

**2006 (Due by March 31, 2007)**

**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, 2007, 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 County of Dane	Contact person and title Sue Jones, Watershed Management Coordinator
Mailing Address Dane County LWRD One Fen Oak Ct., Room 234 Madison, WI 53718-8812	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

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/management/mamswap.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 LWRD Director
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>
Sue Jones	Watershed Management Coor	Dane County LWRD/OLW
Marcia Hartwig	MAMSWaP SWEC/OLW PIO	Dane County LWRD/OLW

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 2007 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:

June 15, 2006 SEE ATTACH I

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.

see attached

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.

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 attached

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:

None performed in 2006

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:

See appendix B

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, 2007?  
 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>2006 Annual Expenditure</b>	<b>2007 Budget</b>	<b>Source of Funds</b>
<b>Public Education and Outreach</b>	\$60,379	\$113,940	
<b>Public Involvement and Participation</b>	included above	included above	
<b>Illicit Discharge Detection and Elimination</b>	\$1,400	\$8,500	
<b>Construction Site Pollution Control</b>	\$81,490	\$174,450	
<b>Post-Construction Site Storm Water Management</b>	\$103,404	\$109,500	
<b>Municipal Pollution Prevention</b>	\$1,400	\$12,500	

e. What is the overall estimated annual cost to the municipality for compliance with the permit in 2006? \$248,073

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

#### III.a.

Dane County adopted revisions to Dane County Code of Ordinances Chapter 14 (Erosion Control and Stormwater Management) and Chapter 11 (Shoreland Zoning) during 2006. The complete revised ordinances are available at [www.countyofdane.com/ord/dcord.htm](http://www.countyofdane.com/ord/dcord.htm).

One set of ordinance amendments dealt with stormwater infiltration (see s. 14.51(2)(e)). There is an increasing concern in our rapidly-developing county that more paved surfaces prevent adequate infiltration and groundwater recharge, resulting in increased runoff and risks of property damage from flooding.

To address this concern, the Dane County Lakes and Watershed Commission created the Stormwater Infiltration Task Force to evaluate the merits of various infiltration approaches. The Task Force also included representatives from the Madison Area Builders' Association, Veridian Homes, developers' engineers, watershed groups, UW Soils and Engineering faculty, the City of Madison, and the Dane County Land Conservation Division. The Task Force unanimously agreed on several recommendations for improving infiltration standards, practices, monitoring, and enforcement. Its final report is available at [www.danewaters.com/resource/stormwater.aspx](http://www.danewaters.com/resource/stormwater.aspx)

An amendment to county stormwater infiltration standards went into effect on September 1, 2006 to implement the first of these recommendations. As a result, there are no longer caps on the sizes of infiltration practices to meet the ordinance requirements. In place of the caps, designers may show that 100% of the predevelopment recharge is maintained. This means that the same amount of precipitation that made its way to the groundwater before development is maintained.

The other amendments transferred all erosion control and stormwater management (including shoreland zoning erosion control requirements in s. 11.05 Dane County Code of Ordinances) program administration was transfer to the LWRD. In the past duties had been split between the LWRD and the Department of Planning and Development. Several new forms and resource materials are also available at [www.danewaters.com/resource/stormwater.aspx](http://www.danewaters.com/resource/stormwater.aspx) as a result of this program change. These materials include a completely revised and updated version of the Dane County Erosion Control and Stormwater Management Manual.

#### III.d.

- County leadership and coordination is by the Dane County Land and Water Resources Department. Department staff held several meetings with other affected departments (Highway and Transportation and Alliant Energy Center) during 2006, including on-site visits. 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, for example Department of Land and Water Resources staff met with zoning inspectors (Department of Planning and Development) at their regular staff meetings in 2006 (for 2007 and into the future, Department of Planning and Development staff are no longer involved, due to the program transfer described in IIIa). Department of Land and Water Resources staff worked with the Lakes and Watershed Commission and other County Board committees to adopt the amendments described in IIIa.
- Department of Land and Water Resources stormwater staff team meetings address permit-related work and county-wide stormwater program implementation.

\*This draft work plan has not yet been reviewed nor approved by the MAMSWaP I&E Committee.

- County staff also are active participants in the MAMSWAP I&E Subcommittee.

### **III.e.**

Several meetings of county committees and commissions were related to work done for the MAMSWAP permit. The County Board acted on ordinance revisions to Ch. 14 and 11 in August and December 2006 (see attached minutes). These amendments were also approved by the Environment, Agriculture and Natural Resources Committee (OA 4, OA 23, OA 24), the Lakes and Watershed Commission (OA 4), Public Protection and Judiciary Committee (OA 23, OA 24), and the Zoning and Land Regulations Committee (OA 23, OA 24).

