State of Wisconsin Department of Natural Resources-WT/2 PO Box 7921, Madison WI 53707-7921 Form 8700-299 (R 1/07)

Urban Nonpoint Source & Storm Water (UNPS&SW) Program Construction Grant Application – CY 2008 Funding

Page 1 of 17

Notice: Application is hereby made to the Wisconsin Department of Natural Resources, Bureau of Watershed Management for grant assistance consistent with s. 281.66, Wis. Stats., and Chapter NR 155, Wis. Adm. Code. Collection of this information is authorized under the authority of s. 281.66, Wis. Stats. The information contained in this form will be used for program budget analysis and project evaluation in the Urban Nonpoint Source Water Pollution Abatement and Storm Water Management Grant Program. 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.]. *Unless otherwise noted, all citations refer to Wisconsin Administrative Code*.

Instructions: Complete all section	ns as appli	cable.				
		Applicant	Information			
Governmental Unit Applying: (name	& type) (exam	nple: Madison, T	own of)			
Racine, City of			nggan panamanananan ni anananan mahambahah da sharan na shiran marakida kanan ni shiran na shiran da shiran na	nici kalalalalalalalalalalalalalalalalalaraki konsiki konsikun kansaninga ana dan samananga saga magan sagan s		
Name of Authorized Representative	(First, Last)		Name of Governm	ental Contact Per	son (Fir	st, Last) (if different)
John C. Rooney, P.E.						
Title	144 1		Title			
Assistant Commissioner of Public	C Works - E	ngineering	A O			
Area Code + Telephone Number 262-636-9460			Area Code + Tele	pnone Number		
Area Code + Fax Number			Area Code + Fax	Number		
262-636-9545			Alea Code + Lax	INUMBE		
E-Mail Address	***************************************		E-Mail Address		***************************************	
John.Rooney@cityofracine.org						
Mailing Address - Street or Route			Mailing Address -	Street or Route		
730 Washington Avenue, Room 3	04					
City	State	Zip Code	City		State	Zip Code
Racine	WI	53403				
Consulting Firm Name (if applicable))					
Earth Tech		······································	***************************************			
Consulting Contact Person Name						
Kelly Mattfield, P.E.	······································				****	
Title						
Project Manager						
Area Code + Telephone Number 608-828-8128				DNR Use	Only	
Area Code + Fax Number						
608-836-9767				Section 1		
E-Mail Address	······································					
Kelly.Mattfield@earthtech.com		10 mg 10				
Mailing Address - Street or Route		-				
1210 Fourier Drive, Suite 100						
City	State	Zip Code				
Madison	WI	53717				
			Information			
A. Project Name						

Colonial Park Root River Streambank Stablization

This document was drafted by the Department of Natural Resources.

Form 8700-299 (R 1/07)

Page 2 of 17

		land and only find design and the second sec	UNPS&SW Grant Project Name Colonial Park Root River Streambank Stablization				
		Project Ir	nformation	n (continue	e d)		
3. Location of Project Area		v					
County: Racine							
Mines Civil Division							
Minor Civil Division (city, town, village, example: Wrightstown, Village of)	Town (N)	Range (E/W)	Section	Quarter	Quarter/ Quarter	Latitude (N)	Longitude (W)
Racine, City of	03N	23E	8	NW	sw	42 43' 59"	-87 48' 52"
Method for Determining Latitude ☐ GPS ☑ DNR WebView or Surface W ☐ Other (specify):	-		e)				
C. Project Summary and Des	scription						
In 1979 the Root Rive Natural Resources (WDNR) a impaired waters since 1998 of is largely a lack of urban and The streambank sec and Lincoln Park. In 2005 the	nd sections of lue to high le l agricultural tion to be sta	of the rive vels of se nonpoint bilized in	r have bee dimentatio source BM this projec	n included n and pho Ps, combi et is upstre	on Wiscons sphorus. The ned with rap am of the fo	sin's Section 303 le root cause of t id development otbridge betweel	(d) list of he sedimentation of the watershed n Colonial Park

The streambank section to be stabilized in this project is upstream of the footbridge between Colonial Park and Lincoln Park. In 2005 the City completed a study to assess the streambank erosion taking place within a portion of this section; the assessment was based on Rosgen's BEHI index. The vegetation on the streambank consists of very large trees with little ground vegetation to keep the soil around the trees from eroding. The bank is eroding and undercut and is eroding around the larger trees due to lack of ground vegetation. This area will be stabilized through regrading of the banks and rock toe protection to prevent future undercutting of the banks. Installation of fiber roll, stabilization seed mix, and cuttings would stabilize the regraded banks. J-Hook vanes may be installed in the stream to reduce the stresses on the bank, along with providing fish habitat. These vanes would be placed on alternating sides to protect both banks from erosion. Trees that need to be removed for bank regrading could be used as root wad structures for bank protection and fish habitat.

