

## Stormwater BMP Management

*Water Quality Ponds: Inventory, Inspection and Maintenance*

**Wednesday, December 8, 2010**

**8:00 am to 3:30 pm**

*Presentations, hands on practices & discussions*

### City of Hermantown Administration Building

5105 Maple Grove Road

City of Hermantown, MN 55811

Phone: (218) 729-3600

**Cost: \$65**

**Register online by 12/01/2010 at:**

**[www.extension.umn.edu/stormwater](http://www.extension.umn.edu/stormwater)**

**\*\* Registration fees include morning refreshments, lunch and workshop materials.**

**Who should attend?** Public works staff, engineers, designers, planners, & public officials are invited to attend, discuss, and learn about stormwater BMP management.

**Presentations:** This workshop will focus on the important issues that face the Municipal Separate Storm Sewer System (MS4) operators in meeting their permit requirements. Learn first hand about pond and outfall inventory, inspection, and maintenance of stormwater ponds management.



### Hands On Practices:

Learn first-hand to understand various best management practices that make up a municipal separated storm sewer system.

**Discussions:** Share your experience and learn from your peers about stormwater pond management and other stormwater issues facing your communities.



**Developed with participation from:**

**Minnesota Sea Grant**

**City of Duluth**

**Minnesota Pollution Control Agency**

**St. Anthony Falls Laboratory**

**Workshop Sponsor:**

**Regional Stormwater Protection Team**

**Workshop Speakers:**

**Chris Kleist**, City of Duluth

**Jesse Schomberg**, Minnesota Sea Grant

**Andy Erickson**, M.S., P.E., Research Fellow, St. Anthony Falls Laboratory, University of Minnesota

**Scott Anderson**, P.E. Sr. Civil Engineer, City of Bloomington

**Dale Thompson**, Supervisor, Municipal Stormwater Unit, Minnesota Pollution Control Agency

**Shane Missaghi**, Extension Educator, University of Minnesota

**Upcoming Events:**

**P8 Modeling for Reviewers & Modelers**  
January 12 & 13, 2010

**Underground Stormwater Treatment Devices**  
January 14, 2010

**For these and other classes, check out our website at:**

**[www.extension.umn.edu](http://www.extension.umn.edu)**

**Stormwater &**

**Click on**

**"Stormwater U Workshops"**

## Water Quality Ponds: Inventory, Inspection and Maintenance

Agenda for December 8, 2010

### Registration

#### Welcome & Introductions

#1 - **Chris Kleist**, Project Coordinator, City of Duluth

#### Stormwater BMPs: A Primer

#2 - **Jesse Schomberg**, Coastal Communities Extension Educator, Minnesota Sea Grant College Program

#### SW Ponds: Functions & Types

#3 - **Shane Missaghi**, Educator, University of Minnesota Extension

#### Meeting MS4 permit: Stormwater BMP Inventory, Maintenance and Local Plan Requirements

#4 - **Dale Thompson**, Supervisor, Municipal Stormwater Unit – Minnesota Pollution Control Agency

### Break

#### City of Bloomington Stormwater Program: From Inventory to Maintenance

#5 - **Scott Anderson**, Water Resources Engineer, City of Bloomington

#### Visual Inspection for Preventative Maintenance

#6 - **Andy Erickson**, M.S., P.E., Research Fellow, St. Anthony Falls Laboratory, University of Minnesota

### Lunch - Provided

#### Realities of Maintenance: Actual Frequency, Effort, and Cost of Maintenance

#7 - **Andy Erickson**, M.S., P.E., Research Fellow, St. Anthony Falls Laboratory, University of Minnesota

#### Demonstration of Field practices: a video presentation

#### Expected Maintenance Issues: PAH's

#8 - **Dale Thompson**, Supervisor, Municipal Stormwater Unit – Minnesota Pollution Control Agency

#### Available Resources: What is available locally with a focus on inventory

#9 - **Chris Kleist**, Project Coordinator, City of Duluth

### Break

**Forum: How to start** - All Presenters

#### Survey (Clickers) & Evaluation

### Workshop Ends

Register online at [www.extension.umn.edu/stormwater](http://www.extension.umn.edu/stormwater)

or mail this completed form to: University of Minnesota Extension - RDU,  
405 Coffey Hall 1420 Eckles Avenue St. Paul, MN 55108

Name: \_\_\_\_\_ Company/Organization: \_\_\_\_\_

Address: \_\_\_\_\_ City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

**Payment Options: Cost: \$65**

Check, Money Order or Government Purchase Order (Payable to 'University of Minnesota')

Credit Card (MasterCard, Discover or Visa)

**Cardholders Name (Please Print):** \_\_\_\_\_

**Credit Card Number:** \_\_\_\_\_ **Exp. Date:** \_\_\_\_\_

**Cardholder's Signature:** \_\_\_\_\_

For more information, contact **Theresa Sowards** at 651-480-7715 or [sowar006@umn.edu](mailto:sowar006@umn.edu)