

**Urban Nonpoint Source & Storm Water (UNPS&SW) Program
Planning Grant Application**

Form 8700-299A (R 1/15)

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Notice: This application form template was created by the Wisconsin Department of Natural Resources. 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 Chapters NR 151, 154, and 155, Wis. Adm. Code. Collection of this information is authorized under the authority of s. 281.66, Wis. Stats. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31 - 19.39, Wis. Stats.]. *Unless otherwise noted, all citations refer to Wisconsin Administrative Code.*

Please read the [instructions](#) prior to completion of this form. Complete all sections as applicable. Tab to each section or click in answer spaces.

Applicant Information

Calendar Year of Grant Start 2016

Project Name

City of Watertown Erosion Control and Storm Water Ordinances Update

Applicant (governmental unit applying; name and type, e.g. Wausau, City; Randall, Town; Waunakee, Village)

Watertown, City

Name of Government Official - Authorized Signatory (First Last)

John David

Title

Mayor

Area Code + Phone Number

(920) 262-4000

E-Mail Address

johnd@cityofwatertown.org

Mailing Address - Street or PO Box

106 Jones Street, P.O. Box 477

City

Watertown

State

WI

ZIP Code

53094

Name of Government Official - Grant Contact Person (First Last)

Jacob Maas

Title

Zoning Administrator/Grant Writer

Area Code + Phone Number

(920) 262-4041

E-Mail Address

jacobm@cityofwatertown.org

Mailing Address - Street or PO Box

106 Jones Street, P.O. Box 477

City

Watertown

State

WI

ZIP Code

53094

Project Information

A. Location of Project

County

Jefferson

State Senate District number:

13

State Assembly District number:

37

Minor Civil Division
(city, town, village, e.g.,
Wrightstown, Village of)

Township
(N)

Range

E or W

Section

Quarter

Quarter-
Quarter

Latitude (North, 4 to
7 decimal places)

Longitude (West, 4 to
7 decimal places)

Watertown, City

08

N

15

E

43.192778

-88.7275

Watertown, City

09

N

15

E

43.192778

-88.7275

N

W

Method for Determining Latitude & Longitude (check one)

- ☐ GPS ☒ DNR Surface Water Data Viewer (<http://dnrm.wi.gov/SL/?Viewer=SWDV>)
☐ Other (specify):

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B. Project Summary and Description. Use this space for the project summary and description, not an attachment.

Mention every activity being proposed in Part II; Question 1.

The City of Watertown is looking to update our erosion control and storm water ordinances. The erosion control and storm water management ordinances are to match NR 151 and NR 216 no later than May 1, 2016. The updates would include improving our internal permit process and developer's agreement language. In conjunction the City of Watertown would look to develop storm water pollution prevention plans for the public works site, recycling yard, refine our illicit discharge program with the grant.

C. Watershed, Waterbody and Pollutants (see Attachment A and <http://dnrmaps.wi.gov/SL/?Viewer=SWDV>).

Note: Planning areas may encompass several square miles and may affect multiple watersheds.

Watershed Name	Watershed Code	12-digit Hydrologic Unit Code (HUC)	% of Project Area	Nearest Waterbody Name
Sinissippi Lake	UR01	070900010608	31	Rock River
Middle Rock River	UR08	070900011103	62	Rock River
Johnson Creek	UR07	070900011101	7	Johnson Creek

Nonpoint Source Pollutant(s) Controlled by the Project

☒ Nutrients ☒ Sediment ☒ Other, specify: Heavy Metals

Part I. Screening Requirements

A. Maps and Photographs

Yes

☐ An 8.5" x 11" map from the DNR data/map viewers, showing the project area, is attached (link to <http://dnrmaps.wi.gov/SL/?Viewer=SWDV>).

☒ Aerial photo maps and project area photos are also included.

B. Filters Note: The applicant must be able to check "Yes" to questions 1 through 8 below to be eligible for a grant. Check "Yes" to question 9, if applicable.

Yes

- ☒ 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) the non-agricultural performance standards under ch. NR 151 (see Attachment D).
- ☒ 6. The local DNR District Nonpoint Source Coordinator has been contacted and the project was discussed. See contacts at: <http://dnr.wi.gov/topic/nonpoint/NPScontacts.html>.

