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

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 sections as applicable.

Applicant Information

Governmental Unit Applying: (name & type) (example: Madison, Town of)
Bayside, Village of

Name of Authorized Representative (First, Last) Andy Pederson			Name of Governmental Contact Person (First Last) (if different) Joel Hawkins		
Title Village Manager			Title Director of Public Works		
Area Code + Telephone Number (414) 351-8811			Area Code + Telephone Number (414) 247-7711		
Area Code + Fax Number (414) 351-8819			Area Code + Fax Number (414) 247-7719		
E-Mail Address manager@bayside-wi.gov			E-Mail Address jhawkins@bayside-wi.gov		
Mailing Address - Street or Route 9410 North Lake Drive			Mailing Address - Street or Route 9075 North Regent Road		
City Milwaukee	State WI	Zip Code 53217	City Bayside	State WI	Zip Code 53217

Consulting Firm Name (if applicable)
Ruekert/Mielke

Consulting Contact Person Name
Russ Barry

Title
Project Engineer

Area Code + Telephone Number (262) 542-5733		DNR Use Only
Area Code + Fax Number (262) 542-5631		
E-Mail Address rbarry@ruekert-mielke.com		
Mailing Address - Street or Route W233 N2080 Ridgeview Parkway		
City Waukesha	State WI	Zip Code 53188

Project Information

A. Project Name

Village of Bayside Storm Water Managment Plan

This document was drafted by the Department of Natural Resources.

UNPS&SW Grant Project Name

Village of Bayside Storm Water Managment Plan

Project Information (continued)

B. Project Area Location

County: Milwaukee & Ozaukee Counties

Minor Civil Division (city, village, town, etc.-example: Wrightstown, Village of)	Township (N)	Range (E/W)	Section
Bayside, Village Of	08N	22E	3-5, 8-10
Bayside, Village Of	09N	22E	33

Please identify the latitude and longitude of a point located approximately in the center of the planning area, and select the "Method for Determining" the center point.

				Method for Determining (check one)
	Degrees	Minutes	Seconds	☐ GPS ☑ DNR WebView or Surface Water Data Viewer ☐ Other (specify):
Center Point Latitude (N)	43	10	49N	
Center Point Longitude (W)	87	54	12W	

C. Project Summary and Description

See Attached page 12.

D. Watershed and Waterbody (see **Attachment A**)

Watershed Name	Township Name **(for respective Town/Range/ Section, listed above)**	Watershed Code **(for respective Town/Range/ Section, listed above)**	% of Project Area **(for respective Town/Range/ Section, listed above)**	Primary Waterbody **(for respective Town/Range/Section, listed above)**
Milwaukee River South	Bayside, Village Of	MI02	100 %	Indian Creek / Milwaukee River / Lake Michigan
			%	

UNPS&SW Grant Project Name

Village of Bayside Storm Water Managment Plan

Project Information (continued)

			%	
			%	
			%	

Note: The planning project area can include more than one watershed. Do not submit separate applications for the same activity in each watershed.

Part I. Screening Requirements

Yes No **A. Map**

☑ ☐ An 8.5" x 11" topographic map from USGS or the DNR viewers, showing the project area, is attached.

B. Planning Activities For Which DNR Funding Is Requested (check all that apply)

☑ Storm water management planning (including plans for new and/or existing development).

☑ Ordinance development and administration (including construction site erosion control and/or storm water management).

☐ Evaluation and/or establishment of local financing options (such as storm water utilities).

☑ Public education and outreach.

☐ Other (specify):

(see **Attachment D** for additional planning activity information)

Yes No **C. Filters**

Note: You must be able to answer "Yes" to each of the following to be eligible for a grant.

☑ ☐ 1. Project is in an area that is urban or will be urban within 20 years. (see **Attachment B**)

☑ ☐ 2. Project will be completed within 24 months of the start of the grant period.

☑ ☐ 3. Staff and consultants designated to work on this project have adequate training, knowledge, and experience to implement the proposed project.

☑ ☐ 4. Staff or contractual services, in addition to those funded by this grant, will be provided if needed.

☑ ☐ 5. Planning products prepared under this grant will not work at cross-purposes to (are consistent with) non-agricultural performance standards under ch. NR 151. (see **Attachment E**)

☑ ☐ 6. The local DNR Regional Nonpoint Source Coordinator (see **Attachment C**) has been contacted about this project.

Name of the Regional Nonpoint Source Coordinator contacted	Date contacted	Subject of contact
Susan (Beaumier) Eichelkraut	04/05/2007	Bayside Storm Water Managment Plan

☑ ☐ 7. Can you declare that at least one of the two statements below is TRUE?

Statement A. The grant application is for a local governmental unit that does have jurisdiction over the project area. (Jurisdiction over the project area means that the governmental unit has control over whether the planning recommendations are carried out.)

Statement B. The applicant does not have jurisdiction over the project area. The applicant is required to obtain a permit under subchapter I of ch. NR 216. Attached to this application is an intergovernmental agreement that meets the requirements of **Attachment H.**

☑ ☐ 8. Can you declare that at least one of the two statements below is TRUE?

Statement A. The applicant is not the University of Wisconsin Board of Regents.

Statement B. The applicant is the University of Wisconsin Board of Regents **and** the project will develop recommendations for a UW Campus area located in a municipality that meets **both** of the following criteria:

- The municipality is required to obtain a municipal storm water permit under ch. NR 216;
- The municipality is located either in a priority watershed or lake area identified under s. 281.65, Wis. Stats., or in an area of concern as 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.

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: See Attached page 13.

