

**2008 (Due by March 31, 2009)**

**For the Cities of Fitchburg, Madison, Middleton, Monona, Sun Prairie, and Verona; the Villages of DeForest, Maple Bluff, McFarland, Shorewood Hills, and Waunakee; the Towns of Blooming Grove, Burke, Madison, Middleton, Westport, and Windsor; Dane County; and the University of Wisconsin – Madison**

This document is for the purpose of annual reporting on activities undertaken pursuant to WPDES Permit No. WI-S058416-2 for the above listed municipalities. An owner or operator of a municipal separate storm sewer system covered by a municipal storm water discharge permit under Chapter NR 216, Wis. Adm. Code, is required to submit an annual report to the Department of Natural Resources by March 31 of each year to report on activities for the previous calendar year. Information in the annual report will be used by the Department of Natural Resources to assist with assessing permit compliance. Use of this specific form is optional. The Department of Natural Resources has created this form for the user's convenience and believes that the information requested on this form meets the reporting requirements for an owner or operator of a municipal separate storm sewer system covered by WPDES Permit No. WI-S058416-2. However, an owner or operator of a municipal separate storm sewer system that uses and completes this form will not automatically be deemed to be in compliance with other requirements of WPDES Permit No. WI-S058416-2.

**Complete and submit the annual report by March 31, 2009, to the following address: Storm Water Management Specialist, Wisconsin Dept. of Natural Resources, South Central Region, 3911 Fish Hatchery Rd., Fitchburg, WI 53711**

**I. MUNICIPAL INFORMATION**

Name of municipality Dane County	Contact person and title Susan Jones
Mailing Address Dane County Land and Water Resources Dept. 1 Fen Oak Court Madison, WI 53718	Telephone no. 608/224-3764
	Fax no. 608/224-3774
	E-mail address jones.susan@co.dane.wi.us

Does the municipality have an internet website?     Yes     No  
 If yes, provide internet address:  
[www.countyofdane.com](http://www.countyofdane.com), [www.countyofdane.com/lwrdr](http://www.countyofdane.com/lwrdr)

If the municipality has an internet website, is there current information posted about or links provided to the municipal storm water discharge permit and the municipality's storm water management program?     Yes     No  
 If yes, provide internet address:  
[www.danewaters.com/resource/stormwater.aspx](http://www.danewaters.com/resource/stormwater.aspx)

**II. CERTIFICATION**

*I certify that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of the annual report.*

Authorized representative printed name Kevin Connors	Authorized representative title Director, LWRD
Authorized representative signature	Date signed

**III. GENERAL INFORMATION**

a. Has the municipality made any changes under its legal authority that affects implementation of the requirements of the municipal storm water discharge permit (e.g., changes to ordinances)?  Yes  No  
 If yes, describe the changes in **Appendix A**.

b. List the people who attended quarterly meetings on behalf of the municipality and indicate the quarterly meetings in which the municipality was represented for the reporting year.

<u>Name</u>	<u>Title</u>	<u>Affiliation</u>
Susan Jones	Watershed Mgt Coordinator	LWRD - Office of Lakes & Watersheds
Marcia Hartwig	Public Info Officer	LWRD - Office of Lakes & Watersheds
Jeremy Balousek	Urban Cons. Engineer	LWRD - Land Conservation Division
Joshua Harder	Erosion Control Engineer	LWRD - Land Conservation Division

c. Quarterly meetings represented:  February  May  August  November

d. Describe in **Appendix A** how the municipality internally coordinates implementation of the requirements of the municipal storm water discharge permit between the municipality's agencies, departments, and programs. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

e. Describe in **Appendix A** how elected and municipal officials and appropriate staff are kept apprised of the municipal storm water discharge permit. Provide any documentation on how this was accomplished, such as meeting agendas, minutes, memos, etc.

f. Has the municipality prepared its own municipal-wide storm water management plan?  Yes  No

If yes, date of storm water management plan:

g. Describe in **Appendix A** how the requirements of the municipal storm water discharge permit are incorporated into master planning activities, neighborhood plans, development plans, or other comprehensive planning activities.

**IV. STORM WATER MANAGEMENT PROGRAM**

**a. Public Education and Outreach**

Dane County only:

1. Has any municipality failed to submit its financial contribution in accordance with the *Intergovernmental Agreement to Create and Fund a Position Responsible for Storm Water Management Education and Outreach*?  Yes  No

If yes, list municipalities:

2. Attach in **Appendix B** a copy of the 2009 Information and Education work plan

3. Describe in **Appendix B** the Information and Education plan implementation and activities for the reporting year, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

All municipalities:

4. Describe in **Appendix B** how any materials produced by Dane County on behalf of the municipality have been used and/or distributed. Provide examples.

5. Describe in **Appendix B** any individual information and education activities undertaken for the reporting year, including any materials produced and their distribution. Provide examples. Include an assessment of the effectiveness of reaching targeted audiences and delivery of intended messages.