Name of the District Nonpoint Source Coordinator Contacted	Date Contacted	Subject of Contact
Mike Gilbertson	04/13/2015	Erosion Control and Storm Water Ordinances Update

- ☒ 7. The applicant can declare that **one** of the two statements below is TRUE.
- ☒ a. Statement A: The grant application is for a local governmental unit that has 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.)
 - ☐ b. Statement B: The applicant does not have jurisdiction over the project area; however conditions "i" and "ii" or "i" and "iii" are met
 - ☐ i. The applicant is required to obtain a permit under subchapter I. of ch. NR 216; **and**
 - ☐ ii. In addition, Inter-Governmental Agreements (IGAs) are in place,
 - ☐ iii. **or**, will be put in place prior to the commencement of the grant period, to assure urban best management practices included on the grant are installed and maintained (see [Attachment G](#)).
- ☒ 8. The applicant can declare that **one** of the two statements below is TRUE.
- ☒ a. Statement A: The applicant is not the University of Wisconsin Board of Regents.
 - ☐ b. 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:
 - ☐ i. The municipality is required to obtain a municipal storm water permit under ch. NR 216 **and**
 - ☐ ii. 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.
- ☐ 9. This application is a joint application among local units of government, and
- ☐ If yes, the required Inter-Governmental Agreement (maybe a DRAFT) is attached (see [Attachment G](#)).

If the applicant answered "No" to any of the items in 1-8, above, stop here. This project is ineligible.

Part II. Competitive Elements

Question 1. Project Activities and Extent of Pollutant Control

A project can consist of one or more of the following planning activity categories (A through F). For each category below, check the boxes that describe the work products which will be produced under **this** grant. **Do not check boxes based on prior work.**

A. Ordinance Preparation

Develop New Update Existing The project is to develop or update one or more of the following ordinances (must be the applying Governmental Unit's 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 ss. NR 151.12, NR 151.121-128, and NR 151.241-249.
(See NR 151 at: http://docs.legis.wi.gov/code/admin_code/nr/100/151.pdf#page=1.)
- ☐ ☒ 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 s. NR 151.14.

B. Financing Mechanisms

Develop New Update Existing 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

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C. Storm Water Plan for Developed Urban Areas (includes redevelopment)

Develop Update The project is to develop or update a storm water management plan for developed urban areas, including
New Existing redevelopment, which addresses all applicable performance standards under NR 151 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 Development

Develop Update The project will develop or update a storm water management plan for new development that addresses all of the
New Existing performance standards under ss. NR 151.12, NR 151.121-128, and NR 151.241-249, 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.

E. Comprehensive Storm Water Information and Education Program

- ☐ Check this box if the project will develop and/or implement a comprehensive storm water information and education program.
Note: This category may **not** be checked if any boxes in categories A through D, above, have been checked.
Information and education activities are expected to be included as necessary components of projects under categories A through D.

F. Inter-Municipal and Watershed-based Cooperation (bonus)

- ☐ Check this box if this project is being conducted as part of an inter-governmental storm water management strategy for a common water resource. This also includes entering into a Watershed-based Storm Water Management Permit with other municipalities.

Note: If more than one local unit of government is joining in this project application (a "joint application"), then an Inter-Governmental Agreement (IGA) meeting the requirements of Attachment G must be submitted with this application.

Provide a description of the inter-governmental effort that will be used to complete the project.

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Question 2. Fiscal Accountability

A. Timeline and Source of Staff

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

Milestone	Target Completion Date (month/year)	Source(s) of Staff
Basic Milestones		
Prepare preliminary scope of services and discuss with DNR NPS Coordinator	1/2016	Consulting Engineer & City Staff
Prepare Request for Proposal		
Select Consultant	1/2016	City Staff
Finalize Scope of Service and Professional Services Contract	1/2016	Consulting Engineer & City Staff
Get DNR approval of Professional Services Contract	1/2016	Consulting Engineer, City Staff & DNR Staff
Hold "kick-off" meeting	2/2016	Consulting Engineer, City Staff & DNR Staff
Interim meeting with DNR	3/2016	Consulting Engineer, City Staff & DNR Staff
Presentation to Municipal Council	8/2016	Consulting Engineer & City Staff
Submit project and final report to DNR	10/2016	Consulting Engineer
Additional Milestones (list below)		
Ordinance interim meeting	02/2016	Consulting Engineer, City Staff & DNR Staff
Ordinance presented to Municipal Council	04/2016	Consulting Engineer & City Staff

