

**Final Report**  
**Targeted Runoff Management Grant Program and Urban Nonpoint Source and Storm Water Management Grant Program**

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 <b>Stormwater Management Plan and Ordinance Development</b>	Grant Number <b>USP-UR12-14292-02</b>
Governmental Unit Name <b>City of Waupun</b>	Governmental Unit Type (city, village, town, etc.) <b>city</b>
Watershed Name <b>Upper Rock River</b>	Watershed Code <b>UR12</b>
DNR Water Management Unit (River System) Name <b>Rock River</b>	Water Body Identification Code (WBIC) (if applicable)

s. 303(d) Waterbody?  Yes  No **Horicon Marsh & Rock River - downstream from city**

What pollutant(s) were addressed by the project?

**Particulate forms of urban stormwater pollutants: sediment, nutrients, heavy metals, and bacteria.**

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

Location:		A	B	C	D	E
Minor Civil Division Name						
PLSS	Town	<b>13 &amp; 14N</b>				
	Range	<b>15E</b>				
	Section	<b>all</b>				
	Quarter					
	Quarter-Quarter					
Latitude						
Longitude						
Property Owner(s)	Name	<b>NA</b>				
	Mailing address	<b>NA</b>				
Site address <i>(if different than mailing address)</i>						

**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	<b>114</b>	<b>WinSLAMM</b>
	% TSS reduction	<b>43</b>	<b>WinSLAMM</b>
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) <b>TSS reduction based on city-wide stormwater mgmt. recommendations</b>			
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project decreased storm water impacts on state waters ( <i>i.e.</i> , storm water plan, I & E plan, <i>etc.</i> )	Municipalities planned for	<b>1</b>	<b>WinSLAMM</b>
	Acres planned for	<b>2065</b>	
Document/track progress made in implementing the planning product ( <i>i.e.</i> , ordinance, utility district evaluation/formation, storm water management plan information & education, <i>etc.</i> )	Municipalities planned for	<b>1</b>	
	Acres planned for	<b>2065</b>	
Other (specify)			

B. Project Results Narrative

As a result of the stormwater management plan, the City identified a program for stormwater pollution management and flood management. During the plan development process, the city met regularly with a task force to provide information and to receive comment on the plan. The task force membership included elected city staff from the Planning Department; and Department of Public Work; elected officials; a developer; and the WDNR. During the planning process the following items were accomplished:

- The city's stormwater conveyance system (storm sewers, channels, detention facilities, culverts, road ditches, etc.) were mapped and located on a GIS based system.
- The city's drainage boundaries to the conveyance system were delineated and placed on a GIS based system
- The urban stormwater pollution model (WinSLAMM) was used to evaluate the city's "base" conditions.
- Alternative non-structural and structural BMPs were evaluated with WinSLAMM to estimate the best approach for achieving a reduction of the annual TSS load by 20% and 40%.
- Potential structural BMPs to achieve the TSS reduction goals were located and cost estimates were conducted.
- The storm sewer system's capacity was analyzed with XPSWMM and potential locations with capacity problems were located.
- Recommendations for alleviating storm sewer capacity problems were developed.
- Draft construction erosion control and post-construction stormwater management ordinances (meeting the requirements of NR 151) were developed. These ordinances are being adopted by the city.
- An implementation plan for carrying out the recommendations was developed.

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

The major technical challenge for this project was working with data sources from two counties (Fond du Lac and Dodge). The data sources did not use the same coordinate system, codes, or same level of information. The high degree of city staff cooperation with the consultant greatly improved the usefulness of the resulting analysis and recommendations.

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 <b>City of Waupun Stormwater Management Plan</b>	Date(s) effective <b>December, 2003</b>	Date Submitted to NPS Coordinator <b>)</b>
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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.

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Signature of Authorized Representative	Date
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