Milestone	Target Completion Date (month/year)	Source of Staff
Prepare preliminary scope of services and discuss with DNR NPS Coordinator		
Prepare Request for Proposal		
Select Consultant		
Finalize Scope of Service and Professional Services Contract		
Get DNR Approval of Professional Services Contract		
Hold "kick-off" meeting		
Additional Milestones: (list below)		
Interim Meeting with DNR		
Presentation to Municipal Council		
Submit project and final report to DNR		

B. Adequate Financial Budget

Provide the following information for the project.
The state share may not exceed 70% of eligible costs. The grant amount is capped at $85,000 for the eligible planning activities.

FINANCIAL BUDGET TABLE – PLANNING ACTIVITIES

A	B	C
Project Activity for which DNR Funding is Requested	**Estimated Total Cost ($)**	**Amount from Column B Eligible for DNR Cost Sharing ($)**
Existing System Inventory	$5,000	$5,000
Update Storm Sewer Map	$10,000	$10,000
Describe Existing Management Programs	$2,000	$2,000
Discharge Characterization	$2,000	$2,000
Erosion Control and Storm Water Ordinance Review and Updates	$4,000	$4,000
Water Quality Analysis	$25,000	$25,000
Water Quality Improvements	$10,000	$10,000
Fiscal Analysis	$5,000	$5,000
Public Information and Education Program	$5,000	$5,000
Illicit Discharge Program / Ordinance Review and Update	$2,500	$2,500
Implementation Plan	$7,500	$7,500
Report and Presentation to Village Board	$5,000	$5,000
1. Total	$83,000	$83,000

UNPS&SW Grant Project Name

Village of Bayside Storm Water Managment Plan

Project Information (continued)

Cost-Sharing Worksheet

Eligible Costs:

2. 70% of column C, Total (1) above	$58,100
Cap Test:	
3. Maximum State Share [Lesser of (2) or $85,000]	$58,100
State & Local Share:	
4. Requested State-Share Amount (=Requested Grant Amount)	$58,100
5. Local-Share Amount [Total (1), column B less (4)]	$24,900

Describe the Quality of Cost Estimates (in your description, discuss whether the cost estimate is based on a competitive bid, scope of services, similar projects conducted locally, similar projects conducted elsewhere in the state or region, or other more generalized data):

Cost estimates were based on the attached draft scope of services and average cost data for similar tasks within the Village and the Southeastern Wisconsin Region.

Question 2. Project Evaluation Strategy

Yes No Information that will be developed and presented to DNR to evaluate the environmental benefits of completing this project. (check all that apply)

☑ ☐ A. Information that quantifies how project implementation is projected to decrease storm water impacts on state waters will be provided to DNR. The information may be provided as part of the planning product (e.g., storm water plan, I&E plan) or in the Final Report.

B. Tracking

☑ ☐ 1. Information that tracks progress in carrying out recommendations of this project will be provided to the Department for one (1) to two (2) years after the project is completed.

2. Specify the number of years that tracking information will be provided, and describe in concept how this annual post-project tracking process will work:

See Attached page 14.

Question 3. Evidence of Local Support

Yes No The level of local support that currently exists for the proposed project.

A. **Government**

☐ ☐ 1. The local-share funds for the project expenses are already included specifically in an adopted budget.

OR

☑ ☐ 2. The local-share funds for the project expenses are or will be included in a proposed budget.

B. **Community**

☑ ☐ 1. There is community support specifically for the project in this application, and evidence of this support is included with the application submittal.

UNPS&SW Grant Project Name

Village of Bayside Storm Water Managment Plan

Project Information (continued)

OR

☐ ☐ 2. There is community support for addressing general water resource needs in the community, even though there may not be evidence of support for this specific project.

Question 4. Basin Priorities (check one)

☑ **A. Clean Water Act s. 303(d) List**

Project with water quality goals directly dealing with a water body (lake or stream) on the latest Clean Water Act (CWA) s. 303(d) List of Impaired Waters, where the cause of the impairment in nonpoint source pollution and the project will reduce the type of nonpoint pollutants for which the water is listed.

☐ **B. Outstanding 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. NPS 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. Amendment 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.

☐ **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**

50% or more of the planning area is not included in the categories above (A-F).

Part III. Competitive Elements

Question 5. Water Quality Needs

For each watershed in the project area, identify the category that best identifies the project goals. If more than one category is checked (because the project area contains more than one watershed), estimate the portion of the project area to be assigned to each category.

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.

	Percent of Project Area	Surface Water Considerations
☑	100%	**A. 303(d) Listed Waterbody** Project with water quality goals directly dealing with a water body (lake or stream) on the latest Clean Water Act (CWA) s. 303(d) List of Impaired Waters, where the cause of the impairment in nonpoint source pollution and the project will reduce the type of nonpoint 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** 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."
☐		**E. Surface Water Quality** Prevention of degradation of surface water quality due to nonpoint sources. Waters in this category are neither high quality, recreationally significant waters nor "threatened" waters.
		Groundwater Considerations*
☐		**F. Exceeds Groundwater Enforcement Standard** Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed the Enforcement Standard (ES).
☐		**G. Groundwater Quality** (see **Attachment G**) The project area is within a geological area defined in Attachment G as susceptible to groundwater contamination.
☐		**H. Exceeds Groundwater Preventive Action Limit** Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed the Preventative Action Limit (PAL).

*Consult the Regional Drinking Water and Groundwater Specialist or the County Extension office.

Bonus Points (see **Attachment F**):

Yes	No		
☑	☐		Water quality goals relate to the control of nonpoint source contaminants in public drinking water supplies.
		1.	If yes, and the source of drinking water affected by the project area is groundwater, the project protects:
☐		a.	One wellhead
			OR
☐		b.	More than one wellhead

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. If more than one assessment area is checked (because the project area contains more than one watershed), estimate the portion of the project area to be assigned to each category.