B. Adequate Financial Budget

Provide detailed budget information for every proposed project activity in Question 1. and supporting activities for which DNR funding is requested. Please note: the state share may not exceed 70% of eligible costs. The grant amount is capped at \$85,000 for the eligible planning activities.

B.1. Financial Budget Table - Planning Activities

[illegible]

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1. Total	40,000	40,000
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B.1. (continued) Cost Sharing Worksheet

Eligible Costs:

2. 70% of Column C Total Row 1 above	\$	28,000
Cap Test:		
3. Maximum State Share Row 2 or \$85,000, whichever is less	\$	28,000
State and Local Share:		
4. Requested State Share Amount (Enter Requested Grant Amount)		27,999
5. Local Share Amount (Total of Row 1 Column B less Row 4)	\$	12,001

B.2. Use of Additional Funding

☒ Check this box if both of the following conditions are met.

- The requested state share amount in row 4 is less than the \$85,000 grant cap.
- The requested state share amount in row 4 is below the maximum state-share in row 3.
(The resulting cost-share rate is less than 70%.)

B.3. Cost Estimate Quality Describe the quality of cost estimates including 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. Provide documentation.

The cost estimate was derived from our consulting engineer on the City of Watertown's Storm Water Quality Master Plan.

Identify the source of the local share:

The local share would come from the 2016 Storm Sewer Utility Budget.

Question 3. Project Evaluation Strategy

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 the 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. Information that tracks progress in carrying out recommendations of this project will be provided to the Department for one or two years after the project is completed. Specify if it is going to be one or two years that tracking information will be provided and describe how this annual post-project tracking process will work:

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Question 4. Water Quality Needs

The project must be consistent with at least one of the following seven watershed priorities. 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 District NPS Coordinator may be used to identify the water quality need.

Percent of Project Area (Total should equal 100%)	Surface Water Considerations
<input checked="" type="checkbox"/>	<p>A. Clean Water Act section 303(d) List of Impaired Waters 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 is nonpoint source pollution and this project will reduce the type of nonpoint pollutants for which the water is listed (see Attachment A and http://dnrm.wi.gov/SL/?Viewer=SWDV).</p> <p>Name of Applicable Impaired Water: Rock River & Johnson Creek</p> <p>Name of Pollutant Causing Impairment: Total Phosphorus, Sediment/Total Suspended Solids</p>
<input type="checkbox"/>	<p>B. Outstanding or Exceptional Resource Waters or Other Areas of Special Natural Resource Interest Prevention of degradation due to nonpoint sources of outstanding resource waters (ORW) (per s. NR 102.10) or exceptional resource waters (ERW) (per s. NR 102.11) or other areas of special natural resource interest (ASNRI). To locate ORW/ERW and other ASNRI's see Attachment A and go to DNR's Surface Water Data Viewer Designated Waters Theme at http://dnrm.wi.gov/SL/Viewer.html?Viewer=SWDV&runWorkflow=DesignatedWaters.</p> <p>Name of Applicable ORW/ERW or ASNRI:</p>
<input type="checkbox"/>	<p>C. Not Fully Supporting Uses or NPS Ranking of High or Medium A water body (lake or stream) identified in a DNR-approved Basin/Watershed Plan as not supporting designated uses due to nonpoint sources, but is not on the section 303(d) List. In newer plans, these waters are categorized as "supporting" (as opposed to "fully supporting") designated uses; in plans prior to 2010 they were labeled as "partially meeting" designated uses. Or, the project is located in 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.</p>
<input type="checkbox"/>	<p>D. Surface Water Quality Prevention of degradation of surface water quality due to nonpoint sources</p>
<input type="checkbox"/>	<p>Groundwater Considerations For assistance with this section, please consult the DNR District Drinking Water and Groundwater Specialist at: http://dnr.wi.gov/topic/drinkingWater/documents/CountyContacts.pdf or the County Extension office.</p>
<input type="checkbox"/>	<p>E. Exceeds Groundwater Enforcement Standard Groundwater within the project area where representative information indicates that stormwater pollutants in groundwater exceed the Enforcement Standard (ES).</p>
<input type="checkbox"/>	<p>F. Exceeds Groundwater Preventive Action Limit Groundwater within the project area where representative information indicates that storm water pollutants in groundwater exceed the Preventative Action Limit (PAL).</p>
<input type="checkbox"/>	<p>G. Groundwater Quality (see Attachment F) The project area is within a geological area defined in Attachment F as susceptible to groundwater contamination.</p>
Total:	
100	

