

Wisconsin Department of Natural Resources  
 Bureau of Watershed Management (WT/3)  
 101 S. Webster St.  
 Madison, WI 53703  
 PO Box 7921  
 Madison, WI 53707-7921

**Final Report Form 3400-189** (rev. 7/30/09)

- Targeted Runoff Management Grant Program (ch. NR 153)
- Notice of Discharge Program (ch. NR 153)
- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

**NOTICE:** This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

**INSTRUCTIONS:** Your grant agreement requires you to submit a Final Report with your final reimbursement request. 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 as described in the instructions.

**1. GRANT TYPE** Check the one that applies.

<input type="checkbox"/> Targeted Runoff Management Grant – Agricultural	<input type="checkbox"/> Targeted Runoff Management Grant – Urban
<input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Construction	<input checked="" type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Planning
<input type="checkbox"/> Notice of Discharge Grant	

**2. PROJECT NAME & LOCATION**

2.1. Project Name: <b>Storm Water Utility Feasibility Study</b>	2.2. Grant Number: <b>USP-FX06-67153-08</b>	
2.3. Governmental Unit Name: <b>Village of Mukwonago</b>	2.4. Primary Watershed Name: <b>Mukwonago River</b>	2.5. Watershed Code: <b>FX06</b>

**NOTE FOR SECTION 2.6 (which follows):**

Section 2.6. includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.

2.6. Site Location(s) →	A	B	C	D	E
Name of Cost-Share Recipient or Governmental Unit	—				
Cost-Share Agreement Number (Agricultural only)	—				
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	071200060203				
Nearest Surface Receiving Water Affected					
Name:	Mukwonago River				
Waterbody Identification Code(s) (WBIC):	765500				
Nearest Impaired Water Affected					
Name:	Fox River				
Waterbody Identification Code(s) (WBIC):	742500				
Pollutants Reduced	Sed. + phos.				
Impairments/Impacts Addressed	urban runoff				

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Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates					
Town	4N, 5N				
Range	18E				
Section	4N: 1,2,3,11,12 5N: 22-27,35,36				
Quarter	All				
Quarter-Quarter	All				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	42 deg 51' 30" N				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	88 deg 21' 20" W				

3. SUMMARY OF RESULTS.			
Table A: Agricultural Projects - Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities			
A.1. Management Measures	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting "T"	acres	
Manure Storage Facilities: New Construction/Alterations	Number of facilities	facilities	
	Number of animal units	animal units	
Manure Storage Facilities: Closure	Number of facilities	facilities	
Manure Storage Facilities: Falling/Leaking Facilities	Number of facilities	facilities	
	Number of animal units	animal units	
Clean Water Diversions in WQMA	Pollutant load reduction	lbs.	
	Number of farms with diversions	farms	
	Number animal units	animal units	
Nutrient Management on Agricultural Land	Acres planned	acres	
Prohibition: Manure Storage Overflow	Number of farms	farms	
	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	lbs.	
	Number of facilities	facilities	
	Number of animal units	animal units	
Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
	Number of farms	farms	

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Table A: Agricultural Projects (continued)			
A.2: Other Management Measures	Units of Measure	Quantity	Measurement Method Used
Streambank & Shoreline Protection	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
	Pollutant load reduction (if method available)		

Table B: Urban Construction Projects Serving Developed Areas			
B.1: Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities	TSS reduced	lbs.	
	TSS reduction	%	
B.2: Other Management Measures			
20-40% Reduction in TSS for non-NR 216 communities	TSS reduced	lbs.	
	TSS reduction	%	
Infiltration	Pre-development stay-on volume	%	
	Stay-on volume	ft <sup>3</sup> /year	
Peak flow discharge for 2 year/24 hour design storm	Change in cubic feet per second for design year	ft <sup>3</sup> /sec	
Protective areas	Bank protected	feet	
Fueling & maintenance areas	Oily sheen presence reduced	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Streambank & Shoreline Protection	Bank erosion reduced	tons	
	Bank protected	feet	
Other:	Pollutant load reduction (if method available)		
	Units (use feet, acres or number as applicable)		