Based upon the analysis completed for this project, there are a total of eight high erosion areas located along the Root River within the City. In prioritizing these areas for future streambank stabilization work, several factors were taken into account. These include total overall rating number, property ownership, protection of infrastructure or parks, potential stream improvement, and cost. The methods applied to stabilize streambanks are based on site-specific criteria such as the nature and extent of erosion, stream dynamics, adjacent land use, and proximity to private property, structures, trees, and utilities. The general strategy in designing a streambank stabilization solution is to stabilize the toe of the slope and then slope and vegetate the bank. Bioengineering solutions utilize living plant and/or organic materials or a combination of these materials and engineered products. In addition, bioengineering solutions can be cost-effective, ecologically sensitive, improve water quality and wildlife habitat, and return the stream to a more natural appearance without adversely affecting the neighboring property.

D.	Water	rshed &	Waterbod	y (see	Attachment	(A 1

vatershed a materibody (500 million month)		
Watershed Name	Watershed Code	Primary Waterbody
Root River	SE03-040	Root River

Note: If the project is in more than one watershed, submit a separate application for each watershed, unless this application is for a high-efficiency street sweeper.

UNPS&SW Program Construction Grant Application CY 2008 Funding Form 8700-299 (R 1/07) Page 3

Page <u>3</u> of <u>17</u>

		INDESCON CO. A Paris A N.
		UNPS&SW Grant Project Name
		Colonial Park Root River Streambank Stablization
		Project Information (continued)
\boxtimes		Project will serve existing development only. If no, provide attachments and the following:
		Percentage of design volume from existing development. (change default % if necessary)
		F. Request for Funding of Land Acquisition or Easements
	\boxtimes	Requesting funding for either land acquisition or purchase of easements as part of this application to support a structural urban best management practice (BMP). If yes, attach the property acquisition
		proposal, as defined in Attachment G , to the completed application form.
		G. Request for Retroactive Funding for Design
	\boxtimes	Requesting reimbursement for design costs that have been or will be incurred before issuance of the grant. See Instructions for required design approval process.
		H. Request for Funding Force Account Work
	\boxtimes	Requesting reimbursement for technical services to be performed by governmental unit staff (force
		account).
		I. Endangered and Threatened Resources, Historic Properties and Wetlands
		Check "Yes" for any of the following the governmental unit knows to occur where the project disturbs land:
	\boxtimes	 There are endangered or threatened resources, as identified in s. 29.604, Wis. Stats., and ch. NR 27 in the project area.
	\boxtimes	2. There are archaeological sites, historical structures, burial sites, or other historic places identified in s. 44.45, Wis. Stats., in the project area.
	\boxtimes	3. There are wetlands in the project area that are governed by water quality standard provisions of
		ch. NR 103 and for which mitigating measures should be taken to minimize the impacts. J. Environmental Contamination
П	\boxtimes	
Ц		The applicant is aware that there is environmental contamination of the soil and/or groundwater or potential for contamination in the project area.
		K. Alternative Funding Possibility
	\boxtimes	This applicant requests that the DNR also submit a copy of this application to the Clean Water Fund loan program.

UNPS&SW Program Construction Grant Application CY 2008 Funding Form 8700-299 (R 1/07)