Drinking Water Bonus Points (see Attachment E)

- Yes ☐ Check this box if the project water quality goals identified above relate to the reduction of nonpoint source contaminants in community or non-community public drinking water supplies. This includes any of the following: Municipal supplies governed by chs. NR 809 and 811; Other-Than-Municipal (OTM) water supplies governed by chs. NR 809 and 811; Non-Transient water supplies governed by chs. NR 809 and 811; Transient water supplies governed by chs. NR 809 and 812.
1. If "Yes," and you checked boxes E, F, or G, above, then mark a, b, or c, below and move on to question 6.
(You will need assistance from your DNR District NPS Coordinator at <http://dnr.wi.gov/topic/nonpoint/NPSContacts.html> or Water Supply Specialist at <http://dnr.wi.gov/topic/drinkingWater/documents/CountyContacts.pdf> to answer.)
- ☐ a. Check this box if the project is located: within the wellhead protection area of a municipal well; or within 1,200 feet of a municipal well for which a wellhead protection area is not delineated; or within 1,200 feet of an Other-Than-Municipal (OTM) water supply well; or within 1,200 feet of a Non-Transient water supply well.
- ☐ b. Check this box if the project is located within 200 feet of a Transient water supply well.
- ☐ c. Check this box if **neither** a nor b applies
2. If "Yes," and you checked box **A, B, or C or D** above, then place a check mark next to the appropriate drainage area where the project is located. If the project is in more than one drainage area, enter the appropriate percentages in the boxes provided. (See Attachment E.)

Source Water Drainage Area	Portion of Project in Assessment Area (%)
<input type="checkbox"/> Pike River and Creek	<input type="text"/>
<input type="checkbox"/> Root River	<input type="text"/>
<input type="checkbox"/> Oak Creek	<input type="text"/>
<input type="checkbox"/> Milwaukee River	<input type="text"/>
<input type="checkbox"/> Sauk Creek	<input type="text"/>
<input type="checkbox"/> Sheboygan and Onion Rivers	<input type="text"/>
<input type="checkbox"/> Manitowoc River	<input type="text"/>
<input type="checkbox"/> Twin Rivers	<input type="text"/>
<input type="checkbox"/> Kewaunee and Ahnapee Rivers	<input type="text"/>
<input type="checkbox"/> Menominee River	<input type="text"/>
<input type="checkbox"/> Fish Creek	<input type="text"/>
<input type="checkbox"/> St. Louis and Nemadji Rivers	<input type="text"/>
<input type="checkbox"/> Lake Winnebago	<input type="text"/>

Question 5. Evidence of Local Support

For A. and B., check the applicable situation that exists at the time of application. Submit supporting information and documentation with the application.

A. Government

- ☐ 1. The local-share funds for this project's expenses are already included specifically in an **adopted** budget.
- ☐ Evidence of the adopted budget is included with the application submittal.
Describe the document and list date of adoption:
- ☒ 2. The local-share funds for the project expenses are or will be included in a **proposed** budget.

- ☐ Evidence of the proposed budget is included with the application submittal.
Describe the document and list date for adoption;
The City of Watertown will submit their proposed 2016 budget in August of 2015, and will be adopted in November of 2015.