**b. Public Involvement and Participation**

1. The group permit requires that the information in this annual report be an agenda item for discussion before the appropriate governing board(s) or council(s) contemporaneous with the submittal of the annual report to the Department of Natural Resources. Accordingly, please provide the following information:

2. Name of board(s)/council(s):

Dane County Board of Supervisors

3. Date(s) of meeting(s) to discuss the annual report:

6/19/08

4. Describe in **Appendix B** the opportunities and types of forums for public involvement and participation in permit related activities that occurred during the reporting year. Include an assessment of the effectiveness of efforts to involve the public and the level of participation.

**c. Illicit Discharge Detection and Elimination**

1. Describe in **Appendix B** the illicit discharge detection and elimination program developed to comply with the permit. Include information on the municipality's strategy to prevent, detect, and eliminate all types of illicit discharges; how priorities are established for field screening and the methodologies to be used for field screening; and procedures for responding to and rectifying illicit discharges to the MS4, including spills, improper disposal of waste or dumping. Also include an assessment of the effectiveness of detection and elimination of illicit discharges, prevention of improper disposal of waste and dumping, the handling of spills, and any enforcement efforts involving these activities.

2. Has the municipality performed any field screening for the reporting year?  Yes  No

If yes, please provide documentation in **Appendix B** the results of the field screening.

3. Has the municipality investigated any instances of spills, improper disposal of waste or dumping?  Yes  No

If yes, please provide documentation in **Appendix B** the results of the investigations.

4. Describe in **Appendix B** how the municipality facilitates public reporting of illicit discharges.

**d. Construction Site Pollution Control**

1. Does the municipality notify landowners who apply for local construction or land disturbing permits of the possible applicability of Subchapter III of Chapter NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, to the landowners' construction projects?  Yes  No

If yes, please explain the process for providing this notification. If no, please explain why this notification is not provided.

2. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

3. Describe in **Appendix B** the procedures the municipality employs for the inspection of construction sites and enforcing erosion control standards. Provided documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for a construction site where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

4. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, or equivalent local standards, and the requirements of Subchapter III of Chapter NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, where applicable.

See Appendix B.

5. Include in **Appendix B** an assessment of the municipality's construction site pollution control program effectiveness in meeting the standards of ss. NR 151.11 and 151.23, Wis. Adm. Code, including enforcement efforts.

**e. Post-Construction Site Storm Water Management**

1. Describe in **Appendix B** the procedures the municipality employs to incorporate timely consideration of potential water quality impacts from construction sites and that ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards. Be specific of when in the review and approval process this is done, and how the municipality ensures compliance with the standards.

2. Describe in **Appendix B** the procedures the municipality employs for inspecting the construction and installation of storm water best management practices and enforcement actions to ensure compliance with post-construction storm water management standards. Provided documentation of any enforcement actions taken that resulted in the issuance of a stop work order, citation, or summons for non-compliance with post-construction storm water management standards for sites where one or more acre of land is disturbed. Include the name and address of the landowner, the site name and location, date(s) of violation(s), type of violation(s), and the status of resolution of the enforcement action.

3. List the name, title, address, telephone number, e-mail address, and duties of all persons designated with the responsibility to ensure implementation of the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, or equivalent local standards, and the requirements of Subchapter III of Chapter NR 216, Wis. Adm. Code, *Construction Site Storm Water Discharge Permits*, where applicable.

See Appendix B.

4. Include in **Appendix B** an assessment of the municipality's post-construction site storm water management program effectiveness in meeting the standards of ss. NR 151.12 and 151.24, Wis. Adm. Code, including enforcement efforts.

**f. Municipal Pollution Prevention**

1. List in **Appendix B** an inventory of long-term storm water best management practices owned, operated, managed, or maintained by the municipality. Include storm water basins, infiltration practices, treatment structures, and other practices for long-term water quality treatment. For each best management practice, provided the name, location, type of practice, and any maintenance activities undertaken for the practice during the reporting year. Also in **Appendix B**, provide a description of the maintenance procedures used and schedules for each long-term storm water best management practice and the approximate amount of solids collected (tons or cubic yards) from any structural control receiving maintenance.

2. Does the municipality perform catch basin cleaning?  Yes  No

If yes, approximate amount of solids collected (tons or cubic yards): \_\_\_\_\_. Describe in **Appendix B** the procedures used and schedules for catch basin cleaning. If no, explain:

3. Does the municipality perform street sweeping?  Yes  No

If yes, approximate number of street miles swept: \_\_\_\_\_; approximate amount of solids collected (tons or cubic yards): \_\_\_\_\_. Describe in **Appendix B** the procedures used and schedules for street sweeping. If no street sweeping is performed, explain:

4. Describe in **Appendix B** the municipality's procedures for roadway snow removal and de-icing. Provide information on what practice and procedures the municipality has implemented in consideration of water quality impacts from snow removal and de-icing. Include an estimate of the annual amount of salt and/or sand used for roadway de-icing.

5. Does the municipality haul snow to off-site disposal locations?  Yes  No

If yes, provide in **Appendix B** the location of all off-site snow disposal locations and describe what practices and procedures are used to protect water quality from snow and ice melt from the disposal site.

