North Dakota Water and Pollution Control Conference

NDWPCC

JULY 2007 - SEPTEMBER 2007

VOLUME 93

NUMBERS 1-3

CONFERENCE ISSUE

City of Fargo

OFFICIAL BULLETIN

STUDENTS AND YOUNG PROFESSIONALS

RECEPTION

AT THE 79TH ANNUAL ND WATER AND POLLUTION CONTROL CONFERENCE

WHO: Students and Young Professionals Involved in the Water and Wastewater Industry (Seasoned professionals welcome, too)

WHERE: Buffalo Wild Wings, 1501 42nd Street South, Fargo

WHEN: Wednesday October 24th, 2007
7:00pm-9:00pm

Join us for a social event with opportunities to:

- Network with colleagues, potential employers, and potential employees
- Enjoy the camaraderie of the greatest industry – the water industry!

Water Environment Federation®
Preserving & Enhancing the Global Water Environment

North Dakota Water and Pollution Control Conference
NDWPCC

American Water Works Association

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Operator Certification, Training and Facility Inspections Unit Staff

Members of the Conference are indebted to those members and others who have contributed articles and other materials for this publication.

OFFICIAL BULLETIN

Official Publication of the
North Dakota Water and Pollution Control Conference

Conference Issue **Established 1935**

VOL. 93 **JULY 2007-SEPTEMBER 2007** **NOS. 1-3**

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CONFERENCE BUSINESS PHONE: **701-328-6622**

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To access past issues of the *Official Bulletin* on the web, go to: http://www.ndhealth.gov/MF/, and click on publications.

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ON THE COVER: Fargo's new solid waste transfer station and baling facility. See the article on page 5. (Photo by Larry Goughnour)

The objectives of this Conference shall be: the advancement of the knowledge of design, construction, operation and management of water and wastewater systems; the promotion and encouragement, through annual meetings or otherwise, of an exchange of information and experience among its membership; the promotion and encouragement of the protection of public health and improved environment through the construction and efficient operation of water supply and wastewater treatment facilities; and the promotion of water and wastewater system operator education and certification programs.

Article II of the Constitution of the
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Fargo Landfill Renewable Energy Project

Bruce P. Grubb, PE, Enterprise Director

The city of Fargo owns and operates a municipal landfill located in an industrial park in the northwest part of the city. The landfill site is 160 acres, located west of 45th Street, between 7th Avenue North and 12th Avenue North as shown in Figure 1. The city opened the landfill in 1980, and since that time, considerable industrial development has occurred in the area resulting in the landfill finding itself in an urban setting. Thus, increased pressure was placed on the landfill and its operations staff to be good neighbors.

The three major issues facing urban landfills are leachate (liquid that accumulates on the bottom of landfills), odor (typically gas that is generated through garbage decomposition) and windblown litter (affecting adjacent property owners). In an effort to be a good neighbor, the city investigated solutions to these issues for incorporation into the landfill operating procedures.

With respect to the leachate issue, the Environmental Protection Agency (EPA) Subtitle D Rules (1990) for municipal landfills require that impermeable liners and leachate collection systems be installed on the bottom of landfills. Since 1990, the city landfill has been constructing its disposal cells with liners and collection systems for the removal of leachate. The landfill's urban setting is convenient for the transport of landfill leachate to the city's wastewater treatment plant for treatment. A diagram of the landfill's leachate collection system is shown in Figure 2.

The odor issue presented a bigger challenge, but the city ultimately decided the most effective way to control odor was to install an active gas collection system at the landfill. The basic elements of a gas collection system include vertical gas extraction wells (drilled directly into the buried waste

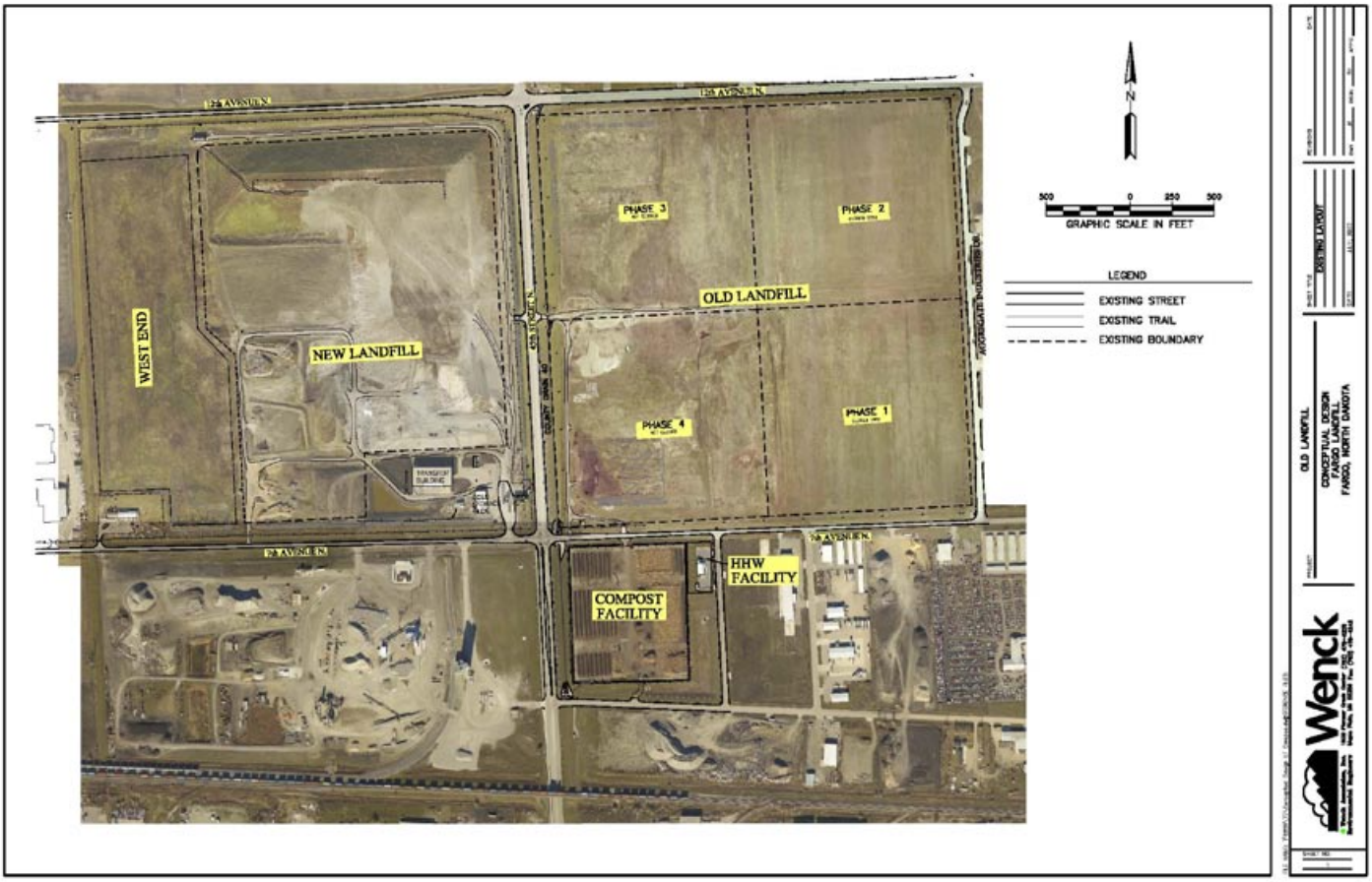

Figure 1. Layout of Fargo landfill

Figure 2. Landfill leachate collection system

mass), piping interconnects (to form a "wellfield") and header piping to connect the wellfield to a central compressor station. The system draws gas out of the landfill before it escapes into the atmosphere and migrates offsite. In 2001, the landfill installed its first wellfield consisting of 20 wells providing a withdrawal capacity of 600 cubic feet per minute (cfm).

The captured gas has been sold to Cargill (located 1.5 miles west of the landfill) for use in its seed processing facility boilers. Since that time, the landfill has continued to grow in size prompting two phases of wellfield expansions. As a result, the gas collection system now consists of 40 vertical gas extraction wells providing a withdrawal capacity of 1200 cfm. A diagram of the landfill gas collection system is shown in Figure 3.

The issue with windblown litter was particularly difficult to address due to the windy conditions common in the Red River Valley. Once filled to its design capacity, the landfill will rise 60-70 feet above the natural ground elevation. Therefore, it was decided that the most effective way to control or prevent blowing litter would be to unload garbage inside a building to control wind impacts. In addition, if the garbage was baled (prior to placement in the landfill) the likelihood of blowing litter could be further reduced. Thus, in May 2007, the landfill completed construction of a new transfer station and baling facility in an effort to solve the problems associated with blowing litter. A picture of the transfer station and baling facility is shown in Figure 4.