B. Community Supporting information must be submitted with the application.

- ☒ 1. There is local community support from community stakeholders specifically for the project.
- ☒ a. There is local support from citizen groups.
 - ☒ b. There is local support from municipal committees or councils representing the applicant.
- ☐ 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.
- ☐ a. There is general support from citizen groups.
 - ☐ b. There is general support from municipal committees or councils representing the applicant.

Question 6. Plans and Regulations

A. Consistency With Resource Management Plans

- ☒ Check this box if the proposed project focuses on plans to implement a water quality recommendation from a locally-approved resource management plan. Examples include Smart Growth plans, Legacy Community plans, Water Star plans, local Storm Water Management plans, wellhead protection, lake management, regional water quality plans, Remedial Action plans and other watershed-based nonpoint source control plans.
(This question does not include a TMDL report, TMDL implementation plan, or County Land and Water Resource Management Plan.)

If Yes, summarize the water quality recommendation and describe how it relates to the goals of this proposed project. Cite the title, author and date(s) of publication of the resource management plan. Attach pertinent page(s) or provide URL and page numbers.

From the December 2014 City of Watertown's Storm Water Quality Master Plan (Ruekert-Mielke):
The City of Watertown is required to update their erosion control and storm water management ordinances to match NR 151 and NR 216 no later than May 1, 2016. The City of Watertown is looking to consider modifications to their ordinances beyond what is required by WDNR.

Under our MS4 permit compliance the city looks to develop and illicit discharge detection and elimination program to locate and remove illegal connections to the City's storm sewer water system. Under this section the City of Watertown also is looking to develop a storm water pollution prevention plan for municipally owned property.

B. Supporting Regulations

Check the box for the statement(s) that applies to this project. The project is located within an area which has:

- ☒ 1. The applicant (applying governmental unit) has regulations in place to administer and enforce construction erosion controls in the governmental unit that are consistent with the non-agricultural performance standards in s. NR 151.11 Include the web site where the regulation can be found (most direct web page URL) and page number(s).
http://www.ci.watertown.wi.us/document_center/Chapter_20.pdf (pages 45-73)
- ☐ Or check the box if a copy of the regulation is attached to this application.
- ☒ 2. The applicant (applying governmental unit) has regulations in place to administer and enforce post-construction runoff for areas of new development and redevelopment in the governmental unit consistent with the non-agricultural performance standards in s. NR 151.12.
Include the web site where the regulation can be found (most direct web page URL) and page number(s).
http://www.ci.watertown.wi.us/document_center/Chapter_33.pdf

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Part III. 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)

- ☐ 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 tracking storm water permitting activity (construction and post-construction) in the governmental unit and can make summary information available to the DNR upon request.
- N/A
- ☐ ☐ C. The governmental unit is implementing a nutrient management plan for municipally-owned properties of pervious area where nutrients are applied.

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.

Municipal Resolution: The city of Watertown Common Council is scheduled to approve the Governmental Responsibility Resolution on May 5, 2015. The signed resolution will then be submitted via email after it is ratified by the Common Council.

Applicant Certification

A Responsible Governmental Official (authorized signatory) must sign and date the application form prior to submittal to the DNR. The governmental official with signatory authority must be the person authorized by the Governmental Responsibility Resolution. I certify that, to the best of my knowledge, the information contained in this application and attachments is correct and true.

Signature of Government Official - Authorized Signatory

Date Signed

Name (Please Print)

John David

Title

Mayor

4-15-2015

- ☐ Check this box if the required, completed Governmental Responsibility Resolution (GRR) (see [Attachment H](#)) is attached. Authorized signatory must be approved in the GRR.

Submittal Directions

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

- One hard copy of the completed application form [DNR Form 8700-299A (R 1/15) with original signature in blue ink and all attachments.
- Three additional hard copies of the completed, signed application form and all attachments.
- One electronic copy of the completed application form (this saved application form) in **PDF format only** plus all attachments on CD.

All application materials must be postmarked by midnight **April 15 of the same calendar year**.