Page 4 of 17

UNPS&SW Grant Project Name
Colonial Park Root River Streambank Stablization

				Part I. Screening Rec	uirements					
Yes	No	Α.	Мар							
\boxtimes			An 8.	5" x 11" topographic map from USGS or the DI	NR viewers shori	ng the project area is attached.				
		В.	Best	Management Practices (BMPs) For Which F	unding Is Requ	ested (check all that apply)				
			Dete	ntion Basin						
			Wetla	and Basin						
			Filtra	tion Practice						
			Infiltr	ation Practice						
			Prop	erty Acquisition – Fee Title						
			•	erty Acquisition – Easement						
				elerated or High-efficiency Street Sweeper						
				reline Habitat Restoration for Developed Areas						
_				ambank/Shoreline Protection:						
				Rip-Rapping						
				Shaping and Seeding Other Streambank/Shoreline Protection (includin	na Rio-anginoarir	na) - specify helpw				
				or (specify):	ig bio-engineeni	g) - specify below				
\boxtimes			Othe							
				Vegetated geogrids, rock toe, J-hook vane	S					
(see	Attac	hm	ent D	for additional BMP information)						
(
			C. Fi	iters Note: The governmental unit must be able to ar	newar "Vae" ar "N	I/A" (Not Applicable) to each of the				
Yes	No	5		ollowing to be eligible for a grant.	iswei Tes of N	(Not Applicable), to each of the				
\boxtimes]	1.	Project is in an urban area as identified in Atta	achment B.					
\boxtimes]	2.	Project will be completed within 24 months of	the start of the g	rant period.				
\boxtimes]	3.	Staff and contractors designated to work on the experience to implement the proposed project		dequate training, knowledge, and				
\boxtimes	Г	1	4.	Staff or contractual services, in addition to the		grant, will be provided if needed.				
\boxtimes]	5.	Best management practices constructed under	Best management practices constructed under this grant will not work at cross-purposes to (are consistent with) non-agricultural performance standards under ch. NR 151. (see Attachment E)					
\boxtimes	Г	٦	6.	The local DNR Regional Nonpoint Source Coordinator (see Attachment C) has been contacted about						
الاسكا	L	3	٠.	this project.						
				Name of the Regional Nonpoint Source	Date					
				Coordinator Contacted	Contacted	Subject of Contact				
				Pete Wood	3/15/07	Grant Application Submittal				
			7.	Construction Ordinance						
\boxtimes]		Local regulations and/or intergovernmental a end of the project period, to administer and e unit consistent with the non-agricultural perfo	nforce constructi	on erosion controls in the governmental				
			8.	Post-Construction Ordinance						
\boxtimes]		Local regulations and/or intergovernmental a end of the project period, to administer and e development and re-development in the governmence standards in s. NR 151.12.	nforce post cons	truction runoff from areas of new				

Form 8700-299 (R 1/07)

Page 5 of 17

					UNPS&SW Grant Colonial Park I	Project Name Root River Streambank Stablization	
				Part I. Screenin	g Requirement	s (continued)	
Yes	No	NA					
Ц		\boxtimes	9.	waterway or wetland permi	If this is an application to construct ponds in navigable streams or in wetlands, the necessary waterway or wetland permit (chs. 30 or 281, Wis. Stats.) has been received. If yes, give the docket number and date of issuance.		
				Docket Number		Date of Issuance	
\boxtimes			10.	a. The grant application is for a local governmental unit having jurisdiction over the project are			
				b. The grant application is for a local governmental unit not having jurisdiction over the project area and <u>both</u> of the following conditions are met:			
				The applicant is rec	quired to obtain a	permit under subchapter I of ch. NR 216.	
					to assure urban b	in place, or will be put in place prior to the end of est management practices included on the grant tachment J).	
				Note: A governmental unit control over the constru		nave jurisdiction over the project area if it has n maintenance.	
		\boxtimes	11.	techniques or measures to	control storm wa	n Board of Regents, the project is for practices, ter discharges on a University of Wisconsin System both of the following criteria:	
				 is located either i 	n a priority waters	orm water permit under ch. NR 216 <u>and</u> hed or lake area identified under s. 281.65, Wis. identified by the International Joint Commission	

under the Great Lakes Water Quality Agreement.

If the governmental unit answered "No" to any of the items in Question C above, stop here. This project is ineligible.

Form 8700-299 (R 1/07)

Page <u>4</u> of <u>17</u>

UNPS&SW Grant Project Name

Colonial Park Root River Streambank Stablization

Part II. Minimum Qualifications

Question 1. Fiscal Accountability

A. Timeline and Source of Staff

For each applicable milestone listed below, fill in the appropriate data:

Target Completion Date (month/year)	Source of Staff
4/2008	Consultant
6/2008	Consultant and Engineering Staff
NA NA	City owns property
5/2008	Engineering Staff
6/2008	Engineering Staff and Consultant
6/2008	Engineering Staff and Contractor
7/2008	Contractor
9/2008	Engineering Staff and Consultant
Spring 2009	Engineering Staff and Consultant
	4/2008 6/2008 NA 5/2008 6/2008 6/2008 7/2008 9/2008

B. Adequate Financial Budget

Provide the following information for the project. The state share may not exceed 50% of eligible costs. The grant amount is capped at \$150,000 for the installation of eligible BMPs and \$50,000 for property acquisition.