The County's permit requirements and 2005 annual report were discussed as part of Sue Jones' State of the Waters Report to the County Board on June 15, 2006 (meeting minutes excerpt attached).

### **III.g.**

The Dane County Board agreed to complete and adopt a comprehensive plan, [as defined in WI state statutes](#), by May of 2006. Dane County has not yet completed the plan. Dane County's comprehensive planning home page is <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 current the draft Chapter 5 of the plan, including the water resources objectives and policies at: [http://www.daneplan.org/pdf/draftplan/ancr/2006/20060628\\_ancr\\_ch5.pdf](http://www.daneplan.org/pdf/draftplan/ancr/2006/20060628_ancr_ch5.pdf)

## Appendix B

### IV. Storm Water Management Program

#### IV.a.2.

## MAMSWAP 2007 I&E WORK PLAN

### *DRAFT\**

#### PREVIOUSLY IDENTIFIED PRIORITIES

##### High

Plan Item #	Action	Cost/Funding Source
68	Develop brief audio-visual presentations, displays, etc., that can be shown at meetings	program budget
72	Develop 08 work plan	Program budget

##### Medium

Plan Item #	Action	Cost/Funding Source
5	Develop alternative method to reach college students	urban grant, UW, Edgewood, MATC, program budget
6	Create resource list for citizens on rain gardens, rain barrels, housekeeping, porous pavement, etc.	salary, printing/base program budget
8	Provide a resource list for environmental actions (youth, community groups, college)	program budget
13	Develop speakers' bureau and method to promote it	program budget
49	Develop website listing resources (see Action #36)	program budget
58	Maintain website listing resources	program budget
60	Create and provide focused presentations	program budget, county and municipal

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

Plan Item #	Action	Cost/Funding Source
2	Develop and distribute articles to municipal newsletters	program budget
4	Create and distribute articles for friends groups, community groups and neighborhood association newsletters	urban grant program budget

11	Develop presentations (PowerPoint, slides, overheads, etc.) focused on audience interests/concerns	program budget
15	Maintain web site (information and resource lists for environmental actions, link to municipal sites)	program budget
16	Continue to use existing list serves to disseminate info	program budget
17	Develop and set up displays for fairs, expos, etc.	program budget
19	Create posters, placards, decals, yard signs (use ideas from media campaign and build upon them)	program budget
22	Continue providing organizations and community groups assistance with projects; develop list of projects to give to UWEX, RRC, & WERC then ask contacts what else they'd like to see	program budget
24	Promote storm drain stenciling and marking programs; coordinate purchase of storm drain markers for interested municipalities	2005 grant; program budget
28	Provide curriculum development	urban grant
35	Maintain distribution lists	program budget
36	Maintain website listing resources and monitoring research results (including BMP manual)	program budget
37	Develop, publicize and offer in-house training for building inspectors, contractors and staff	county budget (LCD Staff)

**Abbreviations and Selected Definitions:**

Contract = work that can be contracted out  
 DNR = Wisconsin Department of Natural Resources  
 Grant \$ = funds that have not yet been identified or applied for  
 I&E Subcommittee = MAMSWaP I&E Subcommittee  
 LWC = Dane County Lakes and Watershed Commission  
 Program budget = funding that will accompany SWEC position

SWEC = Storm Water Education Coordinator  
 tbd = to be determined  
 UWEX = University of Wisconsin Cooperative Extension  
 County Staff  
 Urban Grant = funds received from a DNR grant application

**IV.a.3.**

**Madison Area Municipal Storm Water Partnership (MAMSWaP)  
 Information and Education (I&E) Subcommittee  
 2006**

**Media campaign**

- 9 The media campaign that was started in 2005 carried on into the spring of 2006. The radio ads aired on WOLX-FM, WMMM-FM. PSAs aired on WKOW Channel 27. Web-drivers aired on WISC Channel 3. Web ads appeared on WISC's website, [www.channel3000.com](http://www.channel3000.com) as well as on [www.madison.com](http://www.madison.com).

**Survey**

- 9 MAMSWaP contracted with UWEX to conduct a survey following the media campaign to determine its effectiveness. Recall rate of the campaign was low and could be attributed to the fact that the survey was conducted so many months after the ads quit airing. Several respondents indicated that they had indeed changed their behavior. Others indicated that they already practiced many of the behaviors promoted by MAMSWaP. Another survey will be completed in 2008 at the end of the five-year permit and second media campaign to determine overall effectiveness of the entire program as a whole.



