



Minnesota Pollution
Control Agency

39th Annual

Collection System Operators Conference



*Duluth flooding, June 2012
(Look for multiple presentations on this topic.)*

January 23-25, 2013

Marriott Northwest, Brooklyn Park
(formerly Northland Inn)

Welcome

Welcome to the Minnesota Pollution Control Agency's 39th Annual Collection System Operators Conference. On behalf of the Minnesota Pollution Control Agency, we extend our warmest greetings and sincere wishes that you find this event interesting, informative and innovative.

Our exceptional planning committee has designed a program loaded with practical topics. We believe all of you will find many topics of interest.

We appreciate and gratefully acknowledge all involved in putting on this program – the Planning Committee, speakers, presenters, presiders and vendors.

And we thank you – the attendees and participants – for your support, without which, the efforts of the others would be in vain. We hope you enjoy the conference.

The Training Team

*Charlie, Emily, Gene, Steve,
Dianne, Kay, Nancy*

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General Information

Lunch – Your name badge is required for lunch on Wednesday and Thursday.
(No lunch on Friday.)

Smoking – Smoking is not allowed in the hotel.

Calculators – The exam refresher sessions are working sessions and require a calculator.

Contact hours – To receive 16 direct contact hours, you must attend all day on Wednesday, Thursday, and Friday until noon. You must fill out the attendance sheets for each session you attend.

Ticket for vendor drawing – Pick up vendor prize drawing ticket at the registration table by 4:00 p.m. Wednesday; prizes announced during the Thursday vendor session. You must be present to win. Print your name on the ticket and bring it to the registration table.

8:00 am Welcome in Northland Ballroom

8:15 am Minnesota Power's Battle with the Flood of 2012 – Chris Rousseau

9:15 am The Value of Belonging to MN Wastewater Operators' Association (MWOA) – Todd Carlson, Linda Mullen

10:00 am	Minnesota Salon 1	Minnesota Salon 2	Arbor Lakes	Hennepin Ballroom Salon 1	Hennepin Ballroom Salon 3	Elm Creek Amphitheater
	Pump Maintenance	Inflow/Infiltration	Locating Services	Stormwater	SA/SB Exam Refresher	SC/SD Exam Refresher
12:00 pm	Lunch in atrium					
1:00 pm	Minnesota Salon 1	Minnesota Salon 2	Arbor Lakes	Hennepin Ballroom Salon 1	Hennepin Ballroom Salon 3	Elm Creek Amphitheater
	Lift Station/ Monitoring Systems	Inflow/Infiltration	Management/ Employee Relations	Stormwater	SA/SB Exam Refresher	SC/SD Exam Refresher
4:00 pm	Adjourn					

Wednesday morning

General Session

Northland Ballroom

Presiding: Tom Fournier

- 8:00 Welcome – *Tom Fournier, City of Mankato*
Emily Armistead, MPCA
- 8:15 Minnesota Power's Battle with the Flood of 2012 – *Chris Rousseau*
- 9:15 The value of belonging to Minnesota Wastewater Operators Association –
Todd Carlson, Linda Mullen

Inflow/Infiltration

Minnesota Salon 2

Presiding: Steve Lipinski, Sandy Mass, Mike Jack

- 10:00 I/I 101 - What is I/I and Why do I care if it is in my system? – *Andy Lukas, P.E.*
- 10:30 How to identify I/I sources in your collection system with smoke testing – *Joe Rubbelke*
- 11:00 How to identify I/I Sources in your collection system with flow monitoring – *Rick Dey*
- 11:30 Using CCTV to ID private property I/I –
Andy Swanson

Locating Services

Arbor Lakes

Presiding: Bob Staupe, Todd Stelmacher

- 10:00 A review of locator duties to meet Minnesota regulations – *Jeff Murray*
- 10:45 Communicating with Gopher State One Call using mobile technology – *Tom Hall*
- 11:15 New locating equipment and technologies –
Joe Rubbelke

Stormwater

Hennepin Ballroom Salon 1

Presiding: Bill Johnson, Chris Kleist

- 10:00 Community action towards compliance –
Matt Durand
- 11:00 Rain gardens – *Jeremy Walgrave*