FINANCIAL BUDGET TABLE

A A	B	C	
Project Activity for Which <u>DNR Funding</u> is Requested	Estimated Total Cost (\$)	Amount from Column B Eligible for DNR Cost Sharing (\$)	
Construction Components:			
Mobilization	1,000	1,000	
Clearing & Grubbing	5,000	5,000	
Erosion Control Systems	5,000	5,000	
Excavation and grading	16,000	16,000	
Rock Toe Stabilization	8,000	8,000	
Native vegetation and restoration	18,000	18,000	
J-Hook Vanes	10,000	10,000	
Construction Management & Inspection Services	5,000	5,000	
Maintenance	2,000	2,000	
Contingency	10,500	10,500	
Construction Subtotal	\$80,500	\$80,500	
2. Design	23,000	23,000	
3. Storm Sewer Reroute			
4. Structure Removal			
5. Subtotal [add rows 1-4]	\$103,500	\$103,500	
6. Property Acquisition: Fee Title & Easement			
7. Grand Total [add rows 5 & 6]	\$103,500	\$103,500	

Form 8700-299 (R 1/07)

Page 7 of 17

	ľ	ΝP	S&	SW	Grant	Pro	ect	Name	
--	---	----	----	----	-------	-----	-----	------	--

Colonial Park Root River Streambank Stablization

	Part II. Minimum Q	ualifications (continued)	
Cost-Sharing Worksl Eligible Costs: Multiply the eligible result in the colum	e costs (column C) by the percent for pro	ration (if applicable) and the ap	oplicable cost-share rate. Enter the
8. Construction/D 9. Property Acqui	Design	100%	-Share % 50% \$ 51,750 50% \$ 0
Cap Test: 10. Construction/[Design: Lesser of (8) or \$150,000	10070	\$ 51,750
	uisition: Lesser of (9) or \$50,000 tte Share [(10)+(11)] nare:		\$ 0 51,750
	tate-Share Amount (Requested Grant An Amount [Grand Total (7), column B less (*		\$ 41,000 \$ 62,500
Local-Share Sour	rce(s): nwater utility is in place and this strean	nbank project is included in	the utility budget.
Average Costs for the Isl	to Calculate Cost Estimates: e Costs Method. Based upon enginee land Park Streambank Project (comple ne cost estimate for this project.	ring estimates using local ur ted on the west side of Islan	nit prices for similar projects. d Park in 2006) were used to assist
C. Cost-Effective	ness		
1. <u>Tar</u> a.	ngible Benefits Primary Benefit: List the pollutants to be controlled by the TSS	he project.	

2. Cost-Effectiveness

Explain \underline{why} the proposed project is cost-effective considering the environmental benefit(s) and cost of the project.

Bioengineering is typically a cost-effective method due to lower long-term maintenance costs (compared to hard armoring). Reducing erosion along the streambank will greatly reduce the amount of TSS entering the river.

Form 8700-299 (R 1/07)

Page 8 of 17

	UNPS&SW Grant Project Name Colonial Park Root River Streambank Stablization
Part II. Minimur	n Qualifications (continued)

Yes No 3. Alterna	TIVE	35
-------------------	------	----

 \boxtimes

- a. There is more than one way to achieve the benefits checked above. If no, go to part b.
 - 1) If **yes**, complete the following table with information for the alternative governmental unit have chosen and one or two other alternatives. Note that the table requires information about the cost and pollutant load/potential reductions.

	A	В	С	D	
Γ		Cost	Effectiveness	(B ÷ C) Cost-Effectiveness	
	Alternative	Estimated Amount	Estimated % of Pollutant Load Reduction		
	Bioengineering	\$ 103,500	100 %	103,500	
2	Hard Armoring (Retaining Wall)	\$ 135,000	100 %	135,000	
3		\$	%		

- 2) If the governmental unit is not choosing the alternative with the lowest ratio of cost to pollutant load/potential reductions, explain why it was not chosen in terms of any of the following: feasibility; secondary benefits potential; or other mitigating factors.
- b. If the answer to part 3.a. was no, explain why there is no other reasonable alternative to achieve the reduction in pollutant loading/potential or the secondary benefits checked above.
 Hard armoring will also not achieve the secondary benefits of riparian habitat enhancement.

Question 2. Project Evaluation Strategy

Pre- and post-project evaluation measures used to ensure success in meeting project goals.