### **myfairlakes.com**

- 9 The web site is used for posting information on current programs such as Plant Dane!, workshops for contractors, lawn care professionals, etc., and has many suggestions for what homeowners can do to improve water quality and why. There are many links to other resources. It also provides contact information for the municipalities and storm water education coordinator.

### **Leaf Campaign**

- 9 For the second year, MAMSWaP joined forces with local nonprofits and others to raise awareness of leaves in street gutters and storm water. The campaign included brochures distributed door-to-door, yard signs with myfairlakes.com url and press releases. This campaign complemented the existing radio, TV and web ad campaign.

### **MAMSWaP online**

- 9 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.

### **Earth Gauge**

- 9 MAMSWaP worked with Earth Gauge, a group that provides environmental messages to meteorologists for them to use on air. Haddie McLean and Karin Swanson of WISC Channel 3 both participate in this program.

### **Displays**

- 9 Displays with information about storm water and set them up at Garden Expo, Madison Fishing Expo, Canoecopia, rain garden tour, Wisconsin Land and Water Conservation Association annual conference, and more.

### **Articles online**

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

### **Curriculum**

- 9 Distributed storm water curriculum developed in fall 2005. Rain Garden curriculum from Earth Partnership for Schools is now available as a companion curriculum.

### **Other outreach**

- 9 Developed several PowerPoint presentations to share our I&E work with other groups and at conferences (Wisconsin Association of Lakes, Wisconsin Land and Water Conservation Association).
- 9 Developed 2007 work plans.
- 9 Plant Dane! Grant Program for individual homeowners, non-profits to install rain gardens and native plants.
- 9 MAMSWaP materials have been used by other counties as models for their I&E program.

### **IV.a.4.**

- 9 Brochures were distributed at the Garden Expo, 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 Yahara 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 Office of Lakes and Watersheds (DCOLW) distributed its "How to Build a Rain Garden" brochure at their annual Better Lawns and Gutters Tour, a part of Yahara Lakes Week, 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. Placemats with actions individuals can take to improve water quality are also made available to public. DCOLW also distributed brochures on rain gardens and other pertinent information that was produced by other partners.

Land Conservation Division staff gave presentations directly to

<b>Date</b>	<b>Staff</b>	<b>Audience</b>	<b>Topic</b>
March 1, 2006	Josh Harder	POWTS Installers and Soil Testers	Shoreland Erosion Control
April 11, 2006	Josh Harder	D.C. Highway Staff	Illicit Discharge
May 1, 2006	Ryan Shore	Joe Daniels Construction	Construction Site EC Compliance
May 17, 2006	Josh Harder	Joe Daniels Construction	Construction Site EC Compliance
July 15, 2006	Ryan Shore	Findorff Construction	Construction Site EC Compliance
March 1, 2006	Jeremy Balousek and Josh Harder	WALCE Conference	Commerce Certification for EC Inspectors
September 1, 2006	Jeremy Balousek and Josh Harder	Internal DC Staff	Commerce Certification for EC Inspectors
December 14 and 15, 2006	Jeremy Balousek	Erosion Control Professionals	RUSLE2 for Construction Sites
October 18, 2006	Jeremy Balousek	NR115 Committee	Shoreland Erosion Control
September 14, 2006	Jeremy Balousek	NASECA Field Day	Bioretention Practices
July 18, 2006	Jeremy Balousek	Village of Marshall	Shoreline Erosion Control
July 13, 2006	Jeremy Balousek	NASECA Field Day	Bioretention Practices
June 20, 2006	Jeremy Balousek	Kane-DuPage Counties, IL	Erosion Control and Stormwater Management in D.C.
April 10, 2006	Jeremy Balousek	DNR EC Workshop, Rice Lake	Erosion Prediction Methods
March 27, 2006	Jeremy Balousek	DNR EC Workshop, Wisconsin Dells	Erosion Prediction Methods
March 21, 2006	Jeremy Balousek	Wyoming Association of Conservation Districts	Erosion Control and Stormwater Management in D.C.
March 2, 2006	Jeremy Balousek	WALCE Conference	Infiltration Practices
February 8, 2006	Jeremy Balousek	NRCS Tech Training	Erosion Control and Stormwater Management in D.C.

**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). Members of the public had many opportunities for

involvement in Ch. 11 and Ch. 14 ordinance revisions at the publicly noticed meetings described in III.e.