6. Does the municipality own or operate salt storage facilities?  Yes  No

If yes, provide in **Appendix B** the locations of all salt storage facilities. Are all salt storage facilities managed in accordance with Chapter TRANS 277, Wis. Adm. Code?  Yes  No

7. Does the municipality provide curbside pickup service for leaves, yard waste, and grass clippings?  Yes  No  
If yes, approximate amount of material collected (tons or cubic yards): \_\_\_\_\_
8. Describe in **Appendix B** the municipality's procedures for the collection of leaves, yard waste, and grass clippings, and/or instruction to citizens for on-site management of these items. Provide the location of sites used by the municipality or citizens for the disposal of leaves, yard waste, and grass clippings.
9. Describe in **Appendix B** the municipality's policies and procedures for the use and application of lawn and garden fertilizers on municipally controlled properties. Include information on how these policies and procedures address pollution prevention efforts.
10. Describe in **Appendix B** the municipality's policies and procedures for the use and application pesticides and herbicides on municipally controlled properties. Include information on how these policies and procedures address pollution prevention efforts.
11. Describe in **Appendix B** any local program the municipality employs to regulate the private use of lawn and garden fertilizers, and pesticides and herbicides.
12. Include in **Appendix B** an assessment of the effectiveness of the municipality's pollution prevention efforts through the municipal pollution prevention program.

#### **V. STORM SEWER SYSTEM MAP**

City of Madison only:

- a. Has any municipality failed to submit its hard copy changes for the storm sewer system map by January 31, 2009?  
 Yes  No If yes, list municipalities:

- b. Attach in **Appendix C** a copy of the updated storm sewer system map.

All municipalities:

- c. Has the municipality updated and maintained documentation of all storm sewer outfalls from its MS4 to waters of the state?  
 Yes  No

#### **VI. MONITORING PROGRAM**

City of Madison only:

- a. Has any municipality failed to submit its financial contribution in accordance with the *Intergovernmental Agreement to Fund a Joint Storm Water Monitoring Program through the Scientific Evaluation of rain Gardens*?  Yes  No  
If yes, list municipalities:

- b. Provide in **Appendix D** information on implementation and any results of the group-sponsored rain garden study.

All municipalities:

- c. Provide in **Appendix D** information on any monitoring of storm water or storm water treatment methods that the municipality is involved in outside of the group rain garden study.

#### **VII. ADDITIONAL INFORMATION**

- a. Provide in **Appendix E** a description of any revisions or proposed revisions to any element of the municipality's storm water management program.
- b. Provide in **Appendix E** an updated listing and contact information for any new industrial facilities that may be regulated under Subchapter II of NR 216, Wis. Adm. Code, and that have commenced operation during the reporting year.
- c. Provide in **Appendix E** a summary of any other activities undertaken to comply with the conditions of this permit or other information you feel the Department of Natural Resources should be aware of.

d. Complete the fiscal analysis table provided below.

<b>Program Element</b>	<b>2008 Annual Expenditure</b>	<b>2009 Budget</b>	<b>Source of Funds</b>
<b>Public Education and Outreach</b>	\$ 71,486	75,896	county
<b>Public Involvement and Participation</b>	\$ 31,110	33,906	county
<b>Illicit Discharge Detection and Elimination</b>	NA	na	county
<b>Construction Site Pollution Control</b>	\$ 222,325	229,623	county
<b>Post-Construction Site Storm Water Management</b>	\$ 294,307	125,958	county
<b>Municipal Pollution Prevention</b>	NA	8,000	county

e. What is the overall estimated annual cost to the municipality for compliance with the permit in 2008? > \$ 619,228

f. Has the municipality implemented a storm water utility?  Yes  No, but considering  No, and not considering

If yes, provide a description of the storm water utility in **Appendix E** and any additional information that will assist the Department of Natural Resources in understanding how the utility works in your municipality.

**Appendix A**  
**General Information**

- III.a.**
- III.d.**
- III.e.**
- III.g.**

## **Appendix B**

### **Storm Water Management Program**

**IV.a.2 (Dane Co. only)**

**IV.a.3 (Dane Co. only)**

**IV.a.4.**

**IV.a.5.**

**IV.b.4.**

**IV.c.1.**

**IV.c.2.**

**IV.c.3.**

**IV.c.4.**

**IV.d.2.**

**IV.d.3.**

**IV.d.5.**

**IV.e.1.**

**IV.e.2.**

**IV.c.4.**

**IV.f.1.**

**IV.f.2.**

**IV.f.3.**

**IV.f.4.**

**IV.f.5.**

**IV.f.6.**

**IV.f.8.**

**IV.f.9.**

**IV.f.10.**

**IV.f.11.**

**IV.f.12.**

**Appendix C**  
**Storm Sewer System Map**  
**V.b. (City of Madison only)**

**Appendix D**  
**Monitoring Program**  
**VI.b. (City of Madison only)**  
**VI.c.**

**Appendix E**  
**Additional Information**

**VII.a.**

**VII.b.**

**VII.c.**

**VII.f.**

## Appendix A

### III. General Information

**NOTE: Dane County's permit obligations are linked to the Alliant Energy Center and Dane County Highway facilities. However, DNR has requested that county staff also report on county-wide stormwater and erosion control programs. Therefore this report reflects a mix of information about facilities covered in the permit and county pollution control activities outside of the central Dane County area of the Madison Area Municipal Storm Water Partnership.**

#### III.a.

No ordinance amendments were adopted in 2008.