A. Modeling & Measures of Change

The applicant must agree to provide a description of the modeled results or changes in pollution potential in the final project report. The project evaluation strategy will be based on comparing pre- and post-project changes in modeled pollutant loading to water resources or will be based on the quantity of units managed.

Check all that apply in the table below.

	Priority for Developed Urban Area	Units of Measure	Recommended Measurement Method	
	20-40% Reduction in TSS	Pounds TSS reduced	SLAMM, P-8	
		% TSS reduction		
	Infiltration	% Pre-development stay-on volume	Recarga, SLAMM, P-8 TR-55 or equivalent	
		Cubic feet stay-on volume		
	Peak flow discharge	Change in cubic feet per second		
	Protective areas	Feet of bank protected	count	
	Fueling & maintenance areas	Oily sheen presence	visual assessment	
	Streambank	Tons of bank erosion reduced	NRCS bank erosion formula	
		Feet of bank protected	count	
	Other (specify)			

Form 8700-299 (R 1/07)

Page 9 of 17

UNPS&SW Grant Project Name
Colonial Park Root River Streambank Stablization

	1000		Part II. Minimum Qualifications (continued)
Yes	No	В.	Monitoring (not eligible for cost sharing at this time)
\boxtimes			The project evaluation strategy will provide pre- and post-project information from water quality monitoring. If yes, check all that apply below.
		\boxtimes	The project will evaluate the physical habitat, fisheries, biological, or chemical conditions, including temperature and coliform bacteria.
		\boxtimes	A one-page summary of the monitoring strategy is attached.
		C.	Additional Monitoring
			The applicant is willing to participate with the Department to do monitoring in the project area should cost sharing become available.
Ques	stion 3	. Evic	lence of Local Support
			level of <u>local support</u> that <u>currently</u> exists for the proposed project.
Yes	No	A.	Government
\boxtimes		1.	 a. The local-share funds for the construction/installation expenses are already included specifically in an adopted budget.
			 b. The local-share funds for the construction/installation expenses are or will be included in a <u>proposed</u> budget.
\boxtimes		2.	The governmental unit has already conducted public information activities within the project area for this practice.
			If yes, provide details regarding the nature of the opportunity for public reaction the governmental unit provided and indicate the general public support or non -support for the project that was indicated.
			General I&E for storm water and streambank stabilization projects was conducted during the Stormwater Utility development process.
		В.	Landowners
		1.	The governmental unit:
\boxtimes			a. already owns, or holds an easement for, the land on which the project is to be installed.
	\boxtimes		b. is submitting with the application a list of landowners, occupants, or tenants that occupy the property and information indicating each party's willingness to sell or ease the necessary parcel.
\boxtimes		2.	Evidence is attached of citizen (non-governmental) support for the project (such as letters from the neighborhood association, a civic group or an environmental organization).
Que	stion 4	1. Ba:	sin Priorities (check one)
\boxtimes	A.		an Water Act s. 303(d) List of Impaired Waters
		;	Project with water quality goals directly dealing with a waterbody (lake or stream) on the latest Clean Water Act (CWA) s. 303(d) List of impaired waters, where the cause of the water quality impairment is nonpoint source pollution, and the project will reduce the type of nonpoint source pollutants for which the water is listed.
	В.		tstanding and Exceptional Resource Waters
			Waterbody is included in s. NR 102.10 (Outstanding Resource Waters) and/or s. NR 102.11 (Exceptional Resource Waters).
	C.		S Rankings
			Project is located in a large-scale watershed, a small-scale watershed, lake watershed, or other area ranked high or medium on the NPS Rankings List, where the goals of the project are directly associated with the reason for the ranking on the NPS Rankings List.
	D.		nendment of the NPS Rankings List Using State of the Basin Reports
***************************************			Project is located within a watershed ranked low or not ranked on the NPS Rankings List, but information in a DNR State of the Basin report indicates a need to amend the NPS Rankings List because the stream or stream segment or lake is being affected by nonpoint sources of pollution.