Wednesday morning

Pump Maintenance

Minnesota Salon 1

*Presiding: Andy Stephe*s

10:00 Preventive maintenance for lift stations –
Darin Feist

Class SA & SB Exam Refresher

Hennepin Ballroom
Salon 3

Presiding: Larry Breimhurst, Mike Beattie

10:00 Two-day session reviewing material for the
Class SA and SB wastewater exam. Must be
registered separately for this session. Class
limited to 35. – *Brown & Caldwell staff*

Class SC & SD Exam Refresher

Elm Creek
Amphitheater

Presiding: Steve Duerre

10:00 Two-day session reviewing material for the
Class SC and SD wastewater exam.

- Certification – *Dianne Navratil*
- Collection System Terminology –
Kay Curtin
- Collection System Overview – *Dave Sahli*

Wednesday afternoon

Inflow/Infiltration

Minnesota Salon 2

Presiding: Steve Lipinski, Sandy Mass, Mike Jack

- 1:00 No dig options for private sewer services – *Todd Hoffman*
- 1:30 Open cut alternatives for private sewer rehabilitation – *Billy Shelton*
- 2:00 I/I reduction progress in St. Paul – *Aaron Hass*
- 2:30 WLSSD community Inflow and Infiltration Program – *Brandon Kohlts*
- 3:00 Metropolitan Council surcharge – *Kyle Colvin*
- 3:30 Duluth progress on the I/I Reduction Program from the eyes of a dinosaur – *Stephen Lipinski*

Lift Stations/Monitoring Systems

Minnesota Salon 1

Presiding: Troy Heimerl, Howard Jacobson

- 1:00 Parkland, Wisconsin Low Pressure Sewer System – *Carl Scharfe*
- 2:00 Lift Station Automation and Monitoring – *Peter Nelson*

Employee Relations and Management

Arbor Lakes

Presiding: George Linngren

- 1:00 Respect at work: How to create a respectful work environment – *Barbara Strandell*
- 2:00 LMCIT: Sewer Tool Kit Update – *Jack Hennen*
- 3:00 GIS Mapping for municipal utilities - The Basics – *John Shain*

Wednesday afternoon

Stormwater **Hennepin Ballroom Salon 1**

Presiding: Bill Johnson, Chris Kleist

- 1:00 Duluth's storm sewers and flood recovery –
Amanda Graning, Chris Kleist
- 3:00 Storm sewer inspection – *Todd Carlson*

Class SA & SB Exam Refresher **Hennepin Ballroom Salon 3**

Presiding: Larry Breimhurst, Mike Beattie

- 1:00 Two-day review session continues.


Class SC & SD Exam Refresher **Elm Creek Amphitheater**

Presiding: Kay Curtin

- 1:00 Two -day session reviewing material for the Class SC and SD wastewater exam.
- Temporary traffic control –
Kathleen Schaefer, MnDOT
 - Collection system safety – *Kay Curtin*
 - Essential math – *Steve Duerre*
 - Review – *Kay Curtin, Steve Duerre, Corey Mathisen*

8:30 am Vendor/Professional Organization Displays - Northland Ballroom

Prizes awarded during this session; must be present to win.

9:30 am	Minnesota Salon 1 Products and Services	Minnesota Salon 2 	Hotel Parking Lot 8:30 MnDOT Driver Simulator	Hennepin Ballroom Salon 1 SC Math Refresher	Hennepin Ballroom Salon 3 SA/SB Exam Refresher	Elm Creek Amphitheater SD Math Refresher
11:30 am	Lunch in atrium / Vendor displays end					
12:30 pm	Minnesota Salon 1 Critical Infrastructure	Minnesota Salon 2 Sewer Cleaning	Arbor Lakes Lift Station Tour	Hennepin Ballroom Salon 1 Emergency Response	Hennepin Ballroom Salon 3 SA/SB Exam Refresher	Elm Creek Amphitheater SC/SD Exam Refresher
3:30 pm	Adjourn					

Vendor/Professional Organization Displays **Northland Ballroom**

Presiding: Dianne Navratil

8:30 - 11:30 This session is an opportunity to discuss products and view vendor demonstrations. Winners for vendor prizes will be announced during the session. Must be present to win. Bring vendor ticket to the registration table. Exhibitors listed are as of 12/27/12:

Able Hose & Rubber
ABM Equipment
Alden Pool & Municipal Supply
Bolton & Menk
Construction Specialties
Continental Safety Equipment
Dakota Pump Control
Dukes Root Control
Electric Pump
Ellingson Companies
Elliott Equipment
Ess Brothers & Sons
Ferguson Waterworks
Flexible Pipe Tool Co.
Foth Infrastructure
General Repair
HD Supply Waterworks
Hawkins Water Treatment
Infratech
Instuform
MacQueen Equipment
MN State Retirement
MPCA Emergency Response
MVTL
MWOA
National GPR Service
North Star Pump Service
Northern Dewatering
PERA

Power Process Equipment
Quality Flow Systems
Ritter & Ritter
Servocal Instruments
Short Elliot Hendrickson
Stanter Consulting Services
Strike Products
Swanson Flow Systems
Team Lab Chemical
Tech Sales Co.
Telemetry & Process Controls
TMI Coatings, Inc.
Tri-State Pump & Control
Truck Utilities
Ulteig Engineers
Vessco, Inc.
Viking Industrial Center
Visu-Sewer Clean & Seal
WSB & Associates
W.W. Goetsch Associates

Thursday morning

Class SD Math Refresher

**Elm Creek
Amphitheater**

Presiding: Kay Curtin

9:30

- Area – *Kay Curtin*
- Volume – *Kay Curtin*
- Slope – *Corey Mathisen*
- Detention time – *Corey Mathisen*

Class SC Math Refresher

**Hennepin Ballroom
Salon 1**

Presiding: Steve Duerre

9:30

- Pump calibration – *Steve Duerre*
- Slope – *Steve Duerre*
- Velocity/Flow rate – *Gene Erickson*
- Detention time – *Gene Erickson*

Class SA & SB Exam Refresher

**Hennepin Ballroom
Salon 3**

Presiding: Larry Breimhurst, Mike Beattie

9:30 Two-day review session continues. You must be registered separately for this session. – *Brown & Caldwell staff*

Products and Services

Minnesota Salon 1

Presiding: Jim Connelly, Kelley Janes, Dave Sahli

9:30 Short presentations by vendors on their Products and Services. See list at room entrance.

MnDOT Driver Simulator

Hotel Parking Lot

8:30 MnDOT Driver Simulator – *this has limited participation* – **you must register for a time slot at the registration table to participate.**

Thursday afternoon

Sewer Cleaning

Minnesota Salon 2

*Presiding: Tom Fournier, Tony Talamantez,
Mark Koch*

- 12:30 Fairmont's four year battle with bugs....Who won? – *Neal Becker*
- 1:00 Why is it foggy in Duluth? – *Todd Carlson*
- 2:15 By the work, one knows the workman - How are you known? – *Steve Tilson*

Lift Station Tour

Arbor Lakes

Presiding: Ray Anderson, Rob Connoy, Todd Anderson

- 12:30 Pre-tour engineering review for Brooklyn Park Lift Station – *Jim Wawra*
- 12:45 Tour of Brooklyn Park Lift Station
*Must be pre-registered for the tour. Limited to 40; bus provided.

Critical Infrastructure

Minnesota Salon 1

Presiding: Dave Lemke

- 12:30 Liquid Asset Minnesota - A documentary film about Minnesota's critical water infrastructure – *Dave Lemke*
- 12:45 Tracking the 500-year flood – *Brad Camps*
- 2:30 How the Flood of 2012 affected MnDOT
Patrick Huston

Class SC & SD Exam Refresher

Elm Creek

Amphitheater

Presiding: Corey Mathisen

- 12:30 Study hall and individual assistance.

Class SA & SB Exam Refresher

Hennepin Ballroom

Salon 3

Presiding: Larry Breimhurst, Mike Beattie

- 12:30 Two-day review session continues.