Mail to: State of Wisconsin
Runoff Management Section-WT/3
Department of Natural Resources
101 South Webster Street
Madison, WI 53703

PO Box 7921
or Madison WI 53707-7921

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All application materials must be postmarked by midnight **April 15 of the same calendar year.**

Mail to: State of Wisconsin
Runoff Management Section-WT/3
Department of Natural Resources
101 South Webster Street
Madison, WI 53703

PO Box 7921
or Madison WI 53707-7921

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Please use this page to write any constructive comment(s) you might have to improve this application.

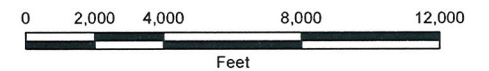
Thank you.




Storm Water Management System Planning Area
Exhibit 1

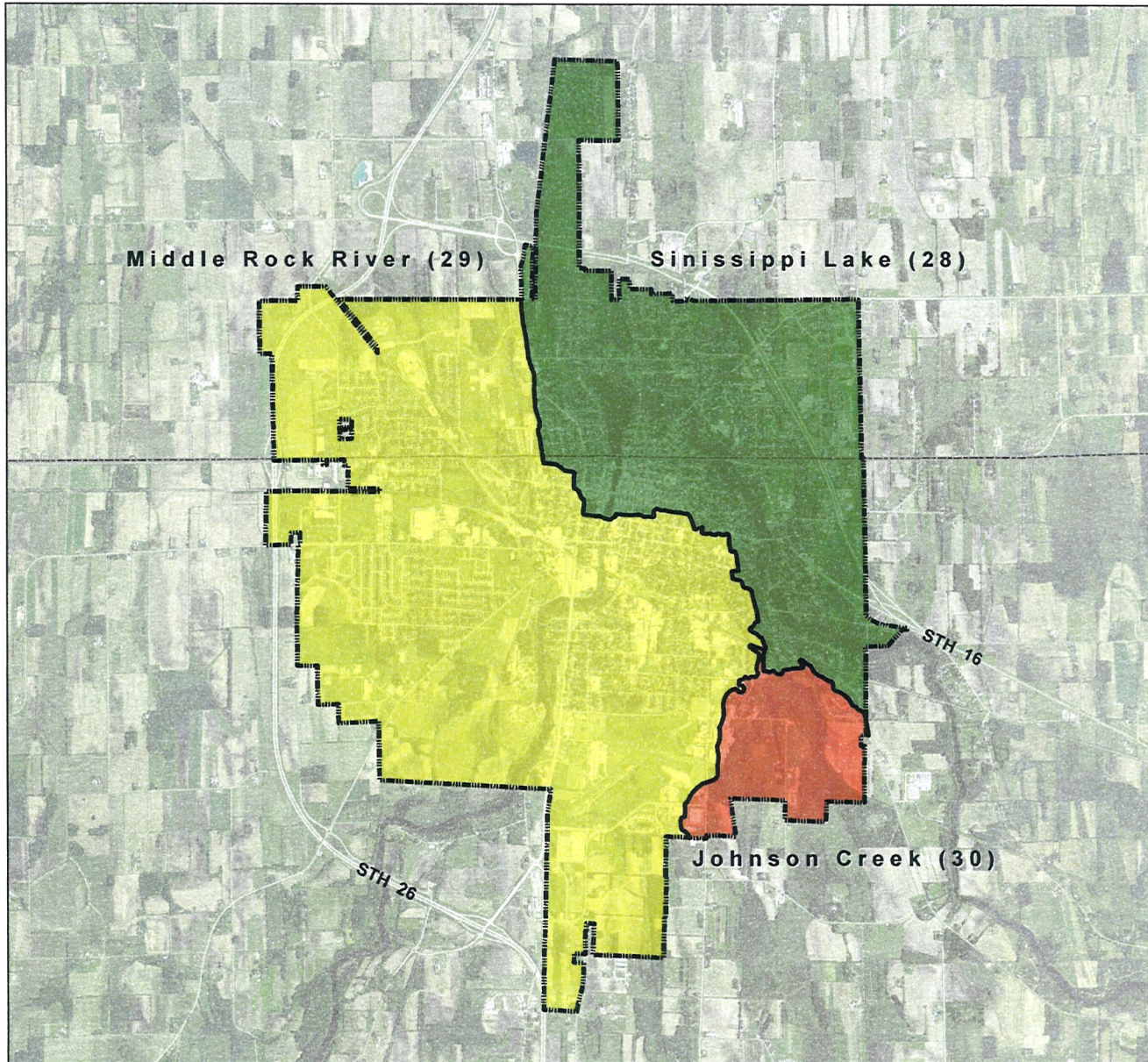
Legend

-  Sinissippi Lake Reachshed (28)
-  Middle Rock River Reachshed (29)
-  Johnson Creek Reachshed (30)
-  Watertown Boundary - City Limits
-  Reachshed Boundary