UNPS&SW Program Construction Grant Application CY 2008 Funding Form 8700-299 (R 1/07) Page 10

Page 10 of 17

		UNPS&SW Grant Project Name
		Colonial Park Root River Streambank Stablization
		Part II. Minimum Qualifications (continued)
5,000,000,000		
	E.	Amendment of the NPS Rankings List Using Other Data Sources
		Project is located within a watershed ranked low or not ranked on the NPS Rankings List, but adequate data exists to request a ranking of high or medium for a waterbody that is being affected by nonpoint sources of pollution.
	F.	Sources of Information for Areas Not Included in State of the Basin Reports
		For some border waters, there is no State of the Basin report (i.e., along the Mississippi River or the Great Lakes). For these situations, another governmental document, accepted by the Regional NPS Coordinator, can be used to classify the resource as having a significant nonpoint source pollution impairment.
	G.	Not Included in Other Categories Above

Form 8700-299 (R 1/07)

Page II of 17

UNPS&SW Grant Project Name
Colonial Park Root River Streambank Stablization

Competitive Flements

Part III. Competitive Elements **Question 5. Water Quality Needs** The water quality category which best identifies the water quality goals for the project directly deals with: (check one) Note: For border waters where a State of the Basin Report does not exist, another governmental document acceptable to the Regional Nonpoint Source Coordinator may be used to identify the water quality need. **Surface Water Considerations** 303(d) Listed Waterbody \boxtimes A waterbody (lake or stream) on the latest Clean Water Act (CWA) s. 303(d) List of impaired waters, where the cause of the water quality impairment is nonpoint source pollution, and the project will reduce the type of nonpoint source pollutants for which the water is listed. B. **Not Fully Meeting Uses** A waterbody (lake or stream) identified in a DNR State of the Basin report as not meeting or partially meeting designated uses due to nonpoint sources, but is not on the 303(d) List. C. **Threatened Waterbody** A waterbody (lake or stream) viewed as "threatened" by nonpoint sources in a DNR State of the Basin report. D. **Outstanding or Exceptional Resource Waters** П Prevention of degradation due to nonpoint sources of outstanding or exceptional resource waters or high quality, recreationally significant waters, but not including waters listed as "threatened." **Surface Water Quality** П Prevention of surface water quality degradation due to nonpoint sources. Waters in this category are neither high quality, recreationally significant waters nor "threatened" waters. **Groundwater Considerations* Exceeds Groundwater Enforcement Standard** Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed the Enforcement Standard (ES). **Groundwater Quality** (see Attachment H) G. The project area is within a geological area defined in Attachment H as susceptible to groundwater contamination. **Exceeds Groundwater Preventive Action Limit** П Н. Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed Preventative Action Limits (PAL). *Consult the Regional Drinking Water and Groundwater Specialist or the County Extension office. Bonus Points (see Attachment F): Yes No \boxtimes Water quality goals relate to the control of nonpoint source contaminants in public drinking water supplies. If yes, and the source of drinking water affected by the project area is groundwater, the project protects: One wellhead OR More than one wellhead b. 2. If yes, and the source of drinking water affected by the project area is surface water, check the source water assessment area in which the project is located: Pike River & Creek Twin Rivers \boxtimes Root River Kewaunee & Ahnapee Oak Creek Menominee River Milwaukee River Fish Creek Sauk Creek St. Louis & Nemadji River Sheboygan & Onion Rivers Lake Winnebago

Manitowoc River

Form 8700-299 (R 1/07)

UNPS&SW Grant Project Name

Page 12 of 17

Colonial Park Root River Streambank Stablization Part III. Competitive Elements (continued) Question 6. Extent of Pollutant Control NR 151 Performance Standard for Total Suspended Solids Yes No X П This project focuses on controlling total suspended solids (TSS) in urban runoff that enters waters of the state. Only check "Yes" if the area is covered by an NR 216 permit. В. Other Water Resources Management Priority \boxtimes The proposed project addresses a water resources management priority other than the NR 151 performance standard in part A above. If yes, describe the priority and how the project addresses this priority. One of the local priorities is to reduce erosion along the Root River and improve the habitat and recreational opportunities along the River. This project accomplishes these goals by stabilizing the streambank and reducing erosion into the River. The bioengineering along the bank will improve both riparian and in-stream habitat, thus improving recreational opportunities. \boxtimes П **Planning Data & Source Targeting** The applicant has quantitative planning information that ranks pollution sources from highest to lowest in severity and the proposed project will manage a pollution source contained in the top 50% of the ranked list. If yes, provide: Description of planning data The Outfall and Streambank Erosion Assessment report was conducted to evaluate the condition of the storm sewer outfalls and the streambanks along the Root River and the associated erosion and erosion potential, which includes a discussion on field methods and activities, GIS maps of the outfall and streambank assessment results using Rosgen's BEHI index, discussion of potential bioengineered solutions, associated permitting requirements, and potential grant funding sources. The Comprehensive Stormwater Management plan is a source of information regarding stormwater pollutant loads, drainage information for the entire City, and provides final prioritization for stormwater management recommendations for the City. Name of document(s) Root River Outfall and Streambank Erosion Assessment (Earth Tech) and City of Racine **Comprehensive Stormwater Management Plan** Date(s) published January 2005 and July 2002, respectively Pertinent page numbers Pages 1-1 thru 5-5, 6-1, Appendix A and 7-33, respectively A copy of non-state document(s) is available: (check all that apply) At this website: Attached to this application form. \boxtimes Phone: 608-828-8128 Contact this person: Name: Kelly Mattfield Question 7. Consistency with Resource Management Plans & Supporting Regulations Yes No Consistency with Resource Management Plans \boxtimes The project implements a water quality recommendation from a locally approved resource management plan. Summarize the water quality recommendation. Cite the name and date(s) of publication of the document. Refer to page 5-5 in the Root River Outfall and Streambank Erosion Assessment report and the City of Racine Comprehensive Stormwater Management Plan.