#### III.c.

The August quarterly meeting was cancelled.

#### III.d.

- County leadership and coordination is by the Dane County Land and Water Resources Department (LWRD) staff. Staff also coordinated annual reporting requirements with affected Departments.
- Coordination of county stormwater and erosion control minimum standards occurs through meetings of relevant county staff, primarily through the Urban Staff Meetings of the Land Conservation Division, Dane County LWRD. All aspects of the Erosion Control and Stormwater Management permitting program were transferred to LWRD as of January 1, 2007.
- LWRD stormwater staff team meetings address permit-related work and county-wide stormwater program implementation.
- County staff also are active participants in the MAMSWAP I&E Subcommittee.

#### III.e.

The county's permit requirements and 2008 annual report were discussed as part of Sue Jones' State of the Waters Report to the Dane County Board on June 19, 2008.

#### III.g.

The Dane County Board completed and adopted a comprehensive plan, as defined in WI state statutes, on October 18, 2007 and it went into effect with the County Executive's signature on October 25, 2007. The adopted plan is found on Dane County's comprehensive planning home page: <http://www.co.dane.wi.us/plandev/comprehensiveplan/>.

Dane County's permit specifically applies to county-owned and operated MS4s. Those facilities are not specifically addressed in the county comprehensive planning process. However, several goals and objectives in the Agricultural, Natural and Cultural Resources portions of the plan address stormwater management. See Chapter 5 of the adopted plan, including the water resources objectives and policies.

## **Appendix B**

### **IV. Storm Water Management Program**

#### **IV.a.2.**

#### **MAMSWAP 2009 I&E WORK PLAN**

##### **Grant Priorities**

1. Develop 2009 fall leaf campaign outreach plan to replace the Community Based Social Marketing program idea as outlined in grant.
2. Conduct evaluation of five-year outreach campaign.
3. Continue radio ad campaign as part of fall leaf campaign.
4. Grant reporting.

##### **Other Priorities in 2009-2013 Plan**

###### **High**

1. Develop 2009-2013 Intergovernmental I&E Agreement for signature by all members.
2. Develop brief audio-visual presentations, displays, etc., that can be shown at meetings.
3. Develop coasters to be delivered to local water-side venues with storm water messages.
4. Annual reporting to DNR.
5. Bill municipalities.
6. Develop 2010 plan.
7. Develop salt and deicing program and/or materials.

###### **Medium**

1. Create resource list for citizens on rain gardens, rain barrels, housekeeping, porous pavement, etc.
2. Provide a resource list for environmental actions (youth, community groups, college).
3. List resources on website.

###### **Ongoing (actions initiated in previous years that require maintenance or updating)**

1. Continue Plant Dane! Cost-Share program.
2. Continue promoting rain barrel programs.
3. Continue to work with the Earth Gauge Partnership.
4. Continue to promote NASECA events.
5. Develop and distribute articles to municipalities for their newsletters.
6. Create and distribute articles for friends groups, community groups and neighborhood association newsletters.
7. Develop presentations (PowerPoint, slides, overheads, etc.) focused on audience interests/concerns.
8. Maintain web site (information and resource lists for environmental actions, link to municipal sites) listing resources.
9. Continue to use existing list serves to disseminate info.
10. Develop and set up displays for fairs, expos, etc.
11. Continue providing organizations and community groups assistance with projects.
12. Continue to promote storm drain stenciling and marking programs.
13. Promote curriculum developed.
14. Maintain distribution lists.
15. Develop, publicize and offer in-house training for building inspectors, contractors and staff.
16. Publicize availability of BMP Manual.

### **IV.a.3.**

#### **I&E Plan Implementation and Activities (on behalf of MAMSWaP communities)**

##### **2009-2013 I&E Plan Development and Intermunicipal Agreement Development**

Worked with I&E Committee to develop the 2009-2013 five-year outreach plan, 2009 work plan and the 2009-2013 Intermunicipal Agreement.

##### **Video**

“Dane Waters: A Reflection of Us All,” which illustrates how storm water impacts our lakes, streams and rivers in the Madison area, and what everyone can do to prevent pollution from reaching these precious resources, continues to be distributed free of charge to municipalities, libraries, local cable access channels, watershed associations/friends groups, schools, partners (DNR, etc.) and more.

##### **Radio Campaign**

For the fourth year of our media campaign, radio ads aired on WMGN-FM (Magic 98), WWQM-FM (Q106), WHLK-FM (The Lake) and WTDY-AM 1670 (The Pulse), all different stations than the first two years of ads. The same 30-second commercials featuring local celebrities Katie Sai, Rocky Rococo, Westside Andy, Karen Johannsen, Coach Bret Bielema, Barry Alvarez, Mike Lekrone and more (recorded in 2007) aired for three weeks in spring and again in fall. The campaign included ads on all of the four stations’ web sites and email “blasts” sent directly to listeners.

