

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:** Your grant agreement requires you 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. The DNR prefers that Final Reports be submitted in electronic format. If, however, printed copies of Final Reports are submitted, please submit three (3) complete originals to your regional Nonpoint Coordinator.

**1. Grant Type – Please check one.**

- Targeted Runoff Management Grant – Agricultural       Targeted Runoff Management Grant – Urban
- Urban Nonpoint Source & Storm Water Management Grant – Construction       Urban Nonpoint Source & Storm Water Management Grant – Planning

**2. Grantee & Project Information**

Project Name <b>Beaver Creek Stabilization</b>	Grant Number <b>USC-MI02-40107-08B</b>
Governmental Unit Name <b>Village of Brown Deer, WI</b>	Primary Watershed Name and Watershed Code <b>Milwaukee River South M102-050</b>
Nearest Water Body Name	Nearest Water Body Identification Code (WBIC) (if applicable)
DNR Water Management Unit (River System) Name <b>Milwaukee River</b>	s. 303 (d) Listed Waterbody? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No.

What pollutant(s) were addressed by the project (e.g., nitrogen, phosphorus, sediment, thermal control, etc.)?

**Reduction in TSS**

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

Location:		A	B	C	D	E
Minor Civil Division Name (City, Township, Village, etc.)		<b>Brown Deer, Village of</b>				
PLSS	Town	<b>T8N</b>				
	Range	<b>R21E</b>				
	Section	<b>3</b>				
	Quarter	<b>SE</b>				
	Quarter-Quarter	<b>SE</b>				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer, SWDV)		<b>043 10' 45"</b>				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)		<b>087 59' 11"</b>				
Property Owner(s)	Name	<b>Brown Deer, Village of</b>				
	Mailing address	<b>4800 W. Green Brook Dr. Brown Deer, WI 53223</b>				

Site address (Not mailing address)	Approximately 6200 block W. Brown Deer Rd.  Brown Deer, WI 53223				
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**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.

**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	
Other (specify)	Feet of bank protected		
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	2350	
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		
	Acres planned for		
Document/track progress made in implementing the	Municipalities planned for		

planning product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Acres planned for		
Other (specify)			

**B. Project Results Narrative**

This reach of Beaver Creek was a concrete-lined ditch that, as a result of this grant, removed the concrete, replaced it with natural stone and native plantings and re-aligned to meander within a publicly owned parcel. Cooperation with 2 commercial and 1 multi-family adjacent land owners was excellent throughout construction.

Plantings have taken hold prior to the onset of winter, and should remain in place during the next spring run off. The Village is holding a substantial contract retainer over the winter in the event that plants will need to be replaced in the spring.

**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	
				<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 challenge was to establish plantings and keep in place the turf reinforcement mat (TRM) during periods of flashy high flow following rain events in late summer. Fortunately enough of the growing season was left to replant and establish vegetation and re-anchor the TRM as the likelihood of heavy rain subsided.

**6. Additional Information about the Project (optional)**

With this project, approximately 1/3 of the concrete liner has been removed from Beaver Creek and naturalized. The Village does intend to eventually remove all of the concrete liner, however, a timetable and a budget have not been established for this work.

**7. Final Product(s) – All Projects**

**A. Construction Projects**

A.1. Checking here indicates that a printed copy of project plans and specifications was sent to your DNR Regional Nonpoint Source Coordinator.

A.2. Checking here indicates that photo-documentation of the project's construction is attached.

**B. Planning Projects**

B.1. Checking here indicates that a printed copy of the planning product (e.g., plans, ordinances, analyses) was sent to your DNR Regional Nonpoint Source Coordinator.

B.2. Checking here indicates that the Regional Nonpoint Source Coordinator has approved the final Planning Product(s).

B.3. Checking here indicates that your governmental unit has adopted the final Planning Product(s).

Name of Planning Document(s)	Date(s) effective	Date Submitted to NPS Coordinator
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**8. Grantee Certification:**

Checking here certifies 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.

**James Buske, Engineering & GIS Services Manager**

Signature of Authorized Representative 	Date 11/23/10
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**9 FOR DEPARTMENTAL USE ONLY**

REGIONAL NONPOINT COORDINATOR -- Please complete the following:

- Checking here indicates that you received either planning or construction plans and specifications from the project sponsor, as appropriate. Attach a copy of the approval.
- Checking here indicates that you approved the final construction. Attach a copy of the final construction approval.
- Checking here indicates that you have approved the final Planning Product(s).
- Check here if two (2) signed, original copies of the Final Report and attachments have been sent to Runoff Management Section Grants Coordinator. Note: Regional Nonpoint Source Coordinator may retain one (1) copy of the signed, original Final Report.

Type or print Name of Regional Nonpoint Coordinator

Signature of Regional Nonpoint Coordinator

Date