The project is located within an area which has:

UNPS&SW Program Construction Grant Application CY 2008 Funding Form 8700-299 (R 1/07) Page 13

Page 13 of 17

			UNPS&SW Grant Project Name Colonial Park Root River Streambank Stablization		
			Part III. Competitive Elements (continued)		
Ø		1.	One or more regulations that implement the non-agricultural performance standards for developed urban areas under s. NR 151.13.		
		2.	Other regulations designed to reduce the impact on water quality from new development, other than construction site erosion control or a storm water ordinance.		
			Describe in relation to the goals of the project.		
Ques	ition 8.	Use	of Additional Funding		
Yes	No	NA			
\boxtimes			A. The project is for construction or design and the state share is below the \$150,000 cap.		
		\boxtimes	B. The project includes property acquisition and the state share is below the \$50,000 cap.		
\boxtimes			C. Funding requested is below the 50% cost-share rate.		
Que	stion 9.	City	of Racine		
Yes	No		is an application from the City of Racine for a project that is necessary for the city to comply with state storm permitting requirements.		

Form 8700-299 (R 1/07)

Page 14 of 17

UNPS&SW Grant Project Name

Colonial Park Root River Streambank Stablization

			Part IV. Eligibility for Multipliers
Compli for a p	etion of	this particular	art of the application is optional. However, an applicant can increase the final project score by qualifying er.
Local	Implen	nentat	on Program
Yes	No	NA	
\boxtimes			A. The governmental unit is implementing a pollution prevention information and education program targeted for property owners and other residents.
\boxtimes			B. The governmental unit is implementing a nutrient management plan for municipally owned properties of at least five acres of pervious area where nutrients are applied.
\boxtimes			C. The governmental unit is implementing a tracking of storm water permitting activity (construction and post-construction) in the governmental unit and can make summary information available to the DNR upon request.
		4 6 6 6 7	Optional Additional Information
thro	ugn the	e City :	s stormwater utility.
			Applicant Certification
incl	ude sia	nature	presentative must sign and date the application form prior to submittal to the DNR. All four copies must sof the Authorized Representative.
l ce	rtify tha	at. to th	e best of my knowledge, the information contained in this application and attachments is correct and true.
Sig	nature <	of Auth	Date Signed 3/30/07
J	ohn Q ks - Er	Roone	y, P.E. Assistant Commissioner of Public [name and title]
			er 262-636-9460 Fax Number 262-636-9545

To be considered for funding, provide the following for each application submitted:

Mailing Address 730 Washington Avenue, Room 304 Racine WI 53403

- One copy of the completed application form (DNR Form 8700-299 (R 1/07) with original signature in blue ink;
- Three additional copies of the completed, signed application form;
- One electronic copy of the completed application form on CD or diskette.

All application materials must be postmarked by midnight April 16, 2007.