##### **Plant Dane!**

There were about the same number of participants in 2008 as 2007 (~25). The mandatory workshop was held on February 9, 2008. Plants were delivered in June. Changes for the program in 2009 to increase participation were discussed.

##### **2008 “Love Your Lakes, Don’t Leaf Them” Campaign**

Press releases regarding the “Love Your Lakes, Don’t Leaf Them” campaign were sent out in conjunction with groups using the signs and brochures in their neighborhoods. While participation from groups involved in the campaign in previous years has dwindled, other neighborhood associations using the signs and brochures. The Office of Lakes and Watersheds also sent out a press release regarding leaves and water quality.

##### **Presentations, Displays**

Presentations are developed/given for groups requesting information on storm water, rain gardens, rain barrels and more. Displays are often set up at these events, at municipal halls and elsewhere. Displays/information were set up for Garden Expo, Canoecopia and Isthmus Green Day.

##### **Salt Use Workshop**

Held in late October, a fee of \$25/person or \$75 for three or more from the same shop was charged. About a third of attendees were from outside of the MAMSWaP area. It was co-sponsored by MAMSWaP, Dane County Lakes and Watershed Commission, and the City of Madison. It was well received and may be repeated in 2009.

### [www.myfairlakes.com](http://www.myfairlakes.com)

Maintained the website, posting information on current programs such as Plant Dane!, workshops for contractors, lawn care professionals, etc. Has many suggestions for what homeowners can do to improve water quality and why, links to other resources, storm water curriculum and provides contact information for the municipalities and storm water education coordinator.

### **MAMSWaP online**

Maintained MAMSWaP web page ([www.danewaters.com/management/mamswap.aspx](http://www.danewaters.com/management/mamswap.aspx)), which links to all 19 municipal entities, has articles for newsletters and local weekly papers, links to myfairlakes.com and elsewhere, has copy of permit, survey results, and more.

### **Articles**

Developed, distributed and made available on the web newsletter articles for newsletters, local weekly papers and other publications.

### **Other**

- 9 Municipal billing; billing cycle changed from May 1-April 30, to May 1-December 31 for 2008 and January 1-December 31 for 2009 and beyond
- 9 began working on survey development (to compare to 2003 survey)
- 9 City of Stoughton joined the group

### **Assessment of Effectiveness**

As funds are available, the MAMSWaP I&E Committee conducts surveys to determine the effectiveness of the program in reaching target audiences and changes in knowledge and behavior that occur in the target audiences. No such survey was conducted in 2008, although planning was initiated for 2009.

#### **IV.a.4. (Dane County implementation)**

- 9 Brochures were distributed at the Garden Expo, Fishing Expo, Canoecopia, Isthmus Green Day, at the Dane County Land & Water Resources Department, Lussier Heritage Center, and various other venues, especially during Dane County Office of Lakes and Watersheds' annual Take a Stake in the Lakes Week. The brochure is also available in PDF format on the myfairlakes.com website.
- 9 Any and all materials developed for MAMSWaP (permit, survey results, etc.) are made available on the website(s).

#### **IV.a.5. (Dane County implementation)**

Dane County Office of Lakes and Watersheds (DCOLW) distributed its "How to Build a Rain Garden" brochure at their annual Better Lawns and Gutters Tour and many other venues. Also distributed were the "You're the Solution to Water Pollution" series to friends groups, at events, front counters, and more. DCOLW also distributed brochures on rain gardens and other pertinent information that was produced by other partners.

Dane County staff give four to five technical stormwater and erosion control presentations per year to various groups, in addition to the one-on-one guidance given to permit applicants about the requirements and benefits of controlling stormwater and construction runoff. Two urban

engineers on the Dane County LCD staff are board members of the Wisconsin chapter of the North American Stormwater and Erosion Control Association (NASECA; <http://www.nasecawi.org/>), and guide the development of technical programs twice a year that are open to municipal staff and consultants serving MAMSWaP communities. LWRD staff also maintain the Dane County Erosion Control and Stormwater Management Manual as a resource for complying with countywide standards. The manual was last updated in 2007.

#### **Assessment of Effectiveness**

Dane County did not have the resources to conduct an effectiveness assessment in 2008.

#### **IV.b.4.**

Public information and outreach activities are described in IV.a.5. There were no specific public involvement activities related to Dane County facility compliance with permit requirements—all of those were internal meetings (see III.d). There were no stormwater and erosion control ordinance amendments in 2008, and therefore no public meetings on ordinance content.

#### **IV.c.1.**

**Illicit discharge** is defined as any discharge to a municipal separate storm sewer (MS4) that is not composed entirely of storm water except discharges authorized by a WPDES permit or other discharge not requiring a WPDES permit such as landscape irrigation, individual residential car washing, fire fighting, diverted stream flows, uncontaminated groundwater infiltration, uncontaminated pumped groundwater, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, lawn watering, flows from riparian habitats and wetlands, and similar discharges.