Date: December 2014

 Ruekert Mielke



Storm Water Ordinance Updates

As part of their MS4 storm water discharge permit, the City of Watertown is required to update their erosion control and storm water management ordinances to match NR 151 and NR 216 no later than May 1, 2016. To help move the City closer to compliance with the TMDL pollutant allocations, it is recommended that the City consider modifications to their ordinances beyond what is required by WDNR.

The densely developed urban sections of the City of Watertown have seen a recent uptick in redevelopment. It can be reasonably assumed that 0.5% of each reachshed will redevelop in any given year. With the City's current storm water ordinance requiring 40% sediment control during all significant redevelopments, redevelopment activities may be expected to improve sediment loadings by approximately 0.20% annually. The City's current ordinance is silent on phosphorous control for redevelopment scenarios. To maximize the potential water quality benefits of this development activity, the following modifications should be considered:

- Require that redevelopment sites provide 80% sediment control and 50% phosphorous control on the entire redevelopment site. This potential change may be expected to improve sediment loadings by approximately 0.40% annually and phosphorous loadings by approximately 0.25% annually. While there would be no direct cost to the City for these modifications, the more stringent ordinances would increase developer costs and likely dissuade certain redevelopment activities.
- Require that new development sites provide 90% sediment control and 40% to 60% phosphorous control.

Water Quality Trading and Adaptive Management

Although a detailed analysis of pollutant trading and adaptive management was beyond the scope of this planning effort, it is recommended that the City investigate the applicability of both potential compliance options.

It should be noted that the Watertown Wastewater Treatment Facility (WWTF) has preliminarily indicated that they may have excess pollutant credit available, allowing them to more easily meet their NR 217 phosphorous limits and/or their TMDL allocations. As a component of compliance, it will likely be desirable to work with the WWTF to ascertain the availability of potential pollutant credits.

Maintenance of Storm Water Quality Control Facilities

The City of Watertown is required to develop an inventory of each post-construction storm water management facility within the City and then complete annual inspections of each facility, including any required maintenance thereafter. If these inspections are not completed and the performance of the facilities verified, the City may stand to lose the pollutant reduction credit from the corresponding facilities, necessitating the need for construction of additional facilities to meet the sediment reduction permit requirements. Ruekert & Mielke completed initial inspections of the City's storm water facilities in November of 2008.

Most of the City's residential storm water facilities are located on outlots controlled by homeowner's associations and in common ownership with all subdivision property owners. The City of Watertown will need to determine whether maintenance responsibilities will remain with

the homeowners associations or if the City will take them over. If the associations remain in control, a significant amount of staff time will be expended coordinating and enforcing maintenance activities and there will be little assurance maintenance will be done uniformly or correctly throughout the City. Most of the City's commercial, industrial and institutional storm water facilities are located on land owned by the respective business owners and would face a similar decision.

For all storm water quality facilities, it is recommended that the City begin determination of which facilities hold valid maintenance agreements. Once this is understood, City staff can begin working with property owners to facilitate completion of the required maintenance activities until the above issue is resolved.

