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
Stormwater Planning Projects	**USP-UF01-70008-06**
Governmental Unit Name	Governmental Unit Type (city, village, town, etc.)
Town of Menasha	**Town**
Watershed Name	Watershed Code
Plum & Kankapot, Fox River - Appleton, Little Lake Butte des Morts, Lake Winnebago - North and West	**LF03-113, LF04-113, LF06-113, UF01-111**
DNR Water Management Unit (River System) Name	Water Body Identification Code (WBIC) (if applicable)
Lower Fox River Basin, Upper Fox River Basin	

s. 303(d) Waterbody? ☒ Yes ☐ No

What pollutant(s) were addressed by the project?

Total Suspended Solids (TSS) and Phosphorus

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

Location:		A	B	C	D	E
Minor Civil Division Name		**Menasha**	**Menasha**			
PLSS	Town	**20 N**	**20N**			
	Range	**17E**	**17E**			
	Section	**3-9,16-18,20-21**	**1-2,10-15**			
	Quarter					
	Quarter-Quarter					
Latitude		**44 deg. 13' 8" N**	**44 deg. 13' 5" N**			
Longitude		**88 deg. 28' 51" W**	**88 deg. 26' 4" W**			
Property Owner(s)	Name					
	Mailing address					
Site address *(if different than mailing address)*						

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	**543964**	**WinSLAMM v.9.2.1**
	% TSS reduction	**40**	**WinSLAMM v.9.2.1**
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		
	Feet of bank protected		
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	**1**	**Count**
	Acres planned for	**4670**	**Count**
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	**1**	**Count**
	Acres planned for	**4670**	**Count**
Other (specify)	**Planning for Future Development**	**5423**	**Count**

B. Project Results Narrative

The Town of Menasha obtained an Urban Nonpoint Source and Stormwater Planning (UNPS&SW) Grant from the WDNR to assist with the preparation of a Storm Water Management Plan. The purpose of the SWMP is to provide the Town with the long-term guidance necessary to comply with NR 216 stormwater regulations, and improve water quality to receiving waterbodies. Additionally, the Town is responsible for developing a SWMP and implementing six minimum control measures. The six minimum control measures are: Public Education and Outreach, Public Involvement and Participation, Illicit Discharge Detection & Elimination, Construction Site Pollutant Control, Post-Construction Site Storm Water Management, and Municipal Pollution Prevention.

In accordance with the Town of Menasha's Municipal Permit, the Town is required to achieve a 20% TSS reduction (271,982 lbs) by October 13, 2008 and a 40% TSS reduction (543,964 lbs) by March 10, 2013 within its developed urban area. The storm water quality analysis was prepared using the Source Loading and Management Model for Windows (WinSLAMM). The SLAMM analysis predicts runoff volumes and non-point source pollution loads based on information inputted into the program such as land use and soil type. Win SLAMM also calculates the amount of pollutant removal provided by Best Management Practices (BMPs). Best Management Practices include street sweeping, grass swales, wet ponds, biofiltraiton, and other BMPs.

Based on the modeling described, the Town of Menasha was achieving a 18.4 % TSS reduction, or 249,784 lbs of TSS being removed on an annual basis, as of October 1, 2004. In order for the Town of Menasha to comply with their Municipal permit, the Town needs to remove an additional 294,180 lbs by March 10, 2013. In accordance with WDNR, three alternatives were outlined for the Town to achieve 40% reductions. Public involvement, Capital Cost, Operation & Maintenance Cost, Land Acquisition, and obtaining WDNR permits are a few factors that play a role in determining the Towns ultimate plan. The Town of Menasha also planned for future development within the study area, or areas that were undeveloped as of October 1, 2004. As part of this analysis, three alternatives were created and outlined within the SWMP.

The Town of Menasha completed the following items under the UNPS&SW Grant:

The Town Board approved a Nutrient Management plan for Town of Menasha properties.

The Towns entire drainage system is mapped. The drainage system maps were included with the Storm Water Management Plan which was submitted to the Wisconsin Department of Natural Resources regional office in Green Bay.

A Citizen Advisory Board (CAB) was convened and met on several occasions to involve itself in matters relating to public involvement and education. The CAB did rank order topics which should be addressed as part of an information and education campaign.

The Town has developed the following components of the plan:

Public Education and Outreach

Public Involvement & Participation

Illicit Discharge Detection & Elimination

Construction Site Pollution Control

Post Construction Storm Water Management

Municipal Pollution Prevention

Work on all phases of the Storm Water Planning Grant was completed on December 31, 2007.

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
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

5. Summary of Project Challenges

During January of 2006, McMahon Associates identified some concerns with the street sweeping routine within SLAMM. DNR Staff in Madison resoved the problems, but delayed the modeling process.

Also during the planning, DNR Staff in Madison worked on the NEWSC construction site erosion control ordinance and NEWSC post-construction storm water management ordinance. The Town of Menasha utilized these NEWSC model ordinances and made adjustments as necessary to meet the needs of the Town.

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
Stormwater Management Plan for the Town of Menasha	**10/13/2008**	**December 31, 2007**

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.

Signature of Authorized Representative	Date