Since the landfill was in the process of completing two phases of wellfield expansion, the city recognized an opportunity to utilize this renewable energy resource at the new transfer station and baling facility. Ultimately, landfill gas energy and two additional forms of renewable energy were incorporated into the building design: wind energy and solar energy. The landfill gas would

(**Fargo Landfill** ... Continued on page 9)

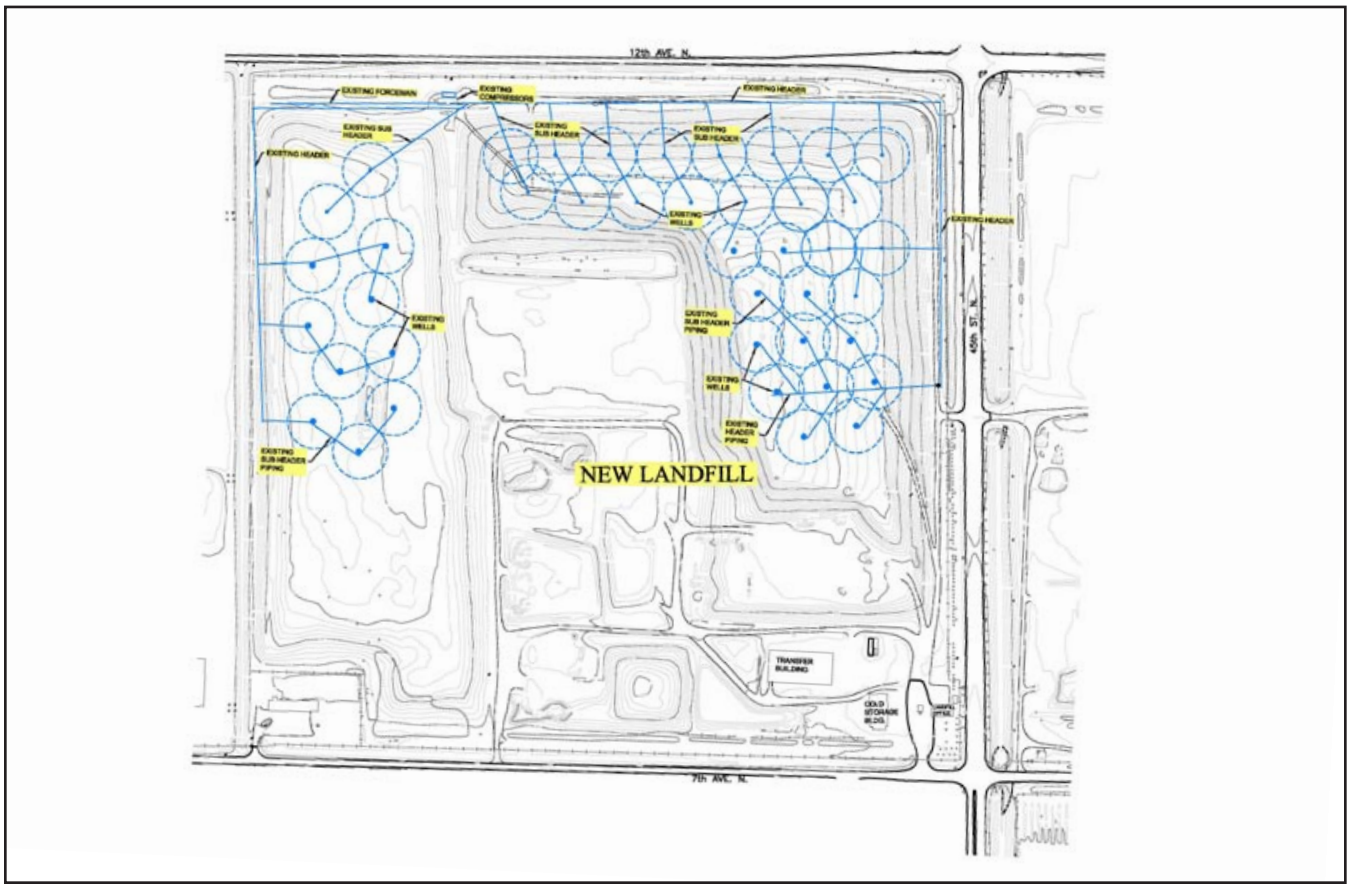

Figure 3. Landfill gas collection system

Figure 4. Solid waste transfer station and baling facility

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(**Fargo Landfill** ... Continued from page 6)

be used to heat the transfer station, while the wind and solar energy would be used to offset some of the transfer station electrical load.

During the design process, an evaluation was done regarding the availability of landfill gas versus the amount being utilized by Cargill and projected to be utilized by the transfer station. It was determined that about one-third of the gas being captured was available for other uses. Therefore, it was decided to investigate the possibility of using the additional gas to generate electricity. Results of the analysis indicated that the use of a methane gas-powered generator could produce twice the amount of electricity currently being consumed at the landfill. In addition, a methane gas generator would produce sufficient waste heat to meet the heating needs of the new transfer station. Thus, the new transfer station and baling facility incorporated the following renewable energy design features.

- landfill gas generator – heat and electricity
- photovoltaic solar panels – electricity
- wind turbine – electricity

Fortunately, the economics of the renewable energy elements proved beneficial to the city. The landfill applied for and received a $20,000 grant from the State of North Dakota to help fund the renewable energy components.

The city also submitted an application to the federal government for funding under the Clean Renewable Energy Bonds (CREBs) Program. CREBs are interest-free bonds that can be sold to finance eligible renewable energy projects.

The landfill project was approved for bonding allocation under the CREBs Program, so the annual interest gained on CREBs financing was about $44,000 per year. A summary of the economics evaluation can be found in Table 1.

Table 1

Economic Evaluation

A. Costs	
Boiler Equipment	= $ 17,400
Solar Equipment	= $ 58,000
Wind Equipment	= $ 78,000
Methane Gas Generator	= $ 713,000
Heat Recovery Equipment	= $ 65,000
Transformer and Metering	= $ 17,000
Subtotal	= $ 948,400
ND DOE Grant	= $ (20,000)
Total	= $ 928,400
B. Benefits	
Avoided Electrical Cost	= $ 169,200/yr
Excess Electricity Sales	= $ 142,200/yr
Avoided Natural Gas Cost	= $ 70,500/yr
CREBs Financing Interest	= $ 44,250/yr
Subtotal	= $ 426,150/yr
O & M Costs	= $ (76,000/yr)
CREBs Repayment	= $ (100,000/yr)
Total	= $ 250,150/yr
Simple Payback = 3 ½ years	

In conclusion, through the city's efforts to utilize some available energy resources at the landfill, it was able to find solutions to the major issues facing the landfill, generate new income to help pay for the solutions, and develop a long-term source of new revenue for the city.

President's Letter

MARK BLONIGEN
Fargo
PRESIDENT

Dear Conference Members and Friends of the Conference:

On behalf of the North Dakota Water and Pollution Control Conference, the North Dakota Water Environment Association, the North Dakota Section of the American Water Works Association and the North Dakota Chapter of the American Public Works Association, I would like to invite you to Fargo for the 79th Annual Conference. This year's conference will be held October 24-26, 2007, at the Fargo Holiday Inn.

The conference is always an opportune time to network with colleagues in your profession, a chance to learn something new and a time to enjoy the many social activities that take place throughout the conference.

Please mark your calendars and plan to spend a few days here in Fargo, surrounding yourself with your peers and catching up with old friends as you take some time to relax, renew and reward yourself.

Sincerely,
Mark Blonigen, President
North Dakota Water and Pollution Control Conference

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JOINT MEETINGS OF THE

NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE 79TH ANNUAL CONFERENCE

NORTH DAKOTA CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION 52ND ANNUAL CONFERENCE

NORTH DAKOTA WATER ENVIRONMENT ASSOCIATION 48TH ANNUAL CONFERENCE

NORTH DAKOTA SECTION OF THE AMERICAN WATER WORKS ASSOCIATION 17TH ANNUAL CONFERENCE

OCTOBER 24, 25-26, 2007
FARGO, NORTH DAKOTA
HOLIDAY INN
877-282-2700 or 701-282-2700

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REGISTRATION FORM

JOINT MEETING OF THE
NORTH DAKOTA WATER & POLLUTION CONTROL CONFERENCE
NORTH DAKOTA CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION
NORTH DAKOTA WATER ENVIRONMENT ASSOCIATION
NORTH DAKOTA SECTION OF THE AMERICAN WATER WORKS ASSOCIATION
October 24, 25, and 26, 2007, Holiday Inn, Fargo, North Dakota 877-282-2700

COMPLETE AND RETURN TO:

NDWPCC
918 E. Divide Ave., 3rd Fl.
BISMARCK ND 58501-1947
PHONE: (701) 328-6622

Write in Costs

A. PACKAGE REGISTRATION ($130.00) _____

Includes all fees for registration, banquet, buffet, and noon luncheons.

B. INDIVIDUAL COSTS IF PACKAGE FEE IS NOT SELECTED

Registration ($50.00) _____
Student Registration ($10.00) _____
Wed. Luncheon APWA ($12.00) _____
Wed. Evening Buffet ($26.00) _____
Thurs. Buffet Breakfast (Sponsored by Tabletop Exhibitors) FREE
Thurs. Luncheon AWWA ($11.00) _____
Thurs. Evening Banquet ($29.00) _____
Fri. Luncheon NDWPCC & WEA ($11.00) _____

C. REGISTRATION FOR GUEST/SPOUSE

Name _____

Wed. Evening Buffet ($26.00) _____

❑ Please check if your guest/spouse is planning to attend the guest/spouse's program. Free breakfast buffet and the luncheon at the Café Muse by Mosaic Foods. Tour of Plains Art Museum and art studio experience after the lunch.

Thurs. Evening Banquet ($29.00) _____

List any other luncheons your guest/ spouse may wish to attend: _____ _____

D. TOTAL REGISTRATION FEES _____

TOTAL MEMBERSHIP FEES (from section F) _____

TOTAL PAYMENT DUE ☐

MAKE CHECK PAYABLE TO:

NDWPCC or ND Water & Pollution Control Conference

Yes ❑ No ❑ Do you qualify as a water treatment or water distribution operator for a system serving 3,300 or less? This will determine eligibility for reimbursement.