**Storm sewer maps** for the Alliant Energy Center and Highway Department were reviewed in 2005 for potential cross connections of sanitary and storm sewers. This review and additional field investigations determined that there were no visible cross connections. Manhole locations were noted as were outfalls for field screening activities. The AEC map is a CAD file and provides adequate detail. To date, maps for the County Highway facility have not been updated.

**Field screening** for illicit discharges may occur two times per year on county facilities covered by this permit. These investigations will be done during dry weather periods (at least 72 hours after a measurable rainfall event of 0.1 inches or more). The inspection shall be recorded on the Visual Inspection Form (see below). Should the sampling crew identify a potential source, page two of the form shall be filled out immediately. In the event of a spill or discharge on county-owned property, the Illicit Discharge Notification Form (also included below) shall be filled out as well. Highway personnel are also encouraged to examine outfalls during their routine maintenance activities on roads maintained in the centralized urban area covered by this permit. As part of tracking requirements, the Visual Inspection Form shall be filled out and be made available to the Land Conservation Division for NR 216 reporting requirements.

In the event that the crew identifies the presence of a flow, the following procedures will occur:

1. Follow the storm drain system upstream to the next available manhole/location to isolate the area contributing the flow.
2. Make an attempt to determine the source of the flow.

3. If the source of the flow is determined to originate on the county facility, complete the Illicit Discharge Notification Form.
4. If the source of the flow cannot be determined, notify the Land and Water Resources Department (LWRD).

**Spills, dumping, or improper disposal** of wastes into the storm sewer shall be investigated and reported on the Illicit Discharge Notification Form. The appropriate actions identified in the Department spill response plan shall also be adhered to. In the event that a spill poses an imminent threat to receiving waters, notify the LWRD staff immediately.

Section 41.80(4) Dane County Code of Ordinances prohibits placement of any hazardous wastes or any toxic waste on any lands designated as a county owned or operated landfill site, unless prior written permission is obtained from the Committee.

**Educational training** on the Illicit Discharge Detection and Elimination strategy occurs on an annual basis or as determined by the designated county department staff. Pamela Dunphy, P.E., Assistant Highway Commissioner and Greggar Petersen are the contacts for the Dane County Highway and Transportation Department. Kevin Gould, AEC Manager is the contact for the Alliant Energy Center.

**VISUAL INSPECTION FORM  
 FOR ILLICIT DISCHARGE INSPECTIONS OF STORMSEWERS AND OUTFALLS**

**Dane County Highway and Transportation Facility: Fish Hatchery Road/City of Sun Prairie**  
 (Please circle appropriate facility)

**Dane County Alliant Energy Center**

**Name of Staff Person Performing the Inspection:** \_\_\_\_\_

**Date test is performed:** \_\_\_\_\_

**Date of last rainfall:** \_\_\_\_\_

**Amount of last rainfall:** \_\_\_\_\_ in.

**Field Screening Form**

Storm Sewer/Outfall Location	Pipe Size	Drainage Area	Receiving Waterbody	Notes/Observations

For any storm sewer/outfall that is active or has flow present, please complete the following:

Water Depth in pipe:    ft.

Total Depth (from water surface to pipe invert): ft.

Flow Velocity:    ft./sec.

Ambient Temperature:    °F

Water Temperature:    °F

pH: \_\_\_\_\_

Color:  Clear     Yellow     Grey     Brown     Green      
Other   

Turbidity:  Clear     Slightly Cloudy     Cloudy     Opaque

Surface Sheen:  None     Oil     Gasoline     Scum     Unknown

Odor:  None     Oil     Paint     SO<sub>2</sub>  Fuel  
 Sewage     Decaying Vegetation     Unknown

Additional Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please contact Pete Jopke in the LWRD at 224-3733 or [jopke@co.dane.wi.us](mailto:jopke@co.dane.wi.us) upon completing this form.

## Illicit Discharge Notification Form

### For use by the Dane County Highway and Transportation Department and the Dane County Alliant Energy Center

This form is to be completed by the investigating Department as a follow-up to any illicit discharge that is detected.

Notifying Entity: <input type="checkbox"/> Highway & Transportation: Fish Hatchery Road/Sun Prairie <input type="checkbox"/> Alliant Energy Center <input type="checkbox"/> Other ( <i>please specify</i> )
Details of Discharge:
Action Taken:
Proposed Corrective Measures:
Additional Comments:

Please submit form to the Land & Water Resource Department, 1 Fen Oak Ct. Room 208.  
Questions can be directed to Pete Jopke at 224-3733.

Completed By: \_\_\_\_\_ Date: \_\_\_\_\_

Name and Title: \_\_\_\_\_  
(*please print*)

**IV.c.3.**

No such occurrences were reported to LWRD in 2008.

**IV.c.4.**

All spills are to be reported to the Dane County LWRD. Please see section c.1. above.

**IV.d.1.**

Applicants are notified verbally if sites disturb more than one acre and they are given the proper contact at DNR for more information. In addition, the county enforces standards more restrictive or equivalent to NR 216 through the Dane County Erosion Control and Stormwater Management Ordinance.