	Source Water Drainage Area	Portion of Project in Assessment Area (%)
☐	Pike River & Creek	
☐	Root River	
☐	Oak Creek	
☑	Milwaukee River	100%
☐	Sauk Creek	
☐	Sheboygan & Onion Rivers	
☐	Manitowoc River	
☐	Twin Rivers	
☐	Kewaunee & Ahnapee Rivers	
☐	Menominee River	
☐	Fish Creek	
☐	St. Louis & Nemadji Rivers	
☐	Lake Winnebago	

Question 6. Extent of Pollutant Control

A project can consist of one or more of the following parts (A-F). For each part below, check the boxes that describe work products that will be produced under this grant. Do not check boxes based on prior work.

A. Ordinances
The project will develop or complete one or more of the following ordinances, including associated information, education and public participation activities. (check all that apply)

☑ 1. Construction erosion control ordinance including all the requirements of s. NR 151.11.
☑ 2. Storm water ordinance for new development and re-development including all the requirements of s. NR 151.12.
☐ 3. Low impact development/conservation subdivision ordinances.
☑ 4. Other ordinances such as an illicit discharge ordinance, storm water ordinances affecting runoff from developed urban areas (*e.g.*, pet waste management ordinances, nutrient management ordinances), or ordinances that regulate the application of fertilizers to non-municipal properties in accordance with NR 151.14

B. Financing Mechanisms
The project will evaluate financing mechanisms for storm water management, including associated information, education and public participation activities. Recommendations will be presented to the governing board for approval and DNR will be notified of the governing board's action. (check one of the following)

☐ 1. The project develops a dedicated revenue source, such as a storm water utility, to implement a storm water program focusing on implementation of performance standards in Subchapter III of ch. NR 151.
OR
☑ 2. The project is a general feasibility analysis of alternative funding mechanisms.

C. Storm Water Plan for Developed Urban Areas
The project will develop a storm water management plan for developed urban areas that addresses all of the performance standards under s. NR 151.13 including associated information, education and public participation activities. (check one of the following)

☑ 1. This project will cover the entire geographic area of the governmental unit.
OR
☐ 2. This project will cover only part of the geographic area of the governmental unit.

D. Storm Water Plan for New or Redevelopment
The project will develop a storm water management plan for new development and re-development that addresses all of the performance standards under s. NR 151.12 including associated information, education and public participation activities. (check one of the following)

☑ 1. This project will cover the entire geographic area of the governmental unit.
OR
☐ 2. This project will cover only part of the geographic area of the governmental unit.

UNPS&SW Grant Project Name

Village of Bayside Storm Water Managment Plan

Project Information (continued)

E. Information & Education Program

☑ The project will develop and/or implement an information and education program. (This does not include the information and education activities required as part of project under A. through D., above.)

F. Inter-Municipal Cooperation (bonus)

☐ This project is being conducted as part of an inter-governmental storm water management strategy for a common water resource. Describe the inter-governmental effort that will be used to complete the project. If more than one local unit of government is joining in this project application, (a "joint application"), then an inter-governmental agreement meeting the requirements of **Attachment H**. must be submitted with this application.

Question 7. Consistency with Resource Management Plans

Yes No

A. Consistency with Resource Management Plans

☑ ☐ The project implements a water quality recommendation specifically included in a locally approved resource management plan. (See Attached page 15)

B. Summarize the water quality recommendation from the local plan. Cite the name and date(s) of publication of the document.

☑ ☐ 1. A construction site erosion control ordinance consistent with the performance standards of s. NR 151.11.

Section 38-151 of the Municipal Code

☑ ☐ 2. A storm water management ordinance consistent with the performance standards of s. NR 151.12.

Section 38-150 of the Municipal Code

Question 8. Use of Additional Funding

Yes No

☐ ☑ Funding requested is below the 70% cost-share rate and below the $85,000 cap.

Question 9. City of Racine

Yes No

☐ ☑ This is an application from the City of Racine for a project that is necessary for the city to comply with state storm water permitting requirements.

Part IV. Eligibility for Multipliers

Completion of this part of the application is optional. However, an applicant can increase the final project score by qualifying for a project multiplier.

Local Implementation Program (select all that are in place as of the application submittal date)

Yes No NA

☑ ☐ A. The governmental unit is implementing a pollution prevention information and education program targeted for property owners and other residents.

☐ ☐ ☑ B. The governmental unit is implementing a nutrient management plan for municipally owned properties of at least five (5) acres of pervious area where nutrients are applied.

☑ ☐ C. The governmental unit is tracking storm water permitting activity (construction and post-construction) in the governmental unit and can make summary information available to the DNR upon request.

Optional Additional Information

Carefully review the answers to all of the questions above. Is there additional information that will add to the understanding of this project? If so, describe here.

See Attached pages 17-19

Applicant Certification

An Authorized Representative must sign and date the application form prior to submittal to the DNR. All **four (4)** copies must include the signature of the Authorized Representative.

I certify that, to the best of my knowledge, the information contained in this application and attachments is correct and true.