Table C: Urban Planning Projects			
C.1. Governmental unit(s) involved (list by name):			
Village of Mukwonago			
C.2. Estimate total acres covered by the			
Existing Developed Urban Areas	New Development	Total Acres	

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planning product:	2,610 acres	2,551 acres	5,161 acre
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<b>C.3. Products developed</b> (check all below that apply)	<b>Identify Documents by Name (if applicable)</b>
<input type="checkbox"/> Storm Water Plan	
<input type="checkbox"/> Construction or Erosion Ordinances	
<input type="checkbox"/> Post-construction Storm Water Ordinances	
<input type="checkbox"/> Other Types of Storm Water Quality Ordinances	
<input checked="" type="checkbox"/> Financing Methods: Identified and evaluated	Village of Mukwonago Storm Water Utility Feasibility Study
<input type="checkbox"/> Financing Methods: developed or implemented	
<input type="checkbox"/> I & E Plan	
<input type="checkbox"/> I & E Implementation Activities	
<input type="checkbox"/> Other:	
<b>C.4. Identify the Storm Water goals addressed</b> (check all that apply)	
<input type="checkbox"/> Reduce TSS	<b>Comments:</b> The Utility Feasibility Study does not directly address TSS, infiltration, peak flows, etc. Indirectly the storm water utility feasibility addresses each of the storm water goals from the Storm Water Management Plan by identifying and developing a method for financing the increasing storm water expenses projected in the future to meet the NR 216 permit regulations.
<input type="checkbox"/> Maintain infiltration	
<input type="checkbox"/> Control Peak Flow	
<input type="checkbox"/> Protective Areas	
<input type="checkbox"/> Control of Fueling & Maintenance Areas	
<input type="checkbox"/> Remove Illicit Discharges	
<input checked="" type="checkbox"/> Other:	

**4. Satisfaction of Notice Requirements.** If cost-sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Chs. NR 151 or 243 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"/>	

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**5. Additional Information.** (Space will expand to fit your text.)

The Storm Water Utility Feasibility Study was completed with the assistance of an advisory committee consisting of business owners, residents, a representative of the school district, elected officials and staff. The Study was officially accepted by the Village Board on February 2, 2010 with approval to continue into the implementation phase. Since February 2<sup>nd</sup> the parcel database was finalized and there were two open houses, a Public Hearing, and significant informational materials provided to Village residents. The Village Board decided to hold the adoption of the Ordinance creating the utility in order to discuss the potential utility with the Committee of the Whole. In the interim Village Staff and consultants with Municipal Economics & Planning have continued discussion of methodologies that would be the most fair, equitable, and easy to administer with current Village Staff based on concerns raised by Village residents and property owners at the Public Hearing and open houses.

**6. Summary of Project Challenges.** (Space will expand to fit your text.)

The biggest challenge was creating a user charge mechanism that is the most fair, equitable, and defensible while being able to implement and continue operating the utility with the current level of Village staff. The most fair utility would measure storm water runoff from every individual property similar to a water or sewer utility. However, in order to operate the utility with the current level of Village staff individual measurements are not feasible.

A second challenge was educating residents of the importance and need for the improvements to the storm water system for the NR 216 requirements in addition to developing a user charge methodology that is fair and equitable for every property owner in the Village.

**7. Grantee Certification.**

Checking here  certifies that, to the best of your knowledge, the information contained in this report is correct.

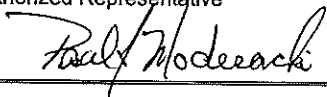
Name of Authorized Representative (type or print) ↓

Paul J. Moderacki

Title of Authorized Representative (type or print) ↓

Village Administrator/Clerk-Treasurer

Signature of Authorized Representative



Date

August 10, 2010

**8. For Departmental Use Only.**

Regional NPS Coordinator – Please complete the following:

8.A. Check here  if you have received the following from the project sponsor:

- one (1) printed, signed, original Final Report + attachments
- one (1) electronic version of Final Report

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

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8.B. Comments about this project:	
8.C. Type or print Name of Regional NPS Coordinator →	Maureen McBroom
8.D. Signature of Regional NPS Coordinator	8.E. Date
<i>Maureen McBroom</i>	9/10/10