**IV.d.2.**

Prior to any land disturbance occurring on a site subject to NR 151, an erosion control permit is required. This permit is applied for and reviewed at the Dane County Land Conservation Division (LCD). The Land Conservation Division comments on any plan deficiencies and works with the applicant to ensure that all standards are being met. Once the LCD is confident the requirements have been addressed, a review letter is drafted identifying the permit conditions. An erosion control permit is then issued, which must be posted on the project site.

**IV.d.3.**

The Land Conservation Division enforces the county's erosion control permits. In 2008, 4810 site inspections were conducted resulting in the issuance of 38 enforcement actions (stop-work orders and citations), including referrals to corporation counsel for erosion control violations countywide. Several were NR 216 permitted sites. For specific information on sites, please contact the Land Conservation Division.

**IV.d.4.**

- 9 Jeremy Balousek, Urban Conservation Engineer, 5201 Fen Oak Drive, 224-3747, [balousek@countyofdane.com](mailto:balousek@countyofdane.com), Plan review, inspection, technical support
- 9 Josh Harder, Erosion Control Engineer, 5201 Fen Oak Drive, 224-3748, [harder@countyofdane.com](mailto:harder@countyofdane.com), Plan review, inspection, technical support
- 9 Ryan Shore, Urban Erosion Control Analyst, 5201 Fen Oak Drive, 224-3738, [shore@countyofdane.com](mailto:shore@countyofdane.com), Plan review, inspection, technical support
- 9 Susan Jones, Watershed Management Coordinator, 5201 Fen Oak Drive, 224-3764, [jones.susan@countyofdane.com](mailto:jones.susan@countyofdane.com), Ordinance coordination and administration, staff to the Dane County Lakes and Watershed Commission
- 9 Jessica Starks, Erosion Control Specialist, 5201 Fen Oak Drive, 224-3647, [starks@countyofdane.com](mailto:starks@countyofdane.com), Plan review, Ordinance enforcement
- 9 Jason Tuggle, Erosion Control Specialist, 5201 Fen Oak Drive, 224-3735, [tuggle.jason@countyofdane.com](mailto:tuggle.jason@countyofdane.com), Plan review, Ordinance enforcement
- 9 Angela Mayr, Conservation Specialist, 5201 Fen Oak Drive, 224-3737, [mayr@countyofdane.com](mailto:mayr@countyofdane.com), Plan review, Ordinance Enforcement

**IV.d.5.**

One hundred percent of erosion control plans meet the requirements of NR 151. Implementation and maintenance drop off significantly as a function of the amount of enforcement time that is available. For enforcement efforts, please see d.(3) above.

**IV.e.1.**

Process is the same as d.(1) above.

**IV.e.2.**

Process is the same as d.(3) above, although the stormwater inspection is typically the last erosion control inspection. In 2008, 4810 site inspections were conducted resulting in the issuance of 38 enforcement actions (stop-work orders and citations), including referrals to corporation counsel for erosion control violations countywide. Several were NR 216 permitted sites. For specific information on sites, please contact the Land Conservation Division.

**IV.e.3.**

Same staff and duties as in d.(4) above.

**IV.e.4.**

Since October of 2004 the county has been enforcing all of the requirements of NR 216. Compliance with the county's standards is very good and is improving as more emphasis is being placed on site inspections and technical assistance.

**IV.f.1.**

**Pollution Prevention Policy and Management For Dane County Facilities**

**Pollution Prevention**-Source reduction and other practices that reduce or eliminate the creation of pollutants.

The two county facilities covered by this permit are:

**Dane County Highway Garage-Fish Hatchery Road Site**

This site serves as the central operations unit for various satellite locations throughout Dane County.

**Alliant Energy Center (AEC)**

There are over 500 events held at the Alliant Energy Center every year, attracting approximately one million visitors. The center consists of multiple venues with the main buildings being the Veterans Memorial Coliseum and the Exhibition Hall.

**Stormwater BMPs/Management**

Overall, operations at all facilities appear to meet the general requirements for pollution prevention per NR 216 requirements. Staff from the Land Conservation Division and the affected entities continue to address runoff concerns and coordinate on annual reporting requirements. In 2008, a sediment basin was designed for the area between the cattle barns and presented to AEC staff for construction consideration.

Dane County Highway and Transportation construction and maintenance projects follow best management practices and are permitted through the following agencies as appropriate: Dane County Land Conservation, Wisconsin DNR, and US Army Corps of Engineers.

Highway equipment purchases include specifications for pollution control devices and staff applies yearly for upgrades to these devices through state and federal grants. In the past, Highway received grant funding to add upgraded and innovative pollution control devices on its equipment.

Field crews who maintain the roadways also collect trash and other debris on a routine basis. The material is brought back to the Highway Garage site and placed in collection facilities for disposal in the landfill. The amount of trash collected from the county highways is not quantified.

Vehicle maintenance procedures are performed at the Fish Hatchery Road site. All waste fluids are placed in a double-walled containment facility. There are no other materials onsite in quantities that would require hazardous material handling/storage certification.

The Dane County/City of Madison recycling and drop-off center is located on the north end of the Fish Hatchery property. The facility is monitored via a security camera and is secured via a chain link fence. Hours for drop off are posted at the site in addition to a sign referencing Chapter 41 Dane County Code of Ordinances relating to illegal dumping.

