

Notice: This final report is authorized by ss. 281.65 and 281.66, Wls. Stats., and chs. NR 153 and NR 155, Wls. 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, Wls. 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

**2. Grantee & Project Information**

Project Name <b>Wingra Creek Parkway - Phase I Improvements</b>	Grant Number <b>USC-LR08-13251-05</b>
Governmental Unit Name <b>City of Madison</b>	Governmental Unit Type (city, village, town, etc.) <b>City</b>
Watershed Name <b>Yahara/Monona</b>	Watershed Code <b>LR08</b>
DNR Water Management Unit (River System) Name <b>Murphy Creek</b>	Water Body Identification Code (WBIC) (if applicable) <b>804700</b>
s. 303(d) Waterbody? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

What pollutant(s) were addressed by the project?

**Sediment, Phosphorus**

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

Location		A	B	C	D	E
Minor Civil Division Name		<b>Madison</b>				
PLSS	Town	<b>07 North</b>				
	Range	<b>09 East</b>				
	Section	<b>26</b>				
	Quarter	<b>SE</b>				
	Quarter-Quarter	<b>SW</b>				
Latitude		<b>43.048790</b>				
Longitude		<b>-89.392005</b>				
Property Owner(s)	Name	<b>City of Madison</b>				
	Mailing address	<b>210 Martin Luther King Jr Blvd</b>				
Site address (if different than mailing address)		<b>None</b>				

**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	0	
Manure Storage Facilities: New Construction/Alterations	Number of facilities	0	
	Number of animal units	0	
Manure Storage Facilities: Closure	Number of facilities	0	
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	0	
	Number of animal units	0	
Clean Water Diversions in WQMA	Pollutant load reduction	0	
	Number of farms with diversions	0	
	Number animal units	0	
Nutrient Management on Agricultural Land	Acres planned	0	
Prohibition: Manure Storage Overflow	Number of facilities	0	
	Number of animal units	0	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	0	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	0	
	Number of facilities	0	
	Number of animal units	0	
Prohibition: Unlimited Livestock Access	Feet of bank protected	0	
	Number of farms	0	
Urban: 20-40% Reduction in Total Suspended Solids (TSS)	Pounds TSS reduced	423	SLAMM 9.2.2
	% TSS reduction	20	SLAMM 9.2.2

**Table B. Other Water Resources Management Priorities**

I. Agricultural Areas	Units of Measure	Quantity	Measurement Method Used
Buffers	Feet of bank protected	0	
	Number of farms	0	
Streambank	Tons of bank erosion reduced	0	
	Feet of bank protected	0	
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	0	
	Cubic feet stay-on volume	0	
Peak flow discharge	Change in cubic feet per second	0	
Protective areas	Feet of bank protected	0	
Fueling & maintenance areas	Oil sheen presence	0	
Streambank	Tons of bank erosion reduced	18	NRCS direct volume method
	Feet of bank protected	1610	
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 planning product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Municipalities planned for		
	Acres planned for		
Other (specify)			

**B. Project Results Narrative**

**Cost of Project**

The total cost of the project was approximately \$470,000, which is about \$292 per linear foot of shoreline.

**Practices Installed**

The plans for the Wingra Creek Parkway Phase I improvements had to be revised due to an inability to come to an agreement with the railroad company. The portion of the project that fell within the railroad right of way was left out of the final plans altogether. Both the littoral shelf and the ford crossing, therefore, had to be left out of the final design.

Bank stabilization techniques used included: (vegetated geogrid), which uses native vegetation in geotextile-encapsulated soil lifts to stabilize steep slopes; vegetated boulder revetment, which is native vegetation growing out from between boulders; sack gabions were added in some places to stabilize the toe of the slope; finally, live stakes of red-osier dogwood and buttonbush shrubs to provide soil stabilization with their roots. The amount of erosion reduced from streambank work is less than what was calculated initially due to having to stay outside of railroad corridor. 2005 calculation was 24.7 tons/year.

**Results Expected/Obtained**

The bank stabilization methods are expected to minimize erosion. The native vegetation is expected to grow in such that it hides some of the "harder" treatments (rocks, sack gabions), giving the banks a softer look.

**Maintenance Strategies**

The banks will be mowed several times a year during establishment to minimize weeds and volunteer trees/shrubs. Maintenance will then likely be reduced to once or twice per year.

**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**

Coordinating with Union Pacific Railroad proved to be one of the most challenging aspects of the project. Legal discussions between them and the City required us to request an extension of our grant period. In the end, we were unable to come to an agreement, and so had to redraw the plans without the railroad corridor.

The project began with a neighborhood workshop, which was very open-ended, very broad look at the issues surrounding the creek, where the public could give input on whatever they felt was most important. This was positive because it gave us some direction, but may have caused some problems because that many individuals would never agree on what they wanted to see done with the creek. It may have been a smoother process if we had sketched out a proposal or two, and requested comments on that. This is how we will likely proceed with the next phase of the project.

**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

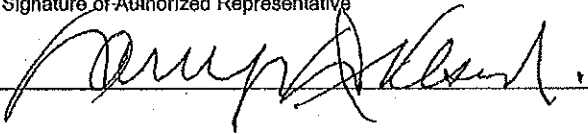
**6. Grantee Certification:**

Check here to certify that, to the best of your knowledge, the information contained in this report is correct and true.