Signature of Authorized Representative	Date Signed
Andrew Pederson, Village Manager *[name and title]*	4-11-07

Telephone Number 414-351-8811
Fax Number 414-351-8819
E-Mail Address apederson@bayside-wi.gov
Mailing Address 9075 N. Regent Road Bayside, WI 53217

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

- One copy of the completed application form (DNR Form 8700-300 (R 1/07) with original signature in blue ink;
- Three additional signed copies of the completed 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

Project Information

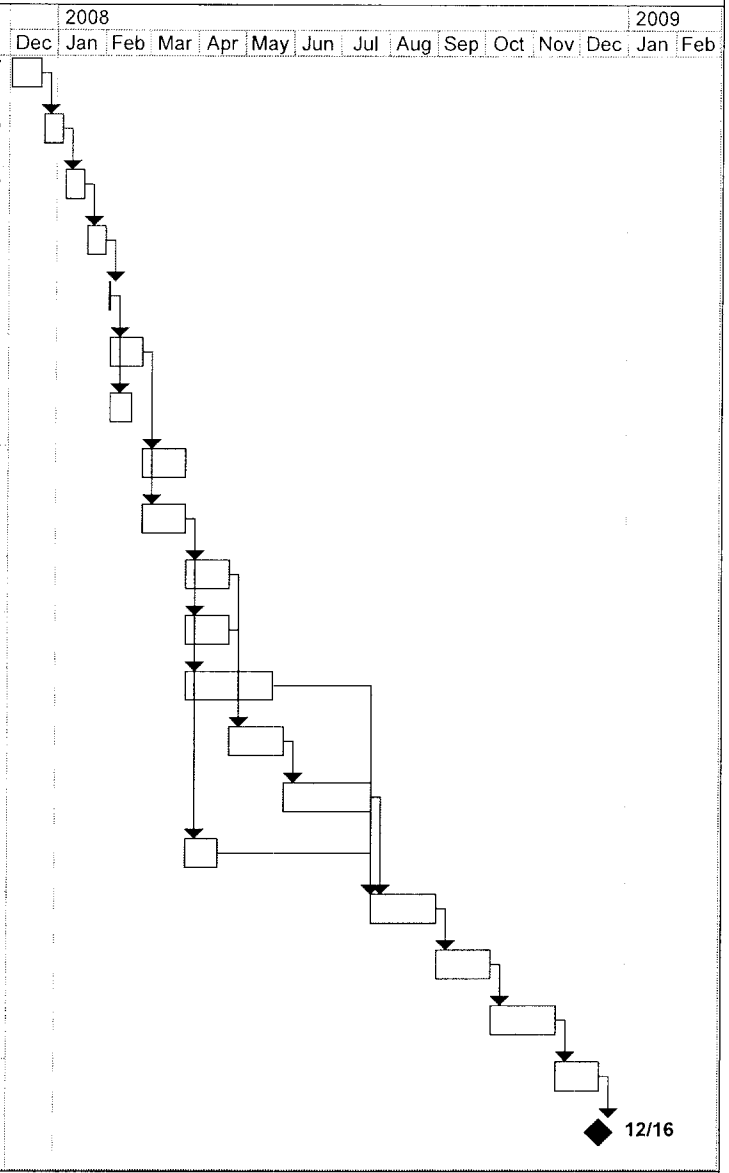
C. Project Summary and Description

The Village of Bayside is applying for UNPS and SW Planning Program Funding for a Comprehensive Storm Water Management Plan to detail existing and proposed storm water quality conditions and recommended improvements. The Village of Bayside seeks to protect and improve water quality of the Milwaukee River South watershed, of which the Village is a part. The Milwaukee River and Indian Creek are both classified as impaired waters and listed as 303d waterways. Protecting and improving these valuable resources is a priority for both the Village and its constituents.

One of the first steps towards preservation and protection of these resources is to complete a storm water management plan. The successful implementation of a comprehensive storm water management program will result in a significant improvement of water quality throughout the Village and the watersheds in which it is located. This plan is designed to be an effective planning tool for existing conditions along with future development and redevelopment. The Village is taking a proactive approach toward storm water management and the plan will facilitate implementation consistent with the Village's WPDES Storm Water Permit. The scope of the study will include 1) examination of existing storm water and water quality conditions; 2) performance of a water quality analysis for the entire Village using the Source Loading and Management Model (SLAMM); 3) development and analysis of alternatives to produce a recommended plan meeting the Village's goals and the requirements of the WPDES Permit; 4) evaluation of existing ordinances for water quality goals; 5) development of public education and involvement programs; 6) development of an illicit discharge detection and elimination program and ordinance; 7) analysis of existing municipal operations for permit compliance; 8) prioritization and performance of a fiscal analysis of the recommended improvements; and 9) completion of a report summarizing the findings and recommendations of the plan.

Village of Bayside
Storm Water Managment Plan
Timeline and Source of Staff

ID	Task Name	Duration	Start	Finish
1	Prepare Preliminary Scope and Discuss with DNR	15 days	Mon 12/3/07	Fri 12/21/07
2	Select Engineering Consultant	10 days	Mon 12/24/07	Fri 1/4/08
3	Finalize Scope and Engineering Contract	10 days	Mon 1/7/08	Fri 1/18/08
4	Get DNR Approval of Contract	10 days	Mon 1/21/08	Fri 2/1/08
5	Kickoff Meeting	1 day	Mon 2/4/08	Mon 2/4/08
6	Existing System Inventory	15 days	Tue 2/5/08	Mon 2/25/08
7	Demonstrate Legal Authority	10 days	Tue 2/5/08	Mon 2/18/08
8	Develop Storm Sewer Map	20 days	Tue 2/26/08	Mon 3/24/08
9	Describe Existing Storm Water Programs	20 days	Tue 2/26/08	Mon 3/24/08
10	Evaluate Existing Public Works Facilities	20 days	Tue 3/25/08	Mon 4/21/08
11	Erosion Control and Storm Water Ordinance Review & Updates	20 days	Tue 3/25/08	Mon 4/21/08
12	Develop Public Education and Participation Programs	40 days	Tue 3/25/08	Mon 5/19/08
13	Water Quality Analysis	25 days	Tue 4/22/08	Mon 5/26/08
14	Water Quality Recommendations	40 days	Tue 5/27/08	Mon 7/21/08
15	Develop Illicit Discharge Program and Ordinance	15 days	Tue 3/25/08	Mon 4/14/08
16	Fiscal Analysis	30 days	Tue 7/22/08	Mon 9/1/08
17	Implementation Plan	25 days	Tue 9/2/08	Mon 10/6/08
18	Report and Presentation to Village Board	30 days	Tue 10/7/08	Mon 11/17/08
19	Finalize Project	20 days	Tue 11/18/08	Mon 12/15/08
20	Submit Final Report to DNR	1 day	Tue 12/16/08	Tue 12/16/08



Part II
Question 2. Project Evaluation Strategy

A. Evaluation

The Storm Water Management Plan will demonstrate how implementation of the recommended plan will decrease pollutant loadings to Indian Creek, the Milwaukee River and Lake Michigan and will be submitted to the Department. A copy of the final report demonstrating the positive impact to the local waterways will be provided to DNR.