The AEC grounds and associated parking lots are swept frequently and after each event. The solids and trash are land-filled. Manure collected during events involving animals is collected and placed in dumpsters where it is also landfilled.

AEC fleet maintenance is performed onsite. Waste fluids are disposed of onsite in a collection facility. This facility will be upgraded to a double walled tank as soon as budget considerations allow.

Various hazardous materials are used at AEC but the majority are considered household type and are kept in small quantities. There is an ammonia plant, which requires an EPCRA plan.

#### **IV.f.2.**

Various maintenance is performed at a few locations on the AEC grounds after each event. Most material is considered to be trash with limited amount of solids.

#### **IV.f.3.**

Street sweeping is done on the Beltline Hwy. Spring and fall collection is performed by a private contractor. Street sweeping occurs up to two times per year (spring/fall) on the major highways located within the centralized urban area covered by this permit. This activity is contracted out to Columbia County. The collected material is hauled to the Dane County Landfill. Sweeping is also conducted at the garage site on a periodic basis. State Highway sweeping includes Beltline to Middleton to I 39/90, USH 18/151-Midvale Blvd to CTH PD, USH 14-Badger Road to McCoy Road, STH 30-Packers Ave. to I39/90, USH 51-McFarland to I39/90/94, USH 151 East Springs Drive to Sun Prairie, and I39/90-USH 12/18 to STH 30 (median wall). County Highway

sweeping includes CTH MC Beltline to Wingra Creek, CTH MM-CTH MC to USH 14, CTH D-Wingra Creek to Lacy Road, and CTH PD-CTH D to Nesbit Road. An estimated 50 tons of refuse and 8,000 cubic yards of solids was collected and disposed of at Rodefild Landfill.

**IV.f.4.**

Roadway snow removal and salting result in approximately 65,682 tons being used **county-wide** from January 1, 2008 through December 31, 2008. 167,753 gallons of salt brine were used during that same period.

The county tracks salt usage and reports it annually. NOTE-Salt usage within the urbanized areas is not calculated. All rates/tons used are reported as a county-wide use. Salt applications are computer-calibrated to minimize overuse.

**IV.f.5.**

On occasion snow will be hauled offsite from the Fish Hatchery site. The material is hauled to Aces Pit located on Storytown Road ¼ mile south of Lincoln Road in the Town of Oregon. On occasion, snow may also be hauled to the Badger Salt Shed site at 3650 CTH T when removed from USH 51.

Highway staff maintain a 200-foot-wide grass filter strip around the snow piles.

**IV.f.6**

Salt is stored at the following sites around the county. All sites have salt stored undercover and are managed according to Trans 277 Wis. Adm. Code.

<b>Madison</b> 2302 Fish Hatchery Rd Madison, WI 53713	<b>Mt. Horeb</b> 9932 USH 18/151 Bus. Mount Horeb, WI 53572	<b>Stoughton</b> 2520 CTH B Stoughton, WI 53589
<b>Springfield</b> 6159 USH 12 53529 Dane, WI 53529	<b>Cross Plains</b> 4537 CTH P Cross Plains, WI	<b>River Road Shed</b> 4587 STH 19 DeForest, WI 53532
<b>Siggelkow Shed</b> 2831 USH 12 McFarland, WI 53558	<b>Badger Shed</b> 3650 CTH T Madison, WI 53596	<b>York Shed – CTH V</b> 1274 Greenway Rd Columbus Wi 53925

**IV.f.7.**

N/A

**IV.f.8.**

N/A

**IV.f.9.**

The county complies with the county-wide ordinance (Ch. 80, Dane County Code of Ordinances) banning unnecessary use of phosphorus in lawn fertilizer. Nitrogen-based pellets are used as a fertilizer at AEC.

**IV.f.10.**

Herbicides are used in limited quantities on the AEC grounds. Annual training is provided for the groundskeeper and all manufacturers' instruction for use and disposal are followed. Herbicides are used to control weed and grasses on the paved areas.

There is limited use of pesticides or herbicides to control vegetation that has been cut by the Dane County Highway and Transportation Department. Department staff responsible for this work have been trained and taken the licensure test.

Of note is also a county-wide policy: Dane County Parks' Integrated Pesticide Management Plan (available from Parks staff).

**IV.f.11.**

See IV.f.9 and 10.

**IV.f.12.**

See IV.f.1.

**V.c. (storm sewer outfall documentation)**

LWRD has documentation for the Highway Garage and AEC storm sewer systems, and they are maintained by other county staff. A CAD specialist at Dane County Public Works keeps the official records.

**Appendix C**  
**Mapping – City of Madison only**

**Appendix D**  
**Monitoring Program**

**VI.c.**

None.

**Appendix E**  
**Additional Information**

**VII.a.**

No modifications to the county's erosion control and stormwater management program were completed in 2008.

**VII.b.**

None.

**VII.c.**

None.

**VII.d.**

For Highway and Transportation, pollution control is not a separately budgeted item but is included in overall project and equipment budgets.