Yes ❑ No ❑ Do you plan to participate in the golf tournament starting at 1:00 p.m. on Wednesday at the Edgewood Golf Course?
Your average score or handicap _____.
The golf course will be charging a green and golf cart fee.

Yes ❑ No ❑ Do you plan to participate in the field trips to Fargo and West Fargo's Municipal Facilities on Thursday morning? City officials will be available for directions, and maps are available at the registration desk.

Yes ❑ No ❑ Do you plan to participate in the Casino Excursion to Hankinson on Wednesday? Transportation provided.

E. USE ONLY ONE NAME PER APPLICATION
(Photocopy if more are needed)
(PLEASE PRINT)

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F. **MEMBERSHIPS**

(For new members or members wishing to pay during conference registration.)

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Active - ($87.00) _____

NDWEA Operators' Division - ($49.00) _____

NDWEA Student - ($10.00) _____

Corporate - ($260.00) _____

Retired - ($35.00) _____

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Individual - ($129.00) _____

AMERICAN WATER WORKS ASSOCIATION

Active - ($150.00) _____

Operations - ($62.00) _____

Student - ($28.00) _____

TOTAL MEMBERSHIP FEES ☐

G. FOR CONFERENCE USE ONLY

PAID BY: Check_____ Cash_____ Charge_____

Check No._____

2007 MEETING SCHEDULE

TUESDAY

7:30 p.m.	**North Dakota Section of the American Water Works Association (NDAWWA) Preconference Meeting** Frontier Room of Dakota Hall

WEDNESDAY

7:30 a.m.	**Officers' Meeting** NDAWWA Frontier Room of Dakota Hall
8:00 a.m.	**Officers' Meeting** North Dakota Chapter of the American Public Works Association (NDCAPWA) Embassy A Room
8:00 a.m.	**Officers' Meeting** North Dakota Water Environment Association (NDWEA) Embassy B Room
9:30 a.m.	**Business Meeting** Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC), the NDCAPWA, the NDWEA, and the NDAWWA Frontier Room of Dakota Hall
10:15 a.m.	**Auditing Committee Meeting** NDWPCC Frontier Room of Dakota Hall
10:30 a.m.	**AWWA Committee Meetings** NDAWWA Frontier Room of Dakota Hall
11:30 a.m.	**Business Meeting** NDCAPWA Royale Room of the Great Hall
1:00 p.m.	**Edgewood Golf Tournament** 19 Golf Course Ave. NE, Fargo
1:15 - 5:00 p.m.	**Concurrent Sessions**
7:00 - 9:00 p.m.	**Student and Young Professionals Reception** Buffalo Wild Wings, 1501 - 42nd St. S, Fargo

THURSDAY

12:00 p.m.	**Business Meeting** NDAWWA Director's, Board, and Executive Rooms of the Harvest Hall
2:15 - 5:00 p.m.	**Concurrent Sessions**

FRIDAY

7:30 a.m.	**Annual Public Works Directors and City Engineers Meeting** Mezzanine, Suite I
7:30 a.m.	**North Dakota Operator Certification Advisory Committee Meeting** Mezzanine, Suite II
8:00 - 11:45 a.m.	**Concurrent Sessions**
12:00 p.m.	**Business Meetings** NDWEA and NDWPCC Royale Room of the Great Hall

FUTURE CONFERENCES

2008 - Bismarck; October 8, 9, and 10; Ramkota Inn

2009 - Minot; October 20, 21, and 22; Grand International Inn

2007 ANNUAL CONFERENCE ACTIVITIES

REGISTRATION

Wednesday **8:30 a.m. - 8:30 p.m.**
Thursday **8:00 a.m. - 4:00 p.m.**
Friday **8:00 a.m. - 10:00 a.m.**
Atrium/Press Room

MEALS

Wednesday Lunch 11:30 a.m.
Royale Room of the Great Hall

Wednesday Buffet Dinner 5:00 p.m. - 7:00 p.m.
Pool Patio

Thursday Free Buffet Breakfast 8:00 a.m. - 10:00 a.m.
Sponsored by Vendors and Suppliers
Crowne, Royale, and Embassy Rooms of the Great Hall

Thursday Lunch 12:00 p.m.
Director's, Board, and Executive
Rooms of the Harvest Hall

Thursday Social 5:30 p.m.
Pool Patio

Thursday Banquet 6:30 p.m.
The Great Hall

Friday Lunch 12:00 p.m.
Royale Room of the Great Hall

FARGO AND WEST FARGO MUNICIPAL FACILITIES FIELD TRIPS

Thursday **10:00 a.m.**
Transportation is on your own, maps will be provided.

GUEST/SPOUSE'S PROGRAM

Thursday **8:00 a.m.**
Free buffet breakfast and luncheon. The luncheon will be at the Café Muse by Mosaic Foods, followed by a tour of the Plains Arts Museum and an art studio experience. Departure will be at 11:00 a.m. at the front of the hotel.

CASINO EXCURSION

Wednesday **7:00 p.m. - 11:00 p.m.**
There will be a $10.00 transportation fee, which will be refunded by $10.00 in Casino tokens. Meet in Holiday Inn lobby - bus departs at 7:00 p.m. Bus departs from Casino at 11:00 p.m. to return to Fargo.

WATER AND WASTEWATER OPERATORS' CERTIFICATION EXAMINATIONS

Wednesday **7:30 a.m. - 11:30 a.m.**
Mezzanine Suite I

TABLETOP DISPLAY PROGRAM CROWNE, ROYALE, AND EMBASSY ROOMS OF THE GREAT HALL

Wednesday 8:30 a.m. - 8:30 p.m.
Check In at the Registration Desk

Wednesday 6:30 p.m. - 8:30 p.m.
Setup Time

Thursday 7:00 a.m. - 7:30 a.m.
Last Chance Setup Time

Thursday **7:30 a.m. - 11:30 a.m.**
Display Hours

Thursday 11:30 a.m. - 1:30 p.m.
Takedown Time

GOLF TOURNAMENT

Wednesday **1:00 p.m.**
Edgewood Golf Course, 19 Golf Course Ave. NE, Fargo

STUDENT AND YOUNG PROFESSIONALS RECEPTION

Wednesday **7:00 p.m. - 9:00 p.m.**
Buffalo Wild Wings, 1501 - 42nd St. S, Fargo

LOCAL ARRANGEMENTS COMMITTEE

Pete Bilstad	Tom Welle
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NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE
NDWPCC

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Parsons Engineered Products, Inc.
3601 Park Center Blvd.
St. Louis Park, MN 55416
952-926-7000

Prinsco, Inc.
108 Hwy 7 W
Prinsburg, MN 56284
800-992-1725

Swenson, Hagen & Company
909 Basin Ave.
Bismarck, ND 58504
701-223-2600

Team Laboratory Chemical Corp.
PO Box 1467
Detroit Lakes, MN 56502
218-846-9490

Ulteig Engineers
3350 38th Ave. S
Fargo, ND 58104
701-280-8500

Widseth Smith Nolting and Assoc., Inc.
2715 Washington St. S
Grand Forks, ND 58208
701-795-1975

moore engineering, inc.
West Fargo, ND 701-282-4692
Fergus Falls, MN 218-998-4041
Pelican Rapids, MN 218-863-1106
www.mooreengineeringinc.com
CONSULTING ENGINEERS AND LAND SURVEYORS

WEDNESDAY, OCTOBER 24, 2007

11:30 a.m. Luncheon and Business Meeting, NDCAPWA
President Chuck Abel Presiding
Guest Speaker: Larry Frevert, President, APWA, Kansas City, MO

Welcome: Fargo Mayor Dennis Walaker
Mark Blonigen, President of the NDWPCC

AFTERNOON CONCURRENT SESSIONS

SESSION A

Conference and Director's Rooms of the Harvest Hall
Moderator: Jack Long, Director, NDAWWA

1:15 p.m. TITLE: "Red River Valley Water Supply Project"
SPEAKER: David Johnson, District Engineer, Garrison Diversion Conservancy District

1:45 p.m. TITLE: "Water and Wastewater Agency Response Network [WARN]"
SPEAKER: To Be Announced

2:45 p.m. BREAK: South Convention Corridor

3:00 p.m. TITLE: "Water Engineering - Hands-on Experience in Bolivia"
SPEAKER: Mary Anderson, Project Engineer, AE_2S

3:30 p.m. TITLE: "Large Diameter Water Transmission Line Case Study, Minot, ND"
SPEAKER: Tim Paustian, Project Manager, Ulteig Engineers, Inc.

4:00 p.m. TITLE: "Water Fluoridation Basics"
SPEAKER: Katie Luther, Environmental Scientist, ND Department of Health

5:00 p.m. Adjourn All Sessions

SESSION B

Board and Executive Rooms of the Harvest Hall
Moderator: Gary Bracht, Past-President, NDWEA

1:15 p.m. TITLE: "Fargo Odor Control Update"
SPEAKER: Seth Lynne, Project Engineer, Ulteig Engineers, Inc.