The tracking strategy for this project seeks to ensure the timely implementation of the recommendations outlined in the Storm Water Management Plan. The implementation of the Plan will be tracked to verify that the Village is following the recommendations of the Plan and is in compliance with their WPDES permit. The Village will submit annual reports to the Department for two years following completion of the study to inform the Department of the schedule and results of all proposed control measures. Items to be tracked include procedures and facilities implemented and their associated costs and measured results during the previous year, anticipating activities to be completed in the upcoming year and any quantitative water quality sampling to demonstrate effectiveness. In summary, the tracking will monitor the Village's progress towards its measurable goals developed as part of the planning effort.

Question 3. Evidence of Local Support

A. Government

A letter from Village President Samuel Dickman demonstrates the Village's commitment to include the local-share portion in its 2008 proposed budget. A copy of the letter is attached to the application.

B. Community

The Storm Water Management Plan has received support from the Friends of the Milwaukee River Group. A copy of the letter of support is attached to the application.

Question 4. Basin Priorities

Storm water discharge within the Village of Bayside flows through multiple 303(d) listed waterways. A portion of the Village's storm water flows east through Fish Creek and into Lake Michigan, and the remaining flow makes its way to Indian Creek, which flows directly into the Milwaukee River. It is important to point out that there are no dams located on Indian Creek between the discharge point located in Bayside and the Milwaukee River. The Milwaukee River, Indian Creek and Lake Michigan are designated by the DNR as 303(d) waterways.

Part III

Question 5. Water Quality Needs

As stated in Part II, Question 4, storm water discharge within the Village of Bayside flows through multiple 303(d) listed waterways. A portion of the Village's storm water flows east through Fish Creek and into Lake Michigan, and the remaining flow makes its way to Indian Creek, which flows directly into the Milwaukee River. There are no dams between the discharge point in Indian Creek in the Village of Bayside and where the Creek meets the Milwaukee River.

Question 7. Plans and Regulations

A. Consistency with resource management plans

The Village of Bayside has adopted a local *Storm Water Management Plan*[1] that identifies several goals and recommends several policies that the proposed storm water management plan will implement. Section II of the plan identifies the following goals and policies that the Village will implement as a part of the proposed storm water management plan:

1. Goal – To provide 100 year flood protection for all residents and structures.
    a. Policy 3 – Require from new developments the construction of detention, retention, aquifer recharge, and water quality type ponds.
2. Goal – To involve the public in the Village's water quality management efforts.
    a. Policy 1 – The Village will develop a public information and education program to promote the reduction of phosphorous and pollutant loadings to waterbodies.
3. Goal – To prevent hazardous and other wastes from entering the stormwater drainage system.
    a. Policy 1 – The Village will prohibit the unnatural discharge of foreign material into the stormwater system. Such material shall include but not be limited to waste oil, paint, grass clippings, leaves, household cleaners, lawn fertilizers, and herbicides.
    b. Policy 2 – The Village will develop a spill response program for Village staff to prevent discharge of spilled materials into the storm sewer system. The response program should focus on containing, neutralizing, and properly disposing of spilled materials. The Village's Police Department and Public Works Department, working in conjunction with the Fire Department should have a readily available supply of response material including oil absorbing pads.

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[1] Village of Bayside Stormwater Management Plan: Chapter 2, Pages 7-8

4. Goal – To develop a program to ensure the successful operation of the storm drainage system.
    a. Policy 2 – A street sweeping maintenance program will be developed and implemented for all streets having urban cross sections or curbing.
    b. Policy 3 – Establish and enforce an erosion and sediment control policy.
5. Goal – To promote the reduction of phosphorus and other pollutant loadings to waterbodies by regulation, municipal management activities and public education.
    a. Policy 2 – The Village of Bayside will require erosion and sediment control on all construction sites.

The Southeastern Wisconsin Regional Planning Commission (SEWRPC) is in the process of completing *A Regional Water Quality Management Plan Update for the Greater Milwaukee Watersheds*[2]. This plan is still in draft form, but SEWRPC did allow the Village to cite some components of the plan that they will be implementing as a part of this grant application. As a part of the proposed storm water management plan the Village will explore the following recommendations from the Water Quality Management Plan:

1. Via an ordinance, the Village may require new development to prepare and/or implement nutrient management plans.
2. Explore the following recommended urban nonpoint source pollution control measures:
    a. Implementation of the nonagricultural (urban) performance standards of Chapter NR 151.
    b. Programs to detect and eliminate illicit discharges and control pathogens that are harmful to human health.
    c. Chloride reduction programs.
    d. Implement fertilizer management programs.
    e. Disconnect residential rooftop drains from sanitary and combined sewers and infiltrate roof runoff.
    f. Manage pet litter.
    g. Beach and riparian litter and debris control.
    h. Marina waste management facilities.
    i. Research and implementation projects.
3. Explore the following recommended water pollution control measures:
    a. Continue collection programs for household hazardous wastes and expand such programs to communities that currently do not have them.
4. Explore the following recommended water quality monitoring measures:
    a. Continue citizen based monitoring effort

[2] SEWRPC Planning Report No. 50. A Regional Water Quality Management Plan Update for the Greater Milwaukee Watersheds. Chapter X, Table X-2. Preliminary Draft. 2007.

