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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

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2. Grantee & Project Information

Project Name Stormwater Planning Efforts	Grant Number USP-LR06-13281-05
Governmental Unit Name Stoughton	Governmental Unit Type (city, village, town, etc.) City
Watershed Name Yahara River and Lake Kegonsa	Watershed Code LR06
DNR Water Management Unit (River System) Name LOWER ROCK	Water Body Identification Code (WBIC) (if applicable) LR

BUREAU OF WATER QUALITY MONITORING

s. 303(d) Waterbody? Yes No

What pollutant(s) were addressed by the project?

Total suspended solids (TSS).

[verify 303(d) IDs 545 and 546. No TMDL has been prepared for these.]

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

Location:		A	B	C	D	E
Minor Civil Division Name		City of Stoughton	City of Stoughton			
PLSS	Town	5N	6N			
	Range	11E	11E			
	Section	4, 5, 6, 7, 8, 9, 10	31, 32			
	Quarter					
	Quarter-Quarter					
Latitude		42d 55.012' N	42d 55.012' N			
Longitude		89d 13.448' W	89d 13.448' 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		
	% 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		
	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>i.e.</i> , storm water plan, I & E plan, <i>etc.</i>)	Municipalities planned for	1	Count
	Acres planned for	2273	Count
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	1	Count
	Acres planned for	2273	Count
Other (specify)			

B. Project Results Narrative

Update Stormwater Master Plan (Stormwater Planning): The grant requirements have been or are being addressed without the formation of a stand-alone Stormwater Master Plan. Due to the number of requirements and to the various stages of completion, the narrative of the Final Report for the UNPS grant serves as the Stormwater Master Plan for the City of Stoughton at the time of grant completion (December, 2007). The grant and therefore the Final Report address many issues not typically contained in a Stormwater Master Plans such as ordinance changes, illicit discharge detection system, a nutrient management plan for municipal properties, a public information and education program, a permit tracking system, and a stormwater management utility (or sufficient ordinances to fund stormwater improvements). A stand-alone Stormwater Master Plan that addresses primarily water quality and water quantity BMPs, stormwater planning studies and updated Stormwater GIS and mapping is appropriate in the future. Several reports were developed as part of the Stormwater Planning effort of this grant and are described in the following paragraphs of this section of the report.

Stormwater Master Plan Amendment: This report was completed in April 2007. It addresses stormwater management in the Southwest Planned Neighborhood and South Planned Neighborhood in the City. It is being used as a tool to assist a proposed development in the area and may be revised in the future.

Virgin Lake Area Rehabilitation Report: This report was completed in draft form in October 2007 and issued to the City for review. It addresses stormwater management in the Virgin Lake/Paradise Pond area on the northwest side of the City. The information in the report was presented to the public at a Public Works meeting on November 20, 2007. City and Public comments will be used to revise the report. The report will be used as a tool to guide planning and rehabilitation efforts in the Virgin Lake area.

Estimate Total Suspended Solids and Total Phosphorus: The "Stormwater Management Plan and Total Suspended Solids Reduction Plan" for the City of Stoughton was completed in May 2006. SLAMM 9.0 was the model used. The City is achieving 31.2% TSS reduction (229,649 pounds) annually with current facilities. By March 2013, the City will need to implement stormwater BMPs to achieve at least 40% TSS reduction. The City is achieving 21.5% Phosphorus reduction (435 pounds).

Water quality and water quantity BMPs: The "Stormwater Management Plan and Total Suspended Solids Reduction Plan" for the City of Stoughton (May 2006) contains recommended water quality and water quantity BMPs.

Ordinance Updates: The City revised its Stormwater and Erosion Control ordinances to comply with NR 151. The DNR and Dane County reviewed and approved the ordinance changes, which were adopted and published in May 2006. A draft Illicit Discharge Ordinance was sent to the City in January, 2007. It is currently in the process of being reviewed by committee and City Council prior to adoption. The City will continue to work on ordinances during 2008 and subsequent years to complete planned revisions.

Pollution Prevention Information & Education Program for the Public: The City has arranged to join the MAMSWaP I&E program to satisfy this requirement. Note: During the grant period, educational materials describing public and private stormwater management practices were developed and distributed via the City's newsletter and web page.

Nutrient Management Plan for Municipal-Owned Properties: The City has in place nutrient management/pollution prevention procedures that control the dispersal of nutrients on all City property. The City has a Street Department garage for storage and maintenance of parks and street equipment. Road salt and sand is stored in a treated wood shed on the adjacent parking lot. The shed can hold 400 tons of salt, but only 250 tons are typically on hand in the Winter. Little to no salt is stored there in the non-winter months. The State inspects the facility annually. Cleanup of any spilled or excess salt and sand is accomplished with sweeping. There is a small amount of herbicide is kept in a tool room in the garage, but the City only uses a small amount of herbicide annually, generally for guard rail areas and ball field fence lines. No fertilizer is used by the City. Oil tanks and antifreeze is located in the garage maintenance bay. Oil dry is on hand in case of spills. A spill notification sheet has been sent to the City for posting in City garage facilities. The City's insurance company inspects yearly for State compliance (DOC), fire-proofing, etc. City Ordinances cover control of leaves and yard waste, and the City issues notices/citations to violators.

Implement a Stormwater Permit Tracking System (includes monitoring number of permits issued, enforcement actions, and complaints): Currently, the City has Dane County contracted to review and inspect erosion control and some stormwater plans on behalf of the City. The City keeps records of all permits and enforcement actions, but like the County, does not actively track this activity. The City is reviewing an example report from a GIS permit tracking system. The City will begin to track stormwater permits through the GIS they already have in place or through another program or method.

Modernize the City's Storm Water Mapping System: Maps have been converted to digital format (ArcGIS). The GIS is up to date and is revised as construction projects are completed. The latest revision was in May 2007 during storm sewer system improvement at the driveway under Kenilworth Court.

Create a Storm Water Management Utility: A SWMU fee structure was estimated and a feasibility report of the SWMP was evaluated with the City Council. After a public hearing in September of 2006, it was determined that an SWMU is not feasible for the City of Stoughton as a result of legal conflicts with existing stormwater management developer fees.

NOTE: This report is subject to review by the City, the Public, and the DNR.

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
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Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
				<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 primary challenges were completing a SWMU which was complicated by an existing stormwater managemen fee. This fee charges developers for all future City costs for stormwater management. Also adopting number new or revised stormwater ordinances was impractical for the City.

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 Master Plan Amendment (April, 2007)	Apr. 2007 (Draft)	Not Finalized
Virgin Lake Area Rehabilitation Report (October, 2007)	Oct. 2007 (Draft)	Not Finalized
Stormwater Management Plan and Total Suspended Solids Reduction Plan (May, 2006)	May 2006	2005-2006

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.

Rodney Scheel Director of Planning & Development

Signature of Authorized Representative

Rodney Scheel

Date

3-14-08