1:45 p.m. TITLE: "Region VIII's Biosolid Permit"
SPEAKER: Robert Brobst, Environmental Engineer, Biosolids Coordinator, NPDES Program, US EPA, Region VIII

2:45 p.m. BREAK: South Convention Corridor

3:00 p.m. TITLE: "Stormwater Update"
SPEAKER: Randy Kowalski, Environmental Scientist, ND Department of Health

3:30 p.m. TITLE: "Fats, Oil, & Grease Control"
SPEAKER: Bill Gefroh, Lab Manager/Industrial Pretreatment Coordinator, City of Bismarck

4:00 p.m. TITLE: "Hydrant Repair"
SPEAKER: Rick Wanner, Senior Sales Representative, American Flow Control

5:00 p.m. Adjourn All Sessions

SESSION C

Dakota Hall
Moderator: Rustin Roteliuk, Secretary-Treasurer, NDCAPWA

1:15 p.m. TITLE: "Fargo Landfill Renewable Energy Project"
SPEAKER: Bruce Grubb, Enterprise Director, City of Fargo

1:45 p.m. TITLE: "Maple River Dam"
SPEAKER: Jeffry Volk, Project Manager, Water Resources, Moore Engineering, Inc.

2:45 p.m. BREAK: South Convention Corridor

3:00 p.m. TITLE: "Public Works in North Dakota - How APWA Can Help"
SPEAKER: Larry Frevert, President, APWA, National Program Director/Public Works, HDR, Inc.

3:30 p.m. TITLE: "State Requirements for Plans and Specifications"
SPEAKER: Chuck Abel, Environmental Engineer, ND Department of Health

4:00 p.m. TITLE: "Tank Options for Water Storage"
SPEAKER: Anthony "Tony" Belden, President/Owner, Engineering America, Inc.

5:00 p.m. Adjourn All Sessions

5:00 - 7:00 p.m. Buffet Dinner, Pool Patio

7:00 - 9:00 p.m. Student and Young Professionals Reception, Buffalo Wild Wings

THURSDAY, OCTOBER 25, 2007

7:30 a.m. - 11:30 a.m. Tabletop Display Program
Crowne, Royale, and Embassy Rooms of the Great Hall

8:00 a.m. - 10:00 a.m. Free Breakfast Buffet - Sponsored by the vendors and suppliers
Crowne, Royale, and Embassy Rooms of the Great Hall

12:00 p.m. Luncheon and Business Meeting, NDAWWA
Chair David Johnson Presiding
Guest Speaker: Joseph P. Mantua, President, AWWA, Gaithersburg, MD

1:00 p.m. Motivational Speaker: Patty Corwin
"Motivation - Whose Job Is It?"

AFTERNOON CONCURRENT SESSIONS

SESSION A

Sterling Room of the Great Hall
Moderator: David Bruschwein, Secretary-Treasurer, NDAWWA

2:15 p.m. TITLE: "Fundamentals of Oxidation/Reduction"
SPEAKER: Delvin DeBoer, Director of Water and Environmental Engineering Research Center, SDSU

2:45 p.m. BREAK: South Convention Corridor

3:00 p.m. TITLE: "Applications of Oxidation/Reduction in Water Treatment"
SPEAKER: Delvin DeBoer, Director of Water and Environmental Engineering Research Center, SDSU

4:00 p.m. TITLE: "Riverdale Membrane Filtration Case Study"
SPEAKER: Cory Chorne, Project Manager, AE_2S

5:00 p.m. Adjourn All Sessions

SESSION B

Dakota Hall
Moderator: Bill Gefroh, Secretary-Treasurer, NDWEA

2:15 p.m. TITLE: "Design for the Future: Upgrading an Existing HPOAS Process"
SPEAKERS: Speakers for this session are from the NDSU WEF/AWWA Student Chapter:
Haley Watson, Senior Undergraduate Student
Christopher Hill, Graduate Student
Zachary Maruska, Graduate Student
Cory Bjornberg, Graduate Student

2:45 p.m. BREAK: South Convention Corridor

3:00 p.m. TITLE: "Trouble Shooting Lagoons Update"
SPEAKERS: Terry Rust, Lab/Industrial Pretreatment Coordinator, City of West Fargo
Skip Rapp, Public Works Manager, City of Dickinson
Karla Olson, Project Engineer, Ulteig Engineers, Inc.
Robert Brobst, Environmental Engineer, US EPA, Region VIII
Gary Bracht, Environmental Engineer, ND Department of Health

4:00 p.m. TITLE: "Centrifugal Pumps"
SPEAKER: Michael Fears, District Manager, Gorman-Rupp Pump Co.

5:00 p.m. Adjourn All Sessions

SESSION C

Conference Room of the Harvest Hall
Moderator: Chuck Abel, President, NDCAPWA

2:15 p.m. TITLE: "Nyloplast BMP Products"
SPEAKER: Matt Carpenter, Midwest Area Manager, Nyloplast Inc.

2:45 p.m. BREAK: South Convention Corridor

3:00 p.m. TITLE: "Traffic Calming Devices"
SPEAKERS: Brock M. Storrusten, Project Engineer, Moore Engineering, Inc.
Chris Brungardt, Project Coordinator, City of West Fargo

4:00 p.m. TITLE: "Design and Installation of Corrugated Polyethylene Pipe"
SPEAKER: Roger Baldwin, Regional Engineer, Advanced Drainage Systems

5:00 p.m. Adjourn All Sessions

5:30 p.m. Social Hour, Pool Patio

6:30 p.m. Banquet, The Great Hall
Invocation: Terry Rust
Master of Ceremonies and Entertainment: Steve Stark

FRIDAY, OCTOBER 26, 2007

MORNING CONCURRENT SESSIONS

SESSION A

Conference and Director's Rooms of the Harvest Hall
Moderator: Brett Jochim, Chair-Elect, NDAWWA

8:00 a.m.	TITLE:	"UV101: Introduction to Ultraviolet Light Disinfection for Drinking Water Treatment Plants"
	SPEAKER:	Deon Stockert, Drinking Water Manager, AE_2S
8:30 a.m.	TITLE:	"Large Diameter Water Transmission Line Case Study, Moorhead, MN"
	SPEAKER:	Tom Welle, Vice President, Water/Wastewater Services, Ulteig Engineers, Inc.
9:00 a.m.	TITLE:	"Water Distribution System: Operational Decisions"
	SPEAKERS:	Deon Stockert, NDAWWA Hazel Sletten, City of Grand Forks Keith Demke, City of Bismarck Ron Hendricksen, City of Fargo Randy Nelson, City of Wahpeton Dennis Larson, City of Park River Jerry Blomeke, Cass Rural Water District
10:00 a.m.	BREAK:	South Convention Corridor
10:15 a.m.	TITLE:	"Devils Lake Water Supply and Treatment Project"
	SPEAKERS:	Nate Weisenburger, Operations Manager, AE_2S Mike Grafsgaard, City Engineer, City of Devils Lake
10:45 a.m.	TITLE:	"Devils Lake Water Supply and Treatment Project" continued
11:15 a.m.	TITLE:	"North Central Rural Water Consortium Riverdale Area Supply Project"
	SPEAKER:	Darrell Hournbuckle, Senior Project Engineer, Interstate Engineering, Inc.
11:45 a.m.		Adjourn All Sessions

SESSION B

Board and Executive Rooms of the Harvest Hall
Moderator: Miranda Kleven, Director, NDWPCC

8:00 a.m.	TITLE:	"Southside Sewer System Master Plan, Minot, ND"
	SPEAKER:	Tim Paustian, Program Manager, Ulteig Engineers, Inc.
8:30 a.m.	TITLE:	"Upper Souris River DO TMDL Project Progress Report"
	SPEAKER:	Mathew Baker, Graduate Student, NDSU
9:00 a.m.	TITLE:	"Wastewater Odor Control"
	SPEAKER:	Bill Gefroh, Lab Manager/Industrial Pretreatment Coordinator, City of Bismarck
10:00 a.m.	BREAK:	South Convention Corridor
10:15 a.m.	TITLE:	"Urban Plains - A Unique Approach to Stormwater Management"
	SPEAKERS:	Eric Dodds, Operations Manager, AE_2S Shawn Gaddie, Project Engineer, AE_2S
10:45 a.m.	TITLE:	"Work Zone Traffic Control and Your Responsibilities"
	SPEAKER:	David Levi, Program Manager, Upper Great Plains Transportation Institute, NDSU
11:15 a.m.	TITLE:	"Who Wants to Pay for Infrastructure? The Story of Fargo's Dedicated Infrastructure Sales Tax"
	SPEAKERS:	Eric Dodds, Operations Manager, AE_2S Bruce Grubb, Enterprise Director, City of Fargo
11:45 a.m.		Adjourn All Sessions

SESSION C

Dakota Hall
Moderator: Rick Gillund, Director, NDCAPWA

8:00 a.m.	TITLE:	"Small System Funding Options"
	SPEAKER:	Eric Volk, Field Staff Supervisor/Training Specialist, ND Rural Water Systems Association
8:30 a.m.	TITLE:	"Chemical System Overview - Methods and Standards"
	SPEAKER:	Mike Berg, Water/Wastewater Services, Ulteig Engineers, Inc.
9:00 a.m.	TITLE:	"Snow and Ice Control in Urban Areas"
	SPEAKER:	Jerome Horner, Associate Research Fellow, Upper Great Plains Transportation Institute, NDSU
10:00 a.m.	BREAK:	South Convention Corridor
10:15 a.m.	TITLE:	"Pervious Concrete Products"
	SPEAKER:	David Sethre, Marketing Director, ND Ready Mix & Concrete Products Association, Inc.
10:45 a.m.	TITLE:	"Pervious Concrete Products" continued
11:15 a.m.	TITLE:	"Planning for Your Utility's Financial Future"
	SPEAKER:	Matthew Buckley, Financial Analyst, AE_2S
11:45 a.m.		Adjourn All Sessions