Optional Additional Information

Additional Information on Storm Water Management Plan Activities

The Village of Bayside is requesting technical assistance for the following activities:

- **Existing System Inventory.** Define all basins and sub-basins within the study area based upon existing 1" = 200' scale topographic maps. The sub-basins shall be delineated to represent areas draining to major outfalls and as needed to evaluate the adequacy of existing and future system components.

  Characterize the climate of the study area including temperature, precipitation, snow cover and frost depth.

  Map and characterize the soils within the study area. This will include general soil properties in each sub-basin, and the areas covered by each of these groups.

  Define, map, and characterize wetland and other environmentally sensitive locations within the study area based upon available information.

  Identify and define historic local water quality problems within the study area based upon information provided by Village staff and officials.

- **Demonstrate Adequate Legal Authority.** Research existing legal constraints, institutional agreements and ordinances that may impact storm water drainage and nonpoint source pollution controls within the study area. Propose ordinance changes to provide adequate legal authority to implement the recommended storm water management plan and meet the requirements of NR 216.

- **Develop a Storm Water System Map.** Develop a storm sewer system map based upon existing digital storm sewer, cadastral, and land use and topographical maps to meet the requirements of NR 216. Identify watershed boundaries, storm sewers, ditches, swales and other conveyance or storage components. Identify the final urban storm water planning area. List and locate all known municipal storm water outfalls discharging to waters of the state and classify the outfalls as major or minor. Locate and describe currently operating or closed municipal landfills, WPDES permit holders, storm water structural controls and publicly owned parks, recreational areas and other open lands.

- **Describe Existing Management Programs.** Describe existing management programs to control pollutants from municipal separate storm water systems.

- **Discharge Characterization.** Provide a characterization of the quality and quantity of storm water runoff and the effect this runoff has on receiving bodies of water based on existing data and conditions. The characterization will meet the requirements of NR 216 and will include monthly mean rain and snowfall estimates, frost depth, location and description of land use activities including runoff coefficients and population densities, projected 10-year population growth, existing qualitative discharge data, and a list of receiving water bodies with known water quality impacts.

- **SLAMM Analysis.** Utilizing the WDNR Source Loading and Management Model (SLAMM), calculate annual pollutant loadings within the study area in accordance with NR 151, NR 216 and the Village's WPDES permit. Provide calculations under existing and fully developed land use for the following pollutants: total suspended solids, total phosphorus, cadmium, copper, lead, and zinc. Also, calculate total suspended solids reduction under existing land uses with no storm water controls, existing controls, and examine alternatives to reach 20% and 40% sediment reduction goals.

- **Water Quality Improvements.** Recommend both structural and non-structural best management practices to improve water quality and meet the requirements of NR 151, NR 216 and the Village's WPDES permit. Recommendations are expected to include structural practices, implementation of construction and post construction best management practices, implementation of construction and post construction ordinances, development of information and education programs and improvements to municipal projects and procedures designed to improve water quality.

- **Illicit Discharge Program.** Develop an illicit discharge and elimination program and ordinance to meet the requirements of NR 216 and the Village's WPDES permit.

- **Public Education and Participation Program.** Develop a public education and participation program to involve the community in improving the quality of the local waterways in accordance with the Village WPDES permit. Anticipated activities may include direct mailings, demonstration project, partnerships with local environmental and/or youth groups, storm clean up days, guest speaking engagements at local schools and many other activities.