Thursday afternoon

Emergency Response

Hennepin Ballroom Salon 1
Presiding: Craig Schafer


- 12:30 Activation, Mobilization, Response,
 De-mobilization: "The ER Cycle" –
 Brett Collier, Marty Glynn, Frank Stumke
- 1:30 Impact of the Flood on City of Thompson –
 Robert Walton
- 2:40 Shared Operations/Operators: The benefits
 and pitfalls (during a disaster) – *Guy Wait,*
 Derrick Wolf, CJ Van Guilder, Frank Stumke

Northland Ballroom

7:00 am **Operators Breakfast (from kiosk)** – *Presiding: Kelley Janes*

7:30 am - 8:00 am **Being a Professional Operator** – Steve Lipinski

8:00 am - 9:00 am **How has our environment affected our eagle population?** – National Eagle Center of Wabasha

	Minnesota Salon 1	Minnesota Salon 2	Arbor Lakes	Hennepin Ballroom Salon 1	Hennepin Ballroom Salon 3	Elm Creek Amphitheater
9:00 am	Retirement	Sewer Cleaning	Manhole/Pipe Rehabilitation		Safety	Certification Exams
12:00 pm	Conference adjourns (no lunch)					
1:00 pm	Exams end					

Friday morning

Operators Breakfast

Northland Ballroom

Presiding: Kelley Janes

- 7:00 Breakfast (from kiosk)
- 7:30 Being a Professional Operator –
Steve Lipinski
- 8:00 How has our environment affected our
eagle population? – *National Eagle Center of
Wabasha (A live eagle will be present.)*

Certification Exams

**Elm Creek
Amphitheater**

Presiding: Dianne Navratil

- 9-1:00 Need calculators & pencils.
Formulas provided.
See exam list at hand-outs table to confirm
your application has been accepted.

Manhole/Pipe Rehab

Arbor Lakes

*Presiding: Joe Rubbelke, Linda Mullen, John Selvog,
Todd Stelmacher*

- 9:00 MCES Chaska Interceptor Rehabilitation –
Peter Glashagel, P.E.
- 9:45 Inherent corrosion resistant pipe and
manholes - product application review –
Vince Paparozzi
- 10:30 So you're thinking of doing a sewer
rehabilitation project? – *Brian Miller, P.E.*
- 11:15 Manhole vacuum testing, joint testing, and
internal MH by-pass techniques – *Karl Trott*

Safety

Hennepin Ballroom Salon 3

Presiding: Jim Miller, George Linngren

- 9:00 Introduction to Safety – *Jim Miller*
- 9:30 Short term traffic control – *George Linngren*
- 10:15 Trenching and Excavation – Competent
Person – *Chad Peterson*
- 11:00 ARC Flash - Albert Lea Case History –
Rick Ashling, Mike Johnson

Friday morning

Sewer Cleaning

Minnesota Salon 2

Presiding: Tony Talamantez, Tom Fournier, Mark Koch

- 9:00 Billy can make his jetter dance - Let's see how he can make it sing – *Bill Dietrich*
- 10:00 Televising - Push Cam, Pole Cam, Dope Cam – *John Grove*
- 11:00 Your customer's basement; is it a good option for sewage spill containment? – *Jack Hennen*

Retirement

Minnesota Salon 1

Presiding: Gene Erickson

- 9:00 Ten most asked questions about Social Security – *Jim Czechowicz*
- 10:00 Minnesota State Retirement System's General Plan Pension – *Kirk Soland*
- 11:00 Your benefits with PERA – *John Paulson*

12:00 – Conference adjourns

(no lunch)