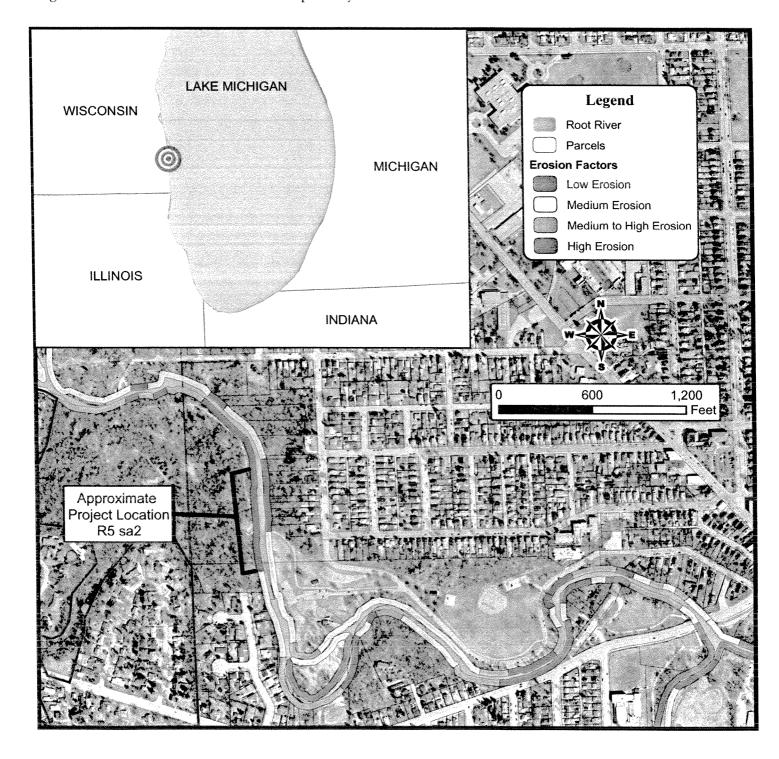
Mail to: Department of Natural Resources Attn: Kathy Thompson, WT/2 P.O. Box 7921 Madison, WI 53707-7921

E-Mail Address John.Rooney@cityofracine.org

Colonial Park Root River Streambank Stabilization

Part I. Screening Requirements A. Map of Project Location

The proposed project is located in Southeastern Wisconsin on the Root River. The headwaters of the Root River begin in New Berlin, Wisconsin; it then flows for 43 miles through Milwaukee and Racine Counties, ultimately emptying into Lake Michigan in the City of Racine. The proposed project is located on the west bank of the river, within Colonial Park in the City of Racine. The approximate latitude and longitude are 42° 43′ 59″ and -87° 48′ 52″ respectively.



Part II. Minimum Qualifications Question 2. Project Evaluation Strategy B. Monitoring

Monitoring Strategy

Engineering consultant will perform site visits for the purpose of observing the function of the J-hook vanes at various flow conditions. These structures will be observed during one (1) low flow period, one (1) average flow period, and one (1) high flow period, similar to the Island Park location constructed and monitored under a previous WDNR grant. Current flows will be obtained from the USGS gauging station and compared to historic flow records to determine low, average, and high flow conditions. A one to two page memo of these observations, with photographs, will be provided to the City and WDNR.

Monitoring of the streambank is also included in this strategy. This will include calculating the tons of bank erosion reduced using the NRCS bank erosion formula or measuring the feet of bank protected. The City will decide the preferred method and a memo will be written with these observations. In stream and streambank monitoring will include vegetation stability. The vegetation will be monitored for survivability and will be replaced as necessary, per the contract with the City.

No additional chemical or biological monitoring is included in this strategy because the bank stabilization is not expected to have a noticeable impact on river characteristics at this location.



RECEIVED

Connecting to Preserve, Promote, Protect

AAPR 12 2007

Root-Pike Watershed Initiative Network

COTTY ENGINEER

Staff

John C. Rooney, P.E.

Assistant Commissioner of Public Works - Engineering

Melanie Bohl **Executive Director**

City of Racine 730 Washington Avenue, Room 304

Racine, WI 53403

Board of Directors

Andrew Yencha President

Sara Wilson

Vice President

Reva Holmes Treasurer

Wendy McCalvy Secretary

Roger Chernik

William DeKraay Jr.

Michael Luba

Jim Mueller

William Sasse

Dear John,

This letter is to support the grant application the City of Racine is submitting to the Department of Natural Resources. The plan is to prevent any further stream bank erosion along the Root River in Colonial Park. Colonial Park is an inner city park where a number of groups have worked to replace invasive species with

naturally occurring ones.

Stream bank erosion is a problem in the area described because it is not far away from a city road that runs along the Park. The problem is that there is very little ground cover to prevent erosion that presently undercuts the banks of the river. We support this application and see the work as vital to the maintenance of the

Park and the natural areas it contains.

Melanie Bohl

Executive Director