12:00 p.m. Joint Luncheon and Business Meetings, NDWEA and NDWPCC // NDWEA President Richard Wanner Presiding, NDWPCC President Mark Blonigen Presiding
Guest Speaker: Water Environment Federation Representative

JOINT MEETING OF THE
NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE

NORTH DAKOTA CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION

NORTH DAKOTA WATER ENVIRONMENT ASSOCIATION

NORTH DAKOTA SECTION OF THE AMERICAN WATER WORKS ASSOCIATION

OCTOBER 24, 25, AND 26, 2007
FARGO, NORTH DAKOTA
HOLIDAY INN

DESK REFERENCE GUIDE
TO
EXHIBITORS IN THE
TABLETOP DISPLAY PROGRAM

OCTOBER 25, 2007
7:30 a.m. to 11:30 a.m.
CROWNE, ROYALE, AND EMBASSY ROOMS
OF THE GREAT HALL
HOLIDAY INN

Table #1
North Dakota Section of the American Water Works Association Water Taste Test Contest

Table #2
North Dakota Section of the American Water Works Association Water for People

Table #3
North Dakota Water Environment Association

Table #4
North Dakota Chapter of the American Public Works Association

Table #5
Flexible Pipe Tool Co. Nate Petron
30577 Pearl Dr. 320-363-7552
St. Joseph, MN 56374 FAX 320-363-7882
flexiblepipe@victorcc.net
Sales and service of sewer cleaning and inspection equipment. Representatives for Aquatech combination units, Aries video equipment, and Sreco sewer cleaning and inspection equipment. We also carry a full line of accessories, including Euz nozzles and Gamajet cleaning machines for lift stations and manholes.

Table #6
Parsons Engineered Products, Inc. Phil Parsons
3601 Park Center Blvd. 952-926-7000
St. Louis Park, MN 55416 FAX 952-925-1323
philip@pep-reps.com
Parsons Engineered Products, Inc. is a manufacturer's rep firm serving the water and wastewater process equipment marketplace. We offer products and services for municipalities and industries alike. Specifically, we offer a wide range of products and services including pretreatment screens and compactors, grit removal and classification systems, aeration, blowers, clarification, sludge dewatering centrifuge and presses, anaerobic digester steel and fabric covers, mixers, FRP covers and domes, plastic biological media for trickling filters and suspended growth systems for BOD and nitrification, and a wide range of odor and corrosion control scrubbers and chlorine scrubbing systems.

Table #7
Concrete, Inc. Richard Edgar
5000 Demers Ave. 701-772-6687
Grand Forks, ND 58201 FAX 701-772-4315
redgar@coninc.net
Concrete, Inc. manufactures and erects precast/prestressed concrete building products.

Table #8
Wunderlich Malec Environmental Jim Ruckheim
5501 Feltl Rd. (Ext. 5850) 952-933-3222
Minnetonka, MN 55343 FAX 952-933-0608
jim.ruckheim@wmeng.com
Wunderlich Malec Environmental specializes in system integration for the water and wastewater market providing a complete range of engineering design services, including SCADA systems, process control, instrumentation, PLC and OIT programming. From our UL approved panel facility through start-up and service, we offer the consistent quality our customers expect. Utilizing the combined pool of experience from Wunderlich Malec Environmental's corporate office in Minnetonka, MN, and 14 branch locations, we provide the service and quality our customers have grown to expect. Wunderlich Malec Environmental is a company with national coverage and local service.

Table #9

MVTL Laboratories — Rod Reetz
1411 - 12th St. S. — 701-258-9720
Bismarck, ND 58504 — FAX 701-258-9724
rreetz@MVTL.com

Minnesota Valley Testing Laboratory (MVTL) was established in 1951 in New Ulm, Minnesota. Branch laboratories are located in Bismarck and Nevada, Iowa. MVTL provides a broad range of analytical services to industry and federal, state, and local governments. The Bismarck laboratory provides analytical chemistry and microbiology support in environmental and energy activities. MVTL also provides full service sampling and field service activities. Each facility is well equipped and staffed with highly qualified technical personnel.

Table #10

Northern Water Works Supply, Inc. — Jud Hamby
1917 - 1st Ave. N. — 701-293-5511
Fargo, ND 58104 — FAX 701-232-8129
jhamby@nwws.biz

We provide water and sewer distribution products, irrigation systems, E-One sewer pumps, geotextiles, polyethylene pipe, fusion equipment, locators, safety equipment, and water meter systems, installation and repair services. We have branch offices in Fargo and Bismarck, ND; Blaine and Sartell, MN; DeKalb, IL; and Madison, WI. We supply products and services to both of the Dakotas, Minnesota, Western Wisconsin, Iowa, and Northern Illinois.

Table #11

American Flow Control — Rick Wanner
21695 Highview Ave. — 612-803-1668
Lakeville, MN 55044 — FAX 205-488-7570
rwanner@acipco.com

American Flow Control manufactures the American Darling and Waterous fire hydrants, AFC resilient wedge gate valves, check valves, fittings, and Trench Adapters. Known as one of the highest quality manufacturers in the industry.

Table #12

ABM Equipment Supply, Inc. — Steve Bergeron
333 - 2nd St. NE — 952-938-5451
Hopkins, MN 55343 — FAX 952-938-0159
scottr@abm-highway.com

ABM Equipment & Supply offers a complete line of truck equipment to the utility, municipal, refuse, recycling, and construction industries. Products are aerial lifts, fiberglass and steel service bodies, hydraulic tools, pressure diggers, snow blowers, asphalt patchers, combination sewer cleaners, sewer jetters, sewer televising equipment, street sweepers, knuckleboom cranes, stick boom cranes, rear loaders, roll-off's, refuse carts, recycling bins, recycling bodies, trailers, and on-board scales. ABM offers sales, rental, service, and field service for these industries. Call 1-800-229-5451.

Table #13

Thein Well Co. — Dan Crannick
11355 Hwy. 71 NE — 800-450-8000
Spicer, MN 56288 — FAX 320-796-2111
dan@theinwell.com

Thein Well Co. is a full service well contractor. We specialize in drilling, service, and maintenance of any type or size of well, as well as well videography, Gamma logging, environmental drilling, and geo-thermal drilling. Thein Well Co. has been providing pure, clean drinking water for over a century across the upper Midwest.

Table #14

North Dakota Sewage Pump Co. — Jim Hughes
1740 Main Ave. E., #3 — 701-282-6760
West Fargo, ND 58078 — FAX 701-282-3579
ndstinker@ideaone.net

We sell and service all makes of wastewater pumps, controls, and all lift station related items. We have been in business since 1973, and are the area distributors for ABS and Goulds wastewater equipment. We specialize in annual service contracts to municipal, state, and industrial lift stations. We have fully equipped pump service rigs available around the clock, and currently sell and service equipment in North Dakota, South Dakota, Minnesota, and Montana.

Table #15

North Dakota LTAP Center — Gary Berreth
UGPTI — 701-328-9856
515 ½ Broadway Ave. E., Ste.101
Bismarck, ND 58501 — FAX 701-328-9866
Gary.berreth@ndsu.edu

ND Local Technical Assistance Program's (NDLTAP) mission is to foster safe, efficient, environmentally sound, and cost-effective highway, road, and street systems by exchanging technology with ND's local units of government and transportation community through training, technical assistance, and information services.

Table #16

Tech Sales Co. — Abraham Salamzadeh
311 - 44th St. W. — 612-823-8238
Minneapolis, MN 55409 — FAX 612-823-4272
salamzadeh@techsalesco.com

Tech Sales Co. specializes in level, flow, sampling, analytical instrumentation, odor control, and gas detection products.

Table #17

AE_2S — Charles Vein
2016 Washington St. S. — 701-746-8087
Grand Forks, ND 58201 — FAX 701-746-0370
Charlie.Vein@ae2s.com

AE_2S is a specialized civil/environmental engineering firm serving clients from offices located in Fargo, Grand Forks, Bismarck, and Williston, ND, and Minneapolis, Brainerd, and Moorhead, MN.
AE_2S has a staff of approximately 65 engineers, technicians, surveyors, financial analysts, computer programmers, and administrative personnel.

AE_2S's primary service is water - meaning water, wastewater, and stormwater system consulting. Surveying, mapping, GIS, civil and electrical engineering, and site development are provided as stand-alone services or in support of our primary services. We also provide value-added services, including financial analysis and utility rate planning, funding development, modeling, instrumentation and controls, and information technology.

Table #18

NDSU Chapter of WEF/AWWA — Christopher Hill
Civil Engineering Dept. — 701-231-8955
PO Box 5285
Fargo, ND 58105

North Dakota State University's Water Environmental Federation/American Water Works Association (NDSU WEF/AWWA) Student Chapter is a proactive group of mainly civil engineering students with a common interest in environmental engineering. During the past academic year, the organization has increased membership over 400%, yielding a total of 35 members; the largest memberships since established in 1995. The Chapter holds monthly meetings on the NDSU campus as well as participates and organizes a number of other activities.

For the past three years, they have participated in the national WEFTEC® Student Design Competition placing 4th, 3rd, and 3rd, respectfully. To inquire more about the NDSU WEF/AWWA Student Chapter, please stop by!

Table #19

Engineering America, Inc. — Tony Belden
647 Hale Ave. N. — 651-777-4041
Oakdale, MN 55128 — FAX 651-777-5312
tbelden@engamerica.com

Engineering America, Inc. sells and constructs equipment for municipal water and wastewater needs. Engineering America, Inc. will act as principal contractor for the erection of liquid storage tanks and as a supplier of process equipment.