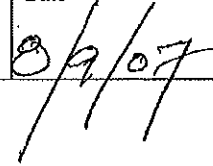
Type or print Name and Title of Authorized Representative certifying here.

Larry D. Nelson, P.E.

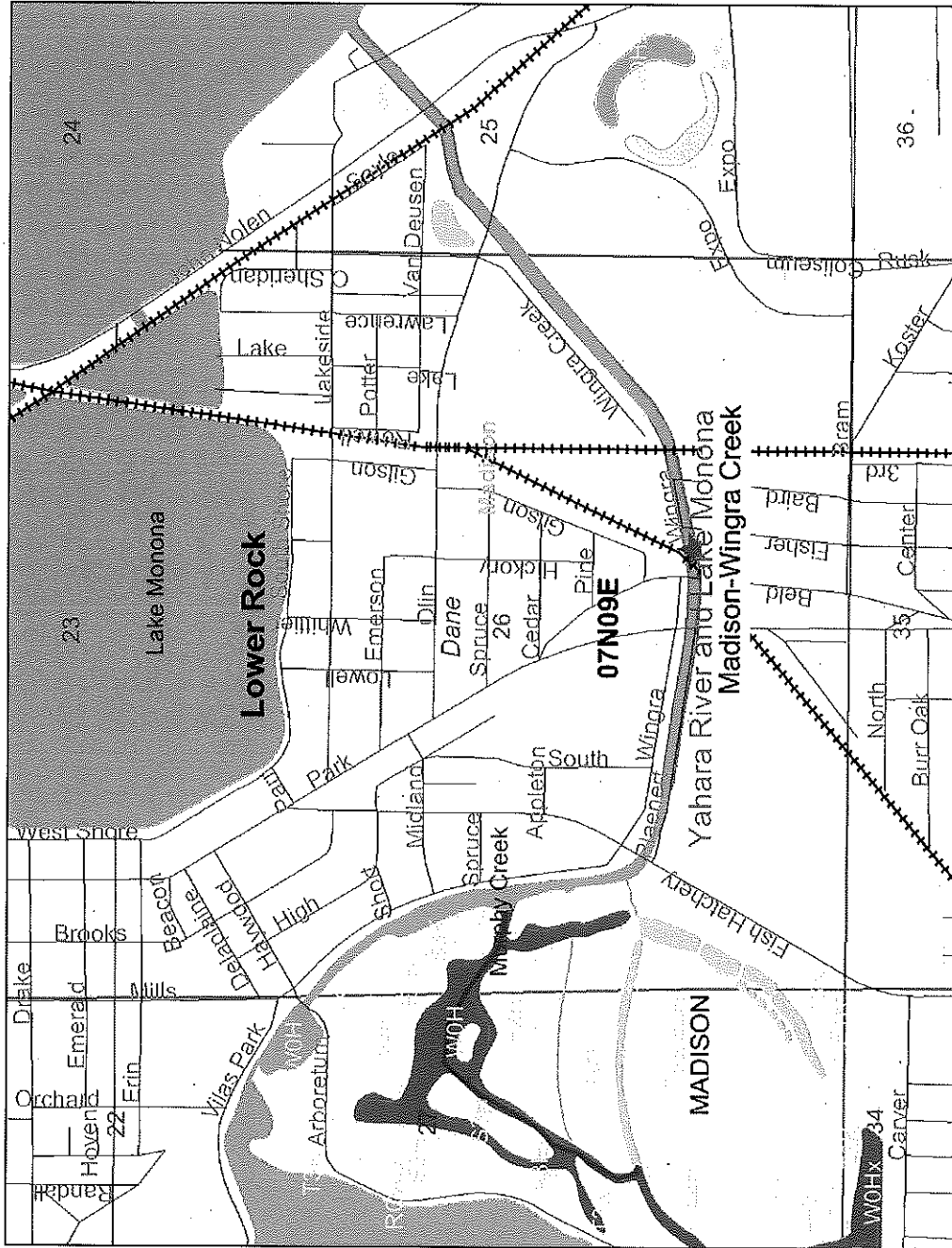
Signature of Authorized Representative



Date

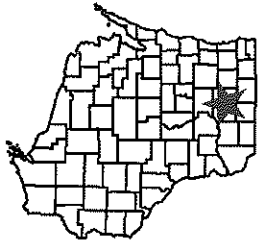


# Ctt\_Madison-Wingra Crk\_USC-LF08-13251-05\_Aug 13, 2007



0 1400 2800 4200 ft.

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



## Legend

- Railroads
- Local Roads
- NR104 Lines
- Outstanding and Exceptional Waters
- Exceptional Outstanding
- PRF Sensitive Areas of Lakes
- ASNRI Outstanding and Exceptional Streams
- ORW
- ORW
- ORW
- ASNRI Outstanding and Exceptional Lakes
- ERW
- ORW
- ORW
- ASNRI Wild and Scenic Rivers
- ASNRI Trout Streams
- Class I Trout
- Class II Trout
- Class III Trout
- ASNRI Wild Rice Streams
- ASNRI Wild Rice Areas
- ASNRI Quality Wetland Streams
- ASNRI Quality Wetland Areas
- ASNRI NHI Streams
- ASNRI NHI Areas
- PNW Musky Streams



Scale: 1:14,724