#### **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 both Highway Department locations (Fish Hatchery Road/Sun Prairie) 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 noted. 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 facilities 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. 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 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 annual 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 will occur on an annual basis or as determined by the designated County Department staff. Pamela Dunphy, P.E., Assistant Highway Commissioner and Stephan Haag, Highway Maintenance Superintendent 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 STORMSEWER AND OUTFALL**

**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.4.**

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

#### **IV.d.1.**

Applicants are notified verbally if sites disturb more than 1 acre and they are given the proper contact at DNR for more information. In addition, the county enforces standards more restrictive or equivalent to NR216 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 2006, 59 stop-work orders and 10 citations (includes referrals to corporation counsel) were issued for erosion control violations countywide. Several were NR216 permitted sites. For specific information on sites, please contact the Land Conservation Division.

#### **IV.d.4.**

- 9 Jeremy Balousek, Urban Conservation Engineer, 1 Fen Oak Court, 224-3747, [balousek.Jeremy@co.dane.wi.us](mailto:balousek.Jeremy@co.dane.wi.us), Plan review, inspection, technical support
- 9 Josh Harder, Erosion Control Engineer, 1 Fen Oak Court, 224-3748, [harder@co.dane.wi.us](mailto:harder@co.dane.wi.us), Plan review, inspection, technical support
- 9 Ryan Shore, Urban Erosion Control Analyst, 1 Fen Oak Court, 224-3738, [shore@co.dane.wi.us](mailto:shore@co.dane.wi.us), Plan review, inspection, technical support
- 9 Susan Jones, Watershed Management Coordinator, 1 Fen Oak Court, 224-3764, [jones.susan@co.dane.wi.us](mailto:jones.susan@co.dane.wi.us), Ordinance coordination and administration, staff to the Dane County Lakes and Watershed Commission
- 9 Jessica Starks, Erosion Control Specialist, 1 Fen Oak Court, 224-3647, [starks@co.dane.wi.us](mailto:starks@co.dane.wi.us), Plan review, Ordinance enforcement

#### **IV.d.5.**

One hundred percent of erosion control plans meet the requirements of NR151. 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 2006, 15 stop-work orders and 3 citations (includes referrals to corporation counsel) were issued for stormwater management violations countywide. Several were NR216 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 three County facilities covered by this permit include:

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

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

**Dane County Highway Garage-Sun Prairie-Hwy 19**

This site serves the northeastern area of Dane County.

**Alliant Energy Center (AEC)**

There are over 500 events held at the Alliant Energy Center ever year, attracting approximately 1 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 will continue to address runoff concerns and coordinate on annual reporting requirements. A sediment basin has been designed for the area between the cattle barns. The design will be presented to AEC staff in 2006 for construction consideration. Efforts to quantify collected material will be explored.

Both Highway sites have salt is stored undercover and are managed according to Trans 277 Wis. Adm. Code. The County tracks salt usage and will report it annually. Salt applications are computer calibrated to minimize overuse.

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.

There is *no use* of pesticides or herbicides by the Dane County Highway and Transportation Department.

Vehicle maintenance procedures are preformed 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 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 land-filled.

Herbicides are used in limited quantities on the grounds. Annual training is provided for the groundskeeper and all manufacturers instruction for use and disposal are followed. Nitrogen based pellets are used as a fertilizer and herbicides are used to control weed and grasses on the paved areas.

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 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. There were approximately 50 cubic yards of solids collected in 2006. In 2006 96 cubic yards of sodium chloride was used and 16,000 pounds of potassium chloride were used.

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

Street sweeping is done on the Beltine Hwy. Spring and fall collection is performed by Columbia County per contractual agreement. 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 250 cubic yards of solids was collected and disposed of at Rodefild Landfill.

**IV.f.4.**

Roadway snow removal and salting result in approximately 23,600 tons being used **County-wide** from January 1, 2006 through December 31, 2006. 17,400 gallons of salt brine were used during that same period.

**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.

**IV.f.8.**

N/A

**IV.f.9.**

N/A per IV.f.1 above

**IV.f.10.**

N/A per IV.f.1 above

**IV.f.11.**

See IV.f.1.

**IV.f.12.**

See IV.f.1.

## **Appendix D**

### **Monitoring Program**

#### **VI.c.**

None.

## **Appendix E**

### **Additional Information**

#### **VII.a.**

Revisions to database to better track plan reviews.

#### **VII.b.**

None.

#### **VII.c.**

None.