Table #20

Veit — Jim Swanson
14000 Veit Place — 763-428-2242
Rogers, MN 55374 — FAX: 763-428-1334
jswanson@veitUSA.com

Founded in 1928, Veit provides services to general contractors, municipalities and private industry. Veit's specialty contracting services include earthwork, demolition, utilities, foundations, and industrial cleaning. Veit's waste management services include roll-off containers, recycling, transfer stations, and landfills.

Table #21

Houston Engineering, Inc. — Kevin Martin, PE
3712 Lockport Street — 701-323-0200
Bismarck, ND 58503 — FAX 701-323-0300
kmartin@houstonengineeringinc.com

Serving clients in the upper Midwest, Houston Engineering, Inc. was established in Fargo in 1968, and has grown to include offices in Minneapolis, MN, Bismarck, ND, Thief River Falls, MN, and Minot, ND.
Services are also provided from Billings, MT, and Barnesville, MN. Services include: engineering, surveying and environmental consulting services; water resources management (water supply, wastewater, waste, watershed, urban stormwater, and lake); hydraulic, hydrodynamic and hydrologic modeling; water supply and drought planning; flood control; flood insurance studies and wetland delineation. Client services also include municipal engineering; transportation engineering; surveying and GIS services; web mapping and database applications, and web page development.

Table #22

Fargo Water Equipment — Jack Hendrickson
4557 - 15th Ave. N. — 701-237-0222
Fargo, ND 58102 — FAX 701-237-9609
jack@FGOH2O.com

Water & sewer products.

Table #23

Sensus Metering Systems, Inc. — Brad Cutler
5227 Brook View Ave. — 515-265-2738
Des Moines, IA 50317

Sensus Metering Systems manufactures water meters and automatic meter reading equipment.

Table #24

Johnston Fargo Culvert, Inc. — Keith Fraase
PO Box 1873 — 701-282-0910
Fargo, ND 58107 — FAX 701-281-1993
kfraase@johnstonculvert.com

Manufacture of corrugated steel pipe, storm sewer drainage pipe, storm water management systems, rehabilitation solutions, flared end treatments, flap gates, and other drainage related items.

Table #25

Uni-Bell PVC Pipe Association — Steve Cooper
302 Bramton Rd. — 502-895-2900
Louisville, KY 40207 — FAX 502-895-2900
scooper@uni-bell.org

Uni-Bell serves the engineering, regulatory, public health, and standardization communities with integrity and considerable measures of both time and resources. Uni-Bell staff is comprised of design engineers who are experts in design, testing, and installation of PVC pipe systems serving the water and sewer utilities. Uni-Bell engineers commonly address questions and provide information to utility managers, installers, and design engineers.
Steve Cooper is the Uni-Bell PVC Pipe Association engineer assigned to the North Central Region which includes North Dakota.

Table #26

Sweeney Controls Company — Joe Sweeney
234 - 28th St. S — 701-232-3644
Fargo, ND 58103 — FAX 701-232-3635

Sweeney Controls provides control systems and integration services for water and wastewater systems ranging in size from relay based panels for lift stations to completely integrated control systems for large treatment facilities and SCADA systems. With a staff that includes panel builders, field technicians, control engineers, and project engineers, we offer services including consulting, project development, project management, PLC programming, HMI programming, software programming, control panel construction and on-site system commissioning. Sweeney Controls Company is committed to understanding our customers' needs to develop a solution that meets and exceeds their expectations. Our manufacturing facility is UL 508A and 698A certified.

Table #27

Kadrmas, Lee & Jackson, Inc. — Brian Eiseman
PO Box 1157 — 701-355-8446
Bismarck, ND 58502 — FAX 701-355-8781
brian.eiseman@kljeng.com

Kadrmas, Lee & Jackson, Inc. is a multi-disciplined consulting engineering firm providing expertise in several areas including: municipal engineering, transportation engineering, airports, surveying, telecommunications, environmental, land-use planning, GIS, and alternative energy development.

Table #28

SJE-Rhombus Controls — Marty Grabarkewitz
PO Box 1708 — 218-847-1317
Detroit Lakes, MN 56502 — FAX 218-847-4801
marty.grabarkewitz@sjerhombus.com

For over 30 years, SJE-Rhombus has been an industry leading manufacturer of innovative control solutions for water, wastewater, and custom embedded controls, for residential, commercial, industrial, and municipal applications. Our complete product line includes pump switches, control switches, Tank Alert alarm systems, Build-A-Panel control panels, engineered custom control systems, embedded controls, and a full line of accessories. As a 100% employee-owned company, SJE is committed to designing and manufacturing superior products, while providing exceptional customer service. To learn even more about SJE-Rhombus and our quality products, please visit our web site at www.sjerhombus.com.

Table #29

Bartlett and West — Joe Bichler
3456 Century Ave. E. — 701-258-1110
Bismarck, ND 58503 — FAX 701-258-1111
joe.bichler@bartwest.com

Formed in 1951, Bartlett and West is an employee-owned, multi-discipline professional engineering firm that consistently ranks as one of ENR's Top 500 Design Firms.

The firm employs 300 personnel in offices in Bismarck, South Dakota, Iowa, Kansas, Missouri, and Texas. The Bismarck office has grown to 44 staff members, comprised of North and South Dakota natives. Along with growth in employees, the office has expanded the services offered and broadened the type of clients served. The office currently provides clients with professional services for municipal projects, land development projects, rural and regional water projects, and irrigation projects in North and South Dakota. In addition to professional engineering services, Bartlett and West's specialties include global positioning system surveys, geographical information systems, large water transmission pipeline design and construction inspection, water main design, hydraulic modeling, construction inspection and administration, environmental assessments, water source investigations, water storage tank design, and water pump station design.

Table #30

General Repair Service — Jim Paulsen
923 - 12th St. S — 701-219-3976
Moorhead, MN 56560 — FAX 218-233-5935
jimp@generalrepair.com

Sales and service of pumps and controls for the water and wastewater industry. Products include Gorman Rupp pumps, Grundfos pumps, and Peerless pumps.

Table #31

KLM Engineering, Inc. — Shawn Mulhern
3394 Lake Elmo Ave. N. — 651-773-5111
Lake Elmo, MN 55042 — FAX 651-773-5222
smulhern@klmengineering.com

KLM Engineering, Incorporated, Lake Elmo, Minnesota is a structural engineering and inspection firm staffed by experienced, registered professionals. KLM's staff has over 150 years of experience in the welding and painting industry, and employs one of the largest certified NACE coatings, AWS welding, and API-653 inspection staffs in the nation.

Since our beginning in 1995, KLM has successfully completed over 450 projects.

KLM responsibilities include assisting in drawing reviews, reviewing welder certifications, perform in-shop weld and coating inspections, weld inspection during tower construction, coating inspection during field painting, attend pre-construction meetings, progress meeting, and perform a warranty inspection.

Table #32

Tonka Equipment Company — Todd Butz
13301 Watertower Circle — 763-559-2837
Plymouth, MN 55441 — FAX 763-559-1979
Czehrer@tonkawater.com

Tonka Equipment Company creates customized water treatment systems for municipalities across the United States and abroad. Our designs provide engineers cost-effective solutions for the most challenging surface and ground water problems.

Tonka's Simul-Wash™ combined air/water backwash system provides superior media cleaning while reducing backwash water volume by 50%. Tonka provides solutions for iron, manganese, arsenic, radium, and nitrate removal through our broad range of products.

Table #33
Ford Meter Box — Joe Kniseley
PO Box 32 — 715-896-0896
Taylor, WI 54659 — FAX 715-662-3905
jkniseley@fordmeterbox.com
Ford Meter Box is a manufacturer of waterworks brass and pipe products, and Uni-Flange restraint products. www.fordmeterbox.com

Table #34
Sanitation Products, Inc. — Chris Haugrud
1402 - 41st St. NW — 701-282-0296
Fargo, ND 58102 — FAX 701-277-1149
weimlovr@aol.com
Vactor Manufacturing and Sewer Equipment of America.

Table #35
Widseth Smith Nolting — Dan Johnson
2715 Washington St. S. — 701-795-1975
Grand Forks, ND 58208 — FAX 701-795-1978
dan.johnson@wsn-mn.com
Widseth Smith Nolting is a multi-disciplined firm that has been providing professional services since 1975. Our team of registered engineers, architects, environmental scientists, and land surveyors works together to provide comprehensive, coordinated services. WSN specializes in municipal engineering and serves over 70 communities. We focus on municipal and industrial wastewater collection and treatment; water storage, treatment, and distribution, including rural water systems; streets and highways; drainage; and site evaluation and engineering. Offices are located in Grand Forks, ND, and Alexandria, Bemidji, Brainerd/Baxter, and Crookston, MN.

Table #36
Advanced Drainage Systems

Table #37
Hawkins, Inc. — Kollin Syverson
Hawkins Water Treatment Group — 701-462-8588
3100 Hennepin Ave. E. — FAX 701-462-8247
Minneapolis, MN 55413
kollin.syverson@hawkinsinc.com
Hawkins Water Treatment Group has been meeting the requirements of commercial, industrial, municipal, and institutional organizations in the upper Midwest since 1938.