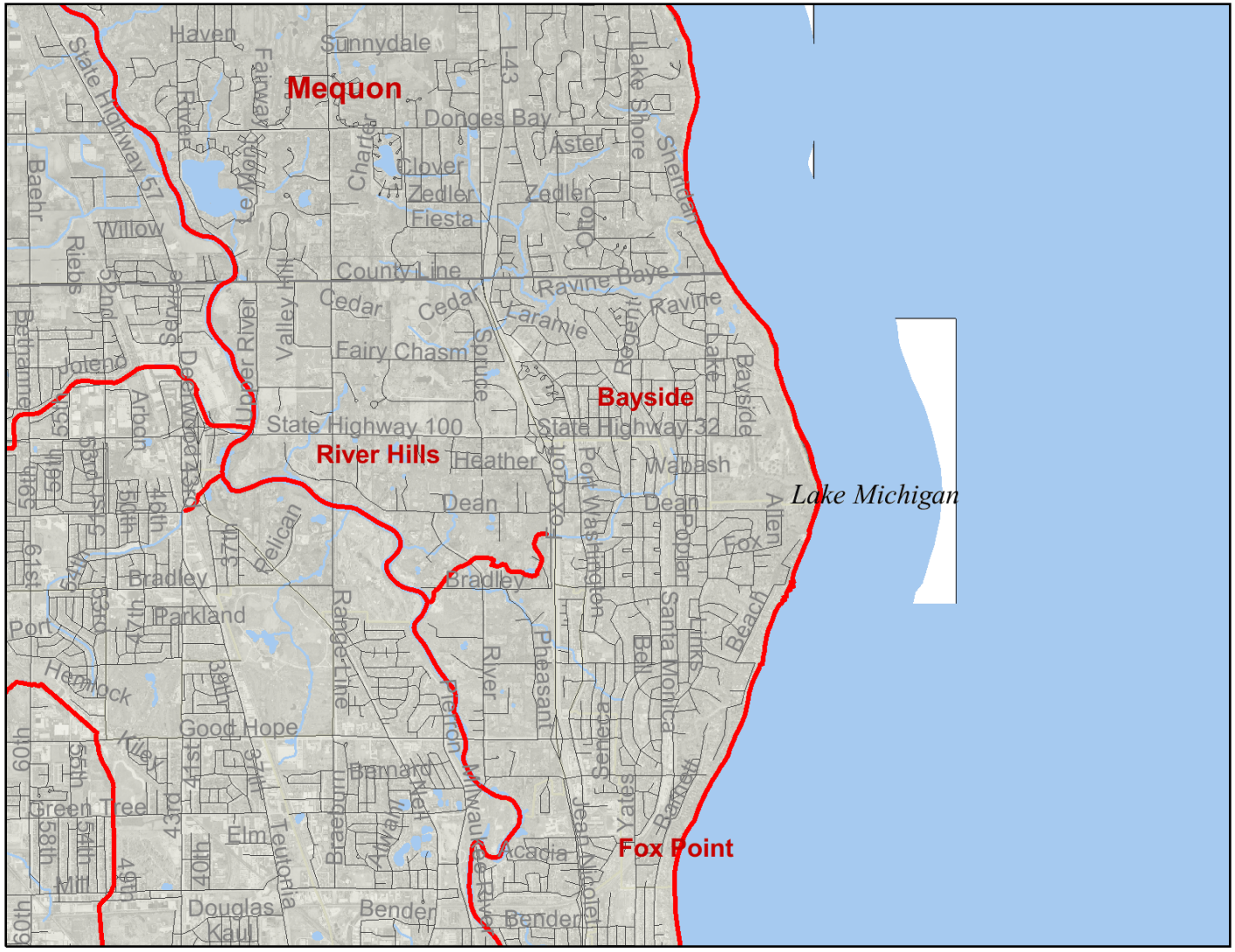
- **Evaluate Existing Public Works Facilities.** Conduct an evaluation of existing public works facilities, programs and procedures for impacts on water quality. Include a review of the current deicing management, street sweeping, facility maintenance, spill response, development review, and associated programs.

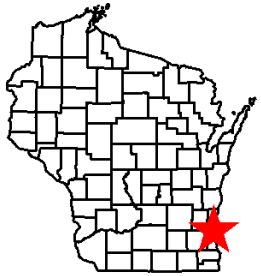
- **Fiscal Analysis.** Conduct a fiscal analysis of the estimated capital and operation and maintenance expenditures to implement the proposed management programs. Describe potential funding sources, including a storm water utility and outline potential annual budgets.

- **Implementation Plan**. Develop an implementation plan to construct the recommended improvements within a specified schedule.

- **Report.** The consultant will prepare a written report summarizing the findings and recommendations of the study. Village staff will review the report and revisions will be made as necessary. Following the approval of the report by Village staff, the consultant will make a presentation of the study findings to the Village Board.

