

NOTICE: This document is required under s. 281.65 & s. 281.66, Wis. Stats., and chs. NR 153, 154, and 155, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Urban Nonpoint Source & Storm Water and Targeted Runoff Management Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type		
<input checked="" type="radio"/> Urban Nonpoint Source Construction <input type="radio"/> TRM Small-scale Urban TMDL		
Project & Location Information		
Governmental Unit Name		Grant Number
City of Middleton		USC-LR10-13255-15B
Project Name		
2017 Pheasant Branch Streambank Restoration and Habitat Enhancement Project		
County	Watershed Name	12-Digit HUC
Dane	Yahara River	070900020603
Project Contact Name	Phone Number	E-mail Address
Aaron Steber (consultant)	(708) 516-3317	aaron.steber@cardno.com
<input type="checkbox"/> For a project with multiple site locations, an aerial photo map is attached with each site location labeled.		

Site Location - 1		Additional sites may be added to the project by clicking the [+ Loc] button.						
Site Name				Nearest Receiving Waterbody				
Pheasant Branch North of Century Ave				Lake Mendota				
Quarter/Quarter	Quarter	Section	Township	Range	E / W	Latitude	Longitude	
SE	SW	1	07	08	E	43.10507	-89.49302	

Summary of Results - 1		Additional BMPs may be added to this site by clicking the [+] button.						
Best Management Practice Installed	Surface Area (sq. ft.)	Drainage Area (Acres)	Load Reduction				Total Construction Cost	
			TSS %	TSS (tons/yr)	P (lbs/yr)	N (lbs/yr)		
- Shoreline Protected - NR154.04(31))	4,000	13,300		65	60	180	\$45,487	
- Shore Hab. Restored - NR154.04(29))	15,400	13,300		301	200	460	\$175,326	

Site Location Attachment - 1	
Check the box if the required information for the site is attached:	
<input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s)	<input checked="" type="checkbox"/> Load reduction modeling documents
<input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled	<input type="checkbox"/> Water quality monitoring results/summary, if applicable

Site Information - 1
<i>Narrative space will expand to fit.</i>
In order to fit surface area into the options for best management practices installed in the summary of results above we used shoreline protection for 200 linear feet of stone toe protection plus the bank grading area as well as streambank erosion estimates from BANCS and STEPL models completed in the stone toe locations (see final report). For shoreline habitat restored we used the 770 linear feet of rootwad composites installed plus the bank grading area and streambank erosion estimates from BANCS and STEPL models completed in rootwad composite locations (see final report). Additionally 12 debris jams were removed during this project which were not used in the load reduction calculations.
<input checked="" type="checkbox"/> DNR may use this site as a success story to meet state and federal reporting needs.

+ Loc

Additional Project Information
<i>Narrative space will expand to fit.</i>
With the water quality and ecological connection to Pheasant Branch Marsh and Lake Mendota, the WDNR and the general public has expressed great interest in reducing sediment loading to Pheasant Branch. Since completion of this project and previous stabilization work, the City of Middleton has utilized Pheasant Branch streambank stabilization

projects as a demonstration for a multitude of interested parties including WisDOT, City of Madison, WDNR, and others. Completion of this project will expand the demonstration of these techniques and, when combined with other stormwater measures being implemented by the City, create a go-to destination for field demonstration of water resource and ecological enhancements. Many of the eroded stream banks and valley slopes throughout the creek corridor have trees that are near or already have collapsed. This project incorporates this woody material into the bank stabilization design to re-use it on site. Rootwad composite revetments were installed consisting of a combination of hardwood rootwads (the intact lower trunk and rootmass of mature hardwood trees) and stone. These structures provide a biological armoring alternative that aids in dissipating energy of near-bank streamflows. Small spaces found in the rootwad composites provide cover for small fish, as well as reptiles and small mammals found in the riparian habitat. Long term stabilization is maintained through bank grading to increase flood flow capacity as well as the incorporation of surface vegetation roots with the stone rip rap.

Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form and submit it electronically to the DNR Regional Nonpoint Source Coordinator.
 I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments is correct and true.

Name of Authorized Government Official	Title of Authorized Government Official	Date
Matt Amundson	Director of Public Lands, Recreation & Forestry	02/22/2018

For DNR Use Only

Received complete reports with all attachments. Practices implemented were consistent with the grant agreement.

Comments about this project:

Name of Nonpoint Source Coordinator	Date

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grants Coordinator. Keep a printed copy for the Region file.