Table #38
INFRATECH — Jeff Janiksela
21040 Commerce Blvd. — 763-428-6488
Rogers, MN 55374-9341 — FAX 763-428-6489
john@infratechonline.com
No Dig! Restoration of wastewater collection systems. "QUADEX" spray composite, and "MONOFORM" poured in place concrete liners, for manholes, lift stations, wet wells, etc., I&I control specialist "DeNeef" urethane grout. Cured in place pipe & stainless steel "Link-Pipe" repairs, Re-rounding deflected flexible pipe, vacuum / pressure testing, Jet/Vac cleaning & televising services, Poly-pig cleaning, Smoke and dye-water testing. Hydro-blast root / mineral removal, "Vapor-Rooter" foaming, Bucket machine cleaning. Confined space & Safety equipment, "Biosystems" gas monitors, tripods / harnesses, Portable and mainline camera equipment, Line and cable locators, Jetter replacement parts; i.e., custom nozzles, hoses, suction tube, etc.

Table #39
Interstate Engineering, Inc. — Darrell Hournbuckle
PO Box 2035 — 701-252-0234
Jamestown, ND 58401 — FAX 701-252-0203
darrellh@iengi.com
Since 1976, Interstate Engineering, Inc. has offered consulting engineering, land surveying and planning services to municipal, county, state, and tribal governments and to private individuals and corporations.
A regional corporation, Interstate is owned under an Employee Stock Ownership Plan (ESOP). The plan rewards eligible employees for long and loyal service by providing them with retirement benefits. The corporate office for Interstate is located in Jamestown, North Dakota. The firm has additional offices located in Wahpeton, Beulah, and Mandan, North Dakota; Fergus Falls, Minnesota; Billings and Sidney, Montana; and Pierre, South Dakota.
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Detroit Lakes, MN 56502 — FAX 218-846-9491
terry@teamlab.net
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Table #41
Griffen Pipe — Justin Eriksen

Table #42
SVL — Brian Peterson

Table #43 & #44
Ulteig Engineers — Tom Welle
3350 - 38th Ave. S. — 701-237-3211
Fargo, ND 58104 — FAX 701-280-8739
tom.welle@ulteig.com
Ulteig Engineers, Inc. was founded in 1944 and is an employee-owned, multi-discipline professional engineering firm, with offices located in Fargo and Bismarck, North Dakota; Detroit Lakes and Minneapolis, Minnesota; and Sioux Falls, South Dakota.
Ulteig Engineers currently employs over 325 personnel, and continues to be recognized as one of ENR's Top 500 Design Firms. Our core engineering services include civil, structural, electrical, and mechanical engineering. We specialize in all aspects of water, wastewater, and water resource planning, design, and construction engineering.

Table #45
American Ductile Iron Pipe — Brad Forester
21695 Highview Ave. — 952-469-1100
Lakeville, MN 55044 — FAX 952-469-3311
bforester@acipco.com

American Cast Iron Pipe Company manufactures ductile iron and steel pipe, fittings, and fabrications for the water and wastewater industry. American provides high quality products, services, and technical sales and engineering support to owners, consulting engineers, and contractors. www.acipco.com

Table #46
Construction Specialties — Rocky Waldin
7100 Utica Lane — 612-860-0803
Chanhassen, MN 55317 — FAX 952-470-0342
rockyw@minn.net

Manufacturers' representative working with Cretex Specialty Projects, supplying a line of manhole and pipe sealing products. Also works with APM/Permaform, offering manhole spraylining and cast-in-place structural rebuilding.

Table #47
Cretex Concrete Products — Dale Heglund
925 Basin Ave. — 701-223-7178
Bismarck, ND 58504 — FAX 701-223-5620
dheglund@cretexwest.com

Cretex has proudly supplied quality precast concrete products for North Dakota since 1926. Focus on innovative designs and products that compliment the long-lasting properties of concrete allows Cretex to meet and exceed the demands of rural and urban North Dakota infrastructure developments.
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Table #48
SolarBee, Inc. — Bill Reiter
PO Box 1930 — 866-437-8076
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BillR@Solarbee.com

SolarBee solar-powered circulators can be deployed to provide water quality improvements in the following applications:
In wastewater lagoons. The SolarBee improves CBOD and TSS treatment, reduces ammonia and enhances sludge digestion. If you have high energy costs for aeration, the SolarBee can displace much of the aeration mixing run-time hours providing a quick payback.
In potable/finished water tanks/reservoirs. The SolarBee is an excellent solution for solving mixing problems in potable/finished water reservoirs/tanks. Most reservoirs have one inlet and outlet, have stratification problems and many tanks are oversized for future growth and for fire protection. Stagnant water conditions can be even more of an issue in Chloramine based systems.

Table #49
Jasper Engineering — Steve Layton
PO Box 57 — 701-447-2263
Mercer, ND 58559 — FAX 701-447-2763
slayton@jaspereng.com

Valves, instruments, and specialty products for the water and wastewater industries. Product lines include Red Valve, Tideflex Technologies, ABB, Siemens, FCI, Wika Instrument, Tsurumi Pump, Mettler-Toledo, and Pro-Environmental.

Table #50
Prinsco, Inc. — Tom Bakker
108 Hwy 7 W — 800-992-1725
Prinsburg, MN 56284 — FAX 320-978-8602
tomb@prinsco.com

Prinsco, Inc. is a leading manufacturer of Goldflo Dual Wall and Goldline Singlewall HDPE pipe used for storm sewer, culvert, and other drainage applications. Prinsco also supplies many other products used in water management projects.

Table #51
Promium, LLC — Ronnie Bryce

Table #52
Vessco, Inc.

Table #53
Insituform Technologies, Inc. — Jerry Brown
11702-B Grant Rd., Ste.127 — 281-796-0535
Cypress, tX 77429 — FAX 281-320-9848
jbrown@insituform.com

Insituform Technologies, Inc. rehabilitates sewer and water pipelines using proven trenchless technologies. Our cured-in-place process, used globally, restores structural integrity and repairs deteriorating pipes for municipalities, as well as federal, industrial, and transportation industries.

Table #54
HDR Engineering, Inc. — Greg Stonehouse
701 Xenia Ave. S — 763-278-5962
Minneapolis, MN 55416 — FAX 763-591-5413
greg.stonehouse@hdrinc.com

HDR is an architectural, engineering, planning, and consulting firm that excels at helping clients manage complex projects and make sound decisions. As an integrated firm, HDR provides a total spectrum of services for our clients. Our staff of professionals represents hundreds of disciplines and partner on blended teams nationwide to provide solutions beyond the scope of traditional A/E/C firms.
HDR's operating philosophy is to be an expertise-driven national firm that delivers tailored solutions through a strong local presence. HDR's ability to draw upon companywide resources and expertise is a great strength in meeting and exceeding your expectations.

CONFERENCE HISTORY

Conference	Host City	President	President's Residence
2007	Fargo	Mark Blonigen	Fargo
2006	Minot	Tom Welle	Moorhead
2005	Bismarck	Jack Long	Bismarck
2004	Fargo	Rick Gillund	Enderlin
2003	Minot	Mike Schneider	Bismarck
2002	Bismarck	Pat Denne	West Fargo
2001	Fargo	Charles Jaszkowiak	Bismarck
2000	Dickinson	Randal Loeslie	Thompson
1999	Minot	Paul Lacina	Valley City
1998	Bismarck	Mel Bullinger	Bismarck
1997	Fargo	Wayne Tunseth	Mayville
1996	Minot	Don Olafson	Valley City
1995	Bismarck	Waide Kritsky	Jamestown
1994	Fargo	Byron Thronson	Minot
1993	Minot	Joe Manning	Fargo
1992	Bismarck	Tom Little	Mandan
1991	Fargo	Richard Wanner	Bismarck
1990	Williston	Richard Resell	Williston
1989	Minot	Dwight Wurzbacher	Grand Forks
1988	Grand Forks	Phil Furaus	Harvey
1987	Dickinson	Dale Hanson	Valley City
1986	Bismarck	Dan Boyce	Grand Forks
1985	Fargo	Lyle Weeks	Minot
1984	Williston	Kenneth Reynolds	Bismarck
1983	Minot	Dale Townsend	Carrington
1982	Mandan	Peter Bilstad	Fargo
1981	Jamestown	Don Cuskelly	Dickinson
1980	Grand Forks	Don Erikson	Watford City
1979	Bismarck	Ken Skuza	Fargo
1978	Dickinson	Gerald Zander	Mandan
1977	Fargo	Keith Cornell	Grand Forks
1976	Minot	Peter Mellmer	Bismarck
1975	Mandan	Lyle Mitzel	Wahpeton
1974	Grand Forks	Daniel Reiter	Minot
1973	Jamestown	Russell Kain	Neche
1972	Williston	John Muus	Grand Forks
1971	Fargo	Donald Wenaas	Jamestown
1970	Minot	Harry Hanson	Bismarck
1969	Bismarck	Clarence Johnson	Garrison
1968	Dickinson	Bevan Shaw	Williston