Village of Bayside Storm Water Management Plan





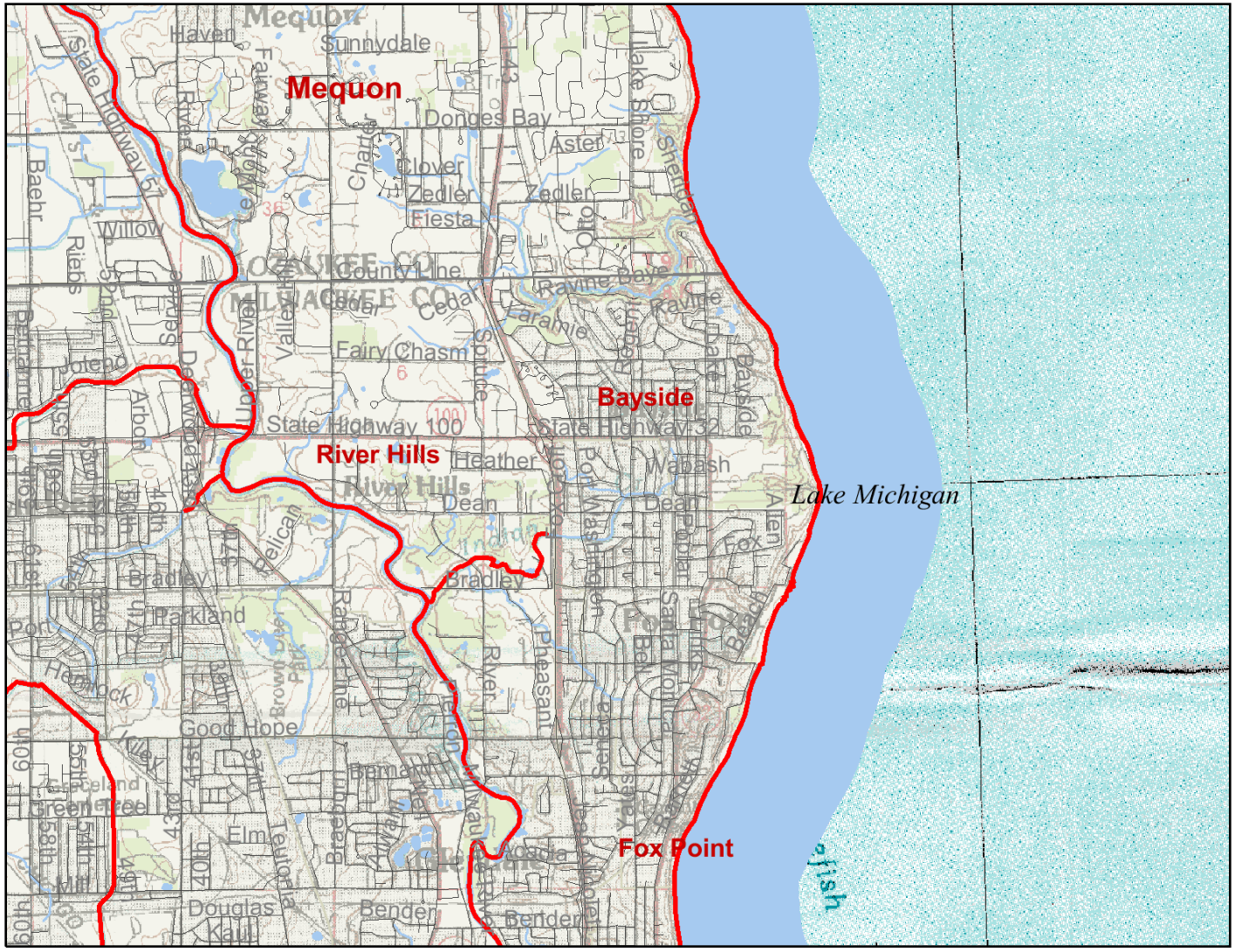
Legend

- Impaired Waters Lines
- Impaired Waters Areas
- 24K County Boundaries
- Local Roads
- Civil Towns
- Civil Town
- 24K Open Water
- 24K Rivers and Shorelines
- Cities and Villages
- Village
- City

N

Scale: 1:70,560

Village of Bayside Storm Water Management Plan



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Legend

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Scale: 1:70,560

VILLAGE OF BAYSIDE

April 9, 2007

Susan Eichelkraut
State of Wisconsin DNR
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

Dear Ms. Eichelkraut,

Recently The Village of Bayside directed their Engineering Consultant Ruekert & Mielke, to apply for a State of Wisconsin Department of Natural Resources -Urban Nonpoint Source and Storm Water Planning Grant. The Village's intention for application is to pursue shared funding for a Storm Water Feasibility Study. The Village of Bayside foresees it as essential to take the lead in protecting two natural resources namely, Lake Michigan and the Milwaukee River. These natural resources ultimately accept storm water flows from properties throughout the Village.

The Village expects to prepare new and update existing comprehensive storm water management initiatives. Seeking outside financing capital is fiscally responsible. If approved by the DNR, the grant provides opportunity for partnership, committing the Village to include the local-share portion in the Village's 2008 proposed budget process.

On behalf of all Village of Bayside residents, thank you in advance for your favorable consideration of our application.

Sincerely,

Samuel Dickman
Village President

9075 North Regent Road • Bayside, Wisconsin 53217-1800 • Phone (414) 351-8811 • FAX (414) 351-8819

Schlitz Audubon Nature Center

April 11, 2007

Ms. Susan Eichelkraut
State of Wisconsin DNR
2300 N. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

Dear Ms. Eichelkraut:

The Schlitz Audubon Nature Center supports the Village of Bayside's endeavor to initiate a Storm Water Feasibility Study. As you are already aware, a good percentage of storm water flows from properties throughout the Village and empties into the Milwaukee River. Part of the mission of the Schlitz Audubon Nature Center is to protect and improve water quality within Milwaukee's river systems.

The Village's application to the State for grant funding is viewed as a first step in achieving common goals for the protection of our ever more important natural resources. It is very appropriate that the Wisconsin DNR, the Village of Bayside and the Schlitz Audubon Nature Center express shared views from different perspectives pooling varied recourses.

It is hoped that you will approve the Village of Bayside's application for the Wisconsin DNR Urban Nonpoint Source and Storm Water Planning Grant. As stated prior, we commend and support the Village in updating and developing a new comprehensive storm water management plan.

Thank you to the Wisconsin DNR for including in your application the opportunity for groups such as ours to voice our opinion and work with our local governments.

Sincerely,

Elizabeth Cheek
Executive Director

1111 E. Brown Deer Rd. Milwaukee, WI 53217 / 414.352.2880 fax 414.352.6091 / www.SANC.org

Friends of Milwaukee's Rivers

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WATERKEEPER ALLIANCE member

April 11, 2007

Susan Eichelkraut
State of Wisconsin DNR
2300 N. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

Dear Ms. Eichelkraut,

On behalf of Friends of Milwaukee's Rivers, I am writing to support the Village of Bayside endeavor to initiate a Storm Water Feasibility Study. Storm water runoff is one of the largest sources of pollutants of our state's waterways. In Bayside, storm water runs off from properties throughout the Village and empties into the Milwaukee River, contributing to water quality and quantity problems. Friends of Milwaukee's Rivers supports efforts to protect and improve water quality within Milwaukee's river systems. This feasibility study represents an important element in Bayside's ongoing commitment of working towards the protection and improvement of local creeks, such as Indian Creek, and the Milwaukee River.

The Village's application to the State DNR for grant funding is viewed as a first step in achieving our common goals for the protection of our natural resources, downstream communities, and our quality of life. An effective storm water feasibility study must explore ways to meet the community's need for managing runoff while maintaining a healthy freshwater ecological system. It is very encouraging that the Wisconsin DNR, the Village of Bayside and Friends of Milwaukee's Rivers all express shared views from different perspectives to pool resources, and work together on protecting our water resources.

Friends of Milwaukee's Rivers supports the Village of Bayside's application for the Wisconsin DNR Urban Nonpoint Source and Storm Water Planning Grant. We look forward to working with Bayside as it continues to update and develop a comprehensive storm water management plan to manage storm water tributary to the Milwaukee River, and ultimately, Lake Michigan.

Thank-you to the Wisconsin DNR for including in your application, the opportunity for groups such as ours to voice our opinion and work with our local governments to protect our rivers.

Sincerely,

Cheryl Nenn
Milwaukee Riverkeeper