

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 Utility Feasibility Study	Grant Number USP-SE03-41136-04
Governmental Unit Name Hales Corners	Governmental Unit Type (city, village, town, etc.) Village
Watershed Name Root River	Watershed Code SE03
DNR Water Management Unit (River System) Name Root-Pike	Water Body Identification Code (WBIC) (if applicable) 2900

s. 303(d) Waterbody? Yes No

What pollutant(s) were addressed by the project?

TSS

For each project site location provide the following: (attach additional sheets if necessary) N/A Not Applicable

Location:		A	B	C	D	E
Minor Civil Division Name		Village of Hales Corners	Villag of Hales Corners			
PLSS	Town	T5N	T6N			
	Range	RZIE	RZIE			
	Section	5	29,30,31,32,33			
	Quarter	NW	NE,NW,SW,SE			
	Quarter-Quarter	N/A	N/A			
Latitude						
Longitude						
Property Owner(s)	Name					
	Mailing address					
Site address (if different than mailing address)		N/A	N/A			

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	N/A		
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			N/A

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)		N/A	
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)		N/A	
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	2048	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	2048	Count
Other (specify)			

N/A - not applicable to this planning grant

B. Project Results Narrative

See Attachment

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	
N/A				<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

See Attachment

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 Stormwater Utility Feasibility Report	Date(s) effective Jan. 2007	Date Submitted to NPS Coordinator Feb. 2007
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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.

Michael J. Martin, Director of Public Works

Signature of Authorized Representative

Date

m. j. martin

JAN. 18, 2007

ATTACHMENT

Final Report

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

Project Name: Storm Water Utility Feasibility Study
Grant Number: USP-SE03-41136-04
Governmental Unit: Village of Hales Corners

3 B. Project Results Narrative

Stormwater management has historically developed around a reactive system designed to respond to flooding. As stormwater programs have matured, the emphasis was modified to include the operation and maintenance of those systems, and new capital improvement projects to proactively respond to flood potential for new development and in areas of existing development. More recently, Federal and State regulations, such as the Wisconsin Department of Natural Resources (WDNR) NR-216 and NR-151 rules, are now shifting the focus to water quality. The Village, as part of the Root River group, received a stormwater discharge permit for the State, obligating it to numerous required activities.

Currently the Village of Hales Corners' stormwater management program consists of activities for engineering, infrastructure repair and maintenance, ditch maintenance, street sweeping, equipment maintenance/rentals, capital improvements, and other related projects. The Village spent approximately \$135,000 in both 2005 and 2006 for stormwater related activities. As a result of new regulations, aging systems, and shifting needs, stormwater costs are increasing and annual expenditures could grow to \$200,000 or more.

The Village of Hales Corners hired Earth Tech to research the feasibility of a Storm Water Utility as an alternate funding source for compliance activities and future needs of the Village's storm water infrastructure. The scope of the study was to investigate the current and future stormwater management program and funding needs, outline a general approach to developing a stormwater utility, and identify the information required for implementation.

The final study report provides supporting documentation for the need to adequately fund a comprehensive stormwater program to meet the flood management, water quality, and permitting needs of the Village. It also reviews the elements of a potential program, including: details of how a stormwater utility works, potential rate structure, and required steps for implementation. The report is intended to be an educational document that presents the utility development process, provides a framework for implementation, and should be a strong decision-making tool in deciding if a utility is right for the Village.

The report is in the final stages of completion and is scheduled for delivery to WDNR in February of 2007 and to be presented before a joint meeting of the Board of Trustees and the Public Works Commission on April 30, 2007.

5. Summary of Project Challenges

One of the challenges of this project was the conversion of existing data into a digital format. Hardcopy maps were transformed into Computer Aided Drafting (CAD) and Geographical Information System (GIS) file formats for ease of manipulation, editing, reproduction, and analysis. Another challenge was accurately estimating the future impacts of NR-216, NR-151, and other storm water related needs on the Village's operating budget. An extensive needs assessment was performed to determine realistic costs. Developing a fair and equitable utility rate was a third challenge. This included examining potential credit policies for customers based on the level of service provided. The last challenge is if the Village of Hales Corners decides a utility is the best course of action, acceptance by the public is crucial and therefore a solid public education and outreach program becomes pivotal.