Presenters / *Planners

- * Anderson, Todd – *General Repair Service*
- * Anderson, Ray – *General Repair Service*
- * Armistead, Emily – *MPCA St. Paul*
- Ashling, Rick – *City of Albert Lea*
- Beattie, Mike – *Brown & Caldwell*
- Becker, Neal – *Fairmont Public Works Utilities Comm*
- * Breimhurst, Larry – *Brown & Caldwell*
- Camps, Brad – *City of Duluth*
- * Carlson, Todd – *City of Duluth*
- * Christen, Jarrod – *Ulteig Engineering*
- Collier, Brett – *City of Barnum*
- Colvin, Kyle – *Metropolitan Council*
- * Connelly, Jim – *Elliott Equipment Company*
- * Connoy, Rob – *General Repair Service*
- * Craddock, Patti – *SEH*
- * Curtin, Kay – *MPCA St. Paul*
- Czechowicz, Jim – *Social Security Administration*
- Dey, Rick – *ISCO Teledyne*
- Dietrich, Bill – *ABM Equipment*
- * Duerre, Steven – *MPCA St. Paul*
- Durand, Matt – *City of Owatonna*
- Ellefson, Nancy – *MPCA St. Paul*
- * Erickson, Gene – *MPCA St. Paul*
- Feist, Darin – *Dakota Pump and Control*
- * Fournier, Tom – *City of Mankato*
- * Galloway, Greg – *City of St. Paul*
- Glashagel, Peter – *Brown & Caldwell*
- Glynn, Marty – *MnWARN Regional Rep/City of Shakopee*
- Graning, Amanda – *US National Weather Service*
- Graul, Dave – *Metropolitan Council*
- Grove, John – *Cues Inc.*
- * Haag, Del – *Bolton & Menk*
- Hall, Tom – *Korterra*
- Hass, Aaron P.E. – *City of St. Paul*
- Heimerl, Troy – *Electric Pump*
- Hennen, Jack – *League of Minnesota Cities*
- Hoffman, Todd – *Ellingson Companies*
- * Huson, Kevin – *Quality Flow Systems*
- Huston, Patrick – *MnDOT*
- * Jack, Mike – *City of St. Paul*
- * Jacobson, Howard – *City of Duluth*
- * Janes, Kelley – *City of New Ulm*
- * Johnson, Bill – *Foth Infrastructure*
- Johnson, Mike – *Foth Infrastructure*

Presenters / *Planners

- * Kleist, Chris – *City of Duluth*
- * Koch, Mark – *City of Mankato*
 - Kohlts, Brandon – *WLSSD*
 - Lampe, Jared – *National GPR Service*
- * Lemke, Dave – *City of Golden Valley*
- * Linngren, George – *City of Blaine*
- * Lipinski, Steve – *Recently Retired!*
 - Lukas, Andy P.E. – *Brown & Caldwell*
 - Mathisen, Corey – *MPCA St. Paul*
- * Mass, Sandy – *City of Duluth*
 - Miller, Brian P.E. – *MSA Professional Services*
- * Miller, Jim – *Foth Infrastructure*
- * Miller, Tim – *Electric Pump Company*
- * Mullen, Linda – *City of Burnsville*
 - Murray, Jeff – *Minnesota Office of Pipeline Safety*
- * Navratil, Dianne – *MPCA St. Paul*
 - Nelson, Peter – *Integrated Process Solutions, Inc.*
 - Paparozzi, Vince – *Hobas Pipe USA*
 - Paulson, John – *Public Employees Retirement Assoc*
 - Peterson, Chad – *Safeassure*
 - Rousseau, Chris – *MN Power*
- * Rubbelke, Joe – *Infratech*
- * Sahli, Dave – *MPCA St. Paul*
 - Schaefer, Kathleen – *MnDOT*
- * Schafer, Craig – *MPCA Marshall*
 - Scharfe, Carl – *MSA Professional Services*
- * Selvog, John – *Infratech*
 - Shain, John – *Bolton & Menk*
 - Shelton, Billy – *Shelton Excavating*
 - Soland, Kirk – *MN State Retirement System*
- * Staupe, Bob – *City of Lakeville*
- * Stelmacher, Todd – *Visu-Sewer*
- * Stephe, Andy – *City of Prior Lake*
 - Strandell, Barbara – *What Works Inc.*
 - Stuemke, Frank – *MN Rural Water*
 - Swanson, Andy – *City of Duluth*
- * Talamantez, Tony – *City of Mankato*
- * Thompson, Charlie – *MPCA St. Paul*
 - Tilson, Steve – *Steve Tilson & Associates*
 - Trott, Karl – *Vanderlans & Sons Inc.*
 - Van Guilder, CJ – *City of Carlton*
- * VanGundy, Mark – *Elliot Equipment*
 - Wait, Guy – *City of Carlton*

Presenters / *Planners

Walgrave, Jeremy – *Limnotech*

Walton, Robert – *WLSSD*

Wawra, Jim – *Metropolitan Council*

Wolf, Derrick – *Thompson Public Works*

* Young, Jeff – *Dakota Pump*

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