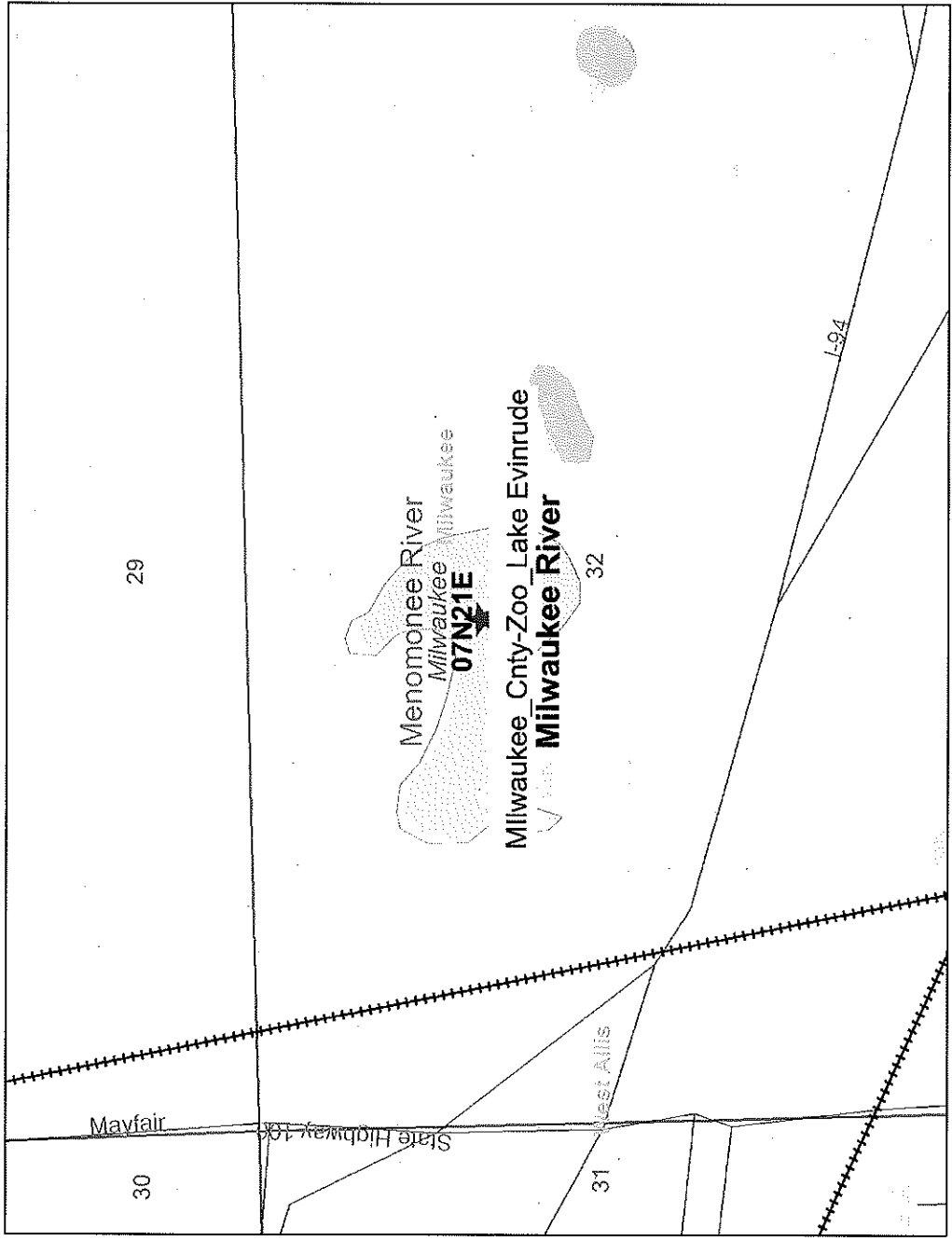
Milwaukee_Cnty_Zoo-Lake Evinrude_Aug 08, 2007



Legend

- Railroads
- Local Roads
- NR104 Lines
- Outstanding and Exceptional Waters
- Exceptional Outstanding
- PRF Sensitive Areas of Lakes
- ASNRI Outstanding and Exceptional Streams
- ORW
- ERW
- ASNRI Outstanding and Exceptional Lakes
- ERW
- ORW
- ASNRI Wild and Scenic Rivers
- ASNRI Trout Streams
- Class I Trout
- Class II Trout
- Class III Trout
- ASNRI Wild Rice Streams
- ASNRI Wild Rice Areas
- ASNRI Quality Wetland Streams
- ASNRI Quality Wetland Areas
- ASNRI NHI Streams
- ASNRI NHI Areas
- PNW Musky Streams

Scale: 1:3,959



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