MS4 Permit Compliance

- Continue the existing public and City staff education, outreach and involvement programs to increase the awareness of storm water impacts on waters of the state. Measureable goals must be established, tracked and evaluated and the program must comply with at least the 8 specific requirements listed in the MS4 permit.
 - This program is ongoing with review and modifications at least once per year.
- Develop an illicit discharge detection and elimination program to locate and remove illegal connections to the City's storm sewer system. At a minimum, this program must include on-going dry weather field screening at all priority outfalls at least once per year, dry weather field screening at all other major (non-priority) outfalls at least once every five years, subsequent follow-up investigations if discharge is present, including removal of illicit connections and enforcement of the City's illicit discharge ordinance.
 - This program is ongoing. Modifications will be made as needed to complete priority outfall inspections every year and major, non-priority outfall inspections every five years.
- Enforce the City's construction site pollutant control ordinance, including plan review, permit issuance, compliance inspections and enforcement actions.
 - This program is ongoing. Updates will need to be made to the City's erosion control ordinance by May 1, 2016 to match recent changes to Chapters NR 151 and NR 216 of the Wisconsin Administrative Code.
- Enforce the City's post-construction storm water management ordinance, including plan review, maintenance inspections and enforcement actions.
 - This program is ongoing. Updates will need to be made to the City's storm water management ordinance by May 1, 2016 to match recent changes to Chapters NR 151 and NR 216 of the Wisconsin Administrative Code.
- Develop a pollution prevention program, including measureable goals, which includes the following:
 - Develop an inventory of all City owned or operated storm water management facilities.

- Complete routine inspections (including any required maintenance) of each storm water management facility owned or operated by the City to maintain their pollutant removal operating efficiency.
- Complete routine catch basin cleaning and street sweeping, including proper disposal. This plan may be modified if supported by further analysis and approved by the Department.
- Revise the winter road deicing management plan to include contact information, truck routes, equipment descriptions, disposal locations, anti-icing and deicing strategies and actions, and monthly records of product used and weather data prior to March 31, 2016.
- Proper collection and disposal of leaves, brush and grass clippings.
- Develop a storm water pollution prevention plan for municipal garages, storage areas and other municipally-owned sources of storm water pollution prior to March 31, 2016. Complete annual full inspections of these facilities thereafter.
- Development of site-specific nutrient application schedules for fertilizer applications on any City-controlled properties with more than 5 acres of pervious surface.
- Consideration of environmentally sensitive land development designs for municipal projects, including green infrastructure and low impact development.
- Implement and maintain storm water management practices that were in place on or before July 1, 2011 to achieve a reduction in total suspended solids of at least 20%.
 - This program is ongoing.
- Maintain an updated storm sewer system map.
 - This program is ongoing.
- Complete an annual report evaluating the various storm water programs, documenting compliance with measureable goals and recommending program modifications.
 - Due March 31 of each year.

Plan Costs

The recommended storm water system plan for the City of Watertown has an estimated capital cost of \$13.05 million, an increase in annual operation and maintenance costs of \$117,560 and an increase in annual street sweeping costs of \$324,000. Cost estimates for each recommended improvement are provided in the Appendix.

Jacob Maas

From: Wurster, Steven <swurster@ruekert-mielke.com>
Sent: Wednesday, April 15, 2015 3:26 PM
To: Jacob Maas
Cc: Jaynellen Holloway; Rick Schultz
Subject: RE: UNPS&SW Planning Grant

Hi Jacob,

The cost to update your erosion control and storm water ordinances is about \$5,000 on the low end to \$10,000 if you want to also include updates to things like your internal permit process, developer's agreement language, etc. Since the grant is strictly based on the point scoring (and not the amount of funding requested), I'd request \$10,000-\$20,000 for this part of the work to make sure that we're able to update all your internal processes in addition to the ordinances.

You could also include development of storm water pollution prevention plans for the public works site, recycling yard, etc and/or refinement of your illicit discharge program with the grant application. If you choose to include that work (which I'd recommend, as both tasks will be required by DNR in the next couple years), you'd probably want to add another \$15,000-\$20,000 to the requested grant amount.

Let me know if you need anything else,
Steve

From: Jacob Maas [mailto:JacobM@CityofWatertown.org]
Sent: Wednesday, April 15, 2015 1:26 PM
To: Wurster, Steven
Cc: Jaynellen Holloway; Rick Schultz
Subject: UNPS&SW Planning Grant

Steve,

The only area that I am having difficulty completing is page 5 (Question 2, A & B1). I don't have a good estimation of costs and timelines for code revisions.

Jacob A. Maas
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