Conference	Host City	President	President's Residence
1967	Grand Forks	A.E. Forsman	Grand Forks
1966	Mandan	Alvin Mickelson	Casselton
1965	Fargo	Ken Ruby	Fargo
1964	Minot	Al Swanson	Jamestown
1963	Valley City	Carl Torkelson	Grafton
1962	Williston	Glenn Berg	Minot
1961	Jamestown	Richard Fuller	West Fargo
1960	Bismarck	Frank Orthmeyer	Grand Forks
1959	Grand Forks	Herbert Arnold	Williston
1958	Dickinson	L.W. Veigel	Dickinson
1957	Fargo	Erik Peterson	Jamestown
1956	Mandan	Edwin Ostlie	Grand Forks
1955	Williston	Paul Hays	Minot
1954	Grand Forks	C.M. Hagen	Oakes
1953	Minot	C.T. Stephenson	Jamestown
1952	Jamestown	Ed Booth	Bismarck
1951	Fargo	H.H. Behlmer	Fargo
1950	Bismarck	A.F. Hulteng	Grand Forks
1949	Dickinson	George Toman	Mandan
1948	Minot	R.J. Lockner	Cooperstown
1947	Grand Forks	John Kleven	Grand Forks
1946	Mandan	S.K. Svenkeson	Minot
1945	Fargo	F.W. Pinney	Fargo
1944	Bismarck	Dave MacDonald	Bismarck
1943	Grand Forks	Joe Morrissey	Jamestown
1942	Williston	Elmer Pearson	Minot
1941	Jamestown	R.M. Jenson	Grand Forks
1940	Wahpeton	William Nordley	Edgeley
1939	Dickinson	William Yegen	Bismarck
1938	Minot	S.S. Calvelage	Jamestown
1937	Mandan	Ora Ayliffe	Fargo
1936	Fargo	S.P. Ravnos	Mandan
1935	Grand Forks	H.T. Hintgen	Wahpeton
1934	Bismarck	W.H. Robinson	Williston
1933	Jamestown	O.N. Bergman	Valley City
1932	Minot	E.L. Lium	Grand Forks
1931	Fargo	W.P. Tarbell	Fargo
1930	Grand Forks	E.J. Thomas	Minot
1929	Bismarck	A.L. Bavone	Bismarck

Joseph P. Mantua

President (2007-2008), American Water Works Association

Joe Mantua

After Joe Mantua joined AWWA in 1987, he found that AWWA provided excellent opportunities to exchange information, establish relationships, learn and have fun. He has chaired numerous Chesapeake Section committees: Community Relations, Spring Meeting, Program, Regional Activities, Strategic Planning, Distribution Systems, Nominations, Finance and Awards. He was a section trustee from 1998 to 2000, section chair in 2001–2002 and director starting in 2005. An AWWA Board member, he is serving on the Conference Management and Young Professionals committees.

He was a founding member of the Scholarship Board at the WSSC, which provides college scholarships to children of commission employees. He has been a long-time mentor, a career-day speaker, a science fair judge and participant with the Adopt-A-School Program. He recently completed his second term as the management advisor to the company's employee council. His employer gave him the Materials and Services Division Manager's Award in 2000.

Joe currently serves as the Project Delivery Group Leader for the Washington Suburban Sanitary Commission. This group administers facility and major pipeline designs; manages facility planning studies, special projects and other miscellaneous contracts; and is also responsible for the construction management and inspection of major facility projects.

In 2005, Joe received the Malcolm Shaneman Quality of Life Award from the Maryland National Capital Building Industry Association, This award is given to a public sector person who demonstrates concern for Montgomery County quality of life and fosters partnerships with the housing industry. Honing his speaking skills in Toastmasters International, he has twice received the Best Technical Presentation Award at the Chesapeake Section annual meetings in 1990 and 2004. He has a bachelor's degree in civil engineering and is a registered professional engineer.

Joe and his wife, Juliann, live in Gathersburg, Maryland.

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Larry Frevert, P.E.

President, American Public Works Association

Larry Frevert

Larry Frevert, P.E., is a municipal program manager for HDR Engineering, Inc., in Kansas City, Missouri. He is currently serving as president of the American Public Works Association.

Frevert has worked in the public works field for 36 years, working mostly in state and city government. He worked for the Kansas City, Missouri Public Works Department as the Division Engineer - Street and Traffic for nine years and was Deputy Director of Public Works for eight years. He also served two years for the Kansas City, Missouri Parks and Recreation Department as Assistant Engineering Director. In his role as municipal program manager for HDR Engineering, he helps local governments with their public works projects.

Frevert is a Past President of the Kansas City Metro Chapter, served as the chapter's alternate delegate, and was the Vice General Chairman of the 2002 Congress Host Committee and General Chairman of the 1997 North American Snow Conference Host Committee. He has served at the national level on the Finance Committee (2001-05; Chair, 2005-06); Engineering and Technology Committee (Chair, 2001-02); Congress Site Selection Committee (1997-2001; Chair, 1998-2001) and as the board liaison to the Fleet Services Committee (2002-06) and Facilities and Grounds Committee (2002-06).

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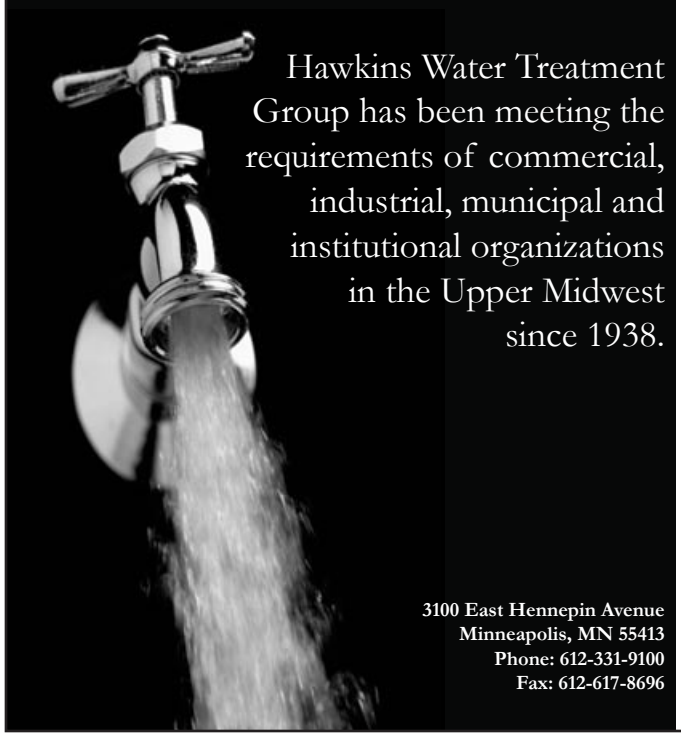

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Black Hawk, SD	605-787-6881
Eldridge, IA	563-285-6234
Fargo, ND	701-293-9618
Fond du Lac, WI	920-923-1850
Joliet, IL	815-727-2750
Lincoln, NE	402-420-0755
Minneapolis, MN	612-331-9100
Sioux Falls, SD	605-368-5793
Slater, IA	515-685-2250
Superior, WI	715-392-5121
Washburn, ND	701-462-8588

HAWKINS Water Treatment Group

The Ground Water Rule - Just the Facts

Gary Stefanovsky, Environmental Scientist, Division of Municipal Facilities, North Dakota Department of Health

Twenty years after Congress directed it, the U.S. Environmental Protection Agency (EPA) issued regulations requiring all public water systems (PWSs) that use ground water as their drinking water source to test these sources for viruses and bacteria. The goal of the Ground Water Rule (GWR) is to help reduce the spread of infectious disease.

Approximately 147,000 PWSs in the United States use ground water sources, supplying drinking water to 114 million people. More than 60 percent of these people receive water that is not disinfected or disinfected to less than a 4-log (99.99 percent) inactivation or removal of viruses.

The Centers for Disease Control and Prevention states more than half of all waterborne disease outbreaks in the United States between 1991 and 2000 were associated with ground water systems. The EPA web site indicates 16.4 million cases of gastrointestinal disease each year may be attributable to drinking water delivered by the PWS. EPA projects that the GWR will prevent 42,000 viral illness and one death annually.

EPA published the proposed GWR in the Federal Register in May of 2000 and made the GWR final in October 2006 with a compliance date of December 1, 2009.

The GWR was designed to identify those ground water systems that are most at risk to fecal contamination, because it's these systems that may be supplying water containing microbial pathogens. For the first time, there is a federal requirement for sanitary surveys of all ground water PWSs. The GWR may require source water monitoring, corrective action, compliance monitoring and reporting.

States must perform sanitary surveys for all ground water PWSs, and each survey must include the evaluation of eight components:

- source
- treatment
- distribution system
- finished water storage
- pumps, pump facilities and controls
- monitoring, reporting and data verification
- water system management and operation
- operator compliance with state requirements

States must complete the initial sanitary survey of most ground water PWSs by December 31, 2012, and those must be re-surveyed every three years thereafter. Sanitary surveys of community PWSs that meet performance criteria and non-community PWSs must be completed by the end of 2014, and every five years thereafter.

The surveys will identify significant deficiencies that are causing or have the potential to cause the contamination of water delivered to customers. The GWR provides a list of defects in design or operation that would be significant deficiencies. These include, but are not limited to:

- the location of a well near a source of fecal contamination (such as a failing septic system, leaking sewer line or feed lot)
- the inadequate application of treatment chemicals
- the entrance of contaminants into distribution systems
- inadequate cleaning and maintenance of storage tanks
- inadequate recordkeeping
- the lack of an approved emergency response plan
- the lack of operator certification or training

The rule requires source water monitoring to test for the presence of one of the three fecal

indicators: E. coli, enterococci or coliphage. Source water monitoring is "triggered" in ground water systems that do not provide at least 99.99 percent (4-log) inactivation or removal of viruses through treatment when a routine Total Coliform Rule (TCR) sample tests positive for total coliform. After a TCR positive result, the PWS must take a ground water sample within 24 hours from each ground water source that was in operation at the time of the TCR positive. This will help determine if the ground water sources are contaminated with fecal indicator organisms. Note that the GWR source water samples are not to be confused with the TCR repeat sampling that needs to be accomplished whenever a TCR positive has occurred. PWSs that are consecutive users have 24 hours to contact their water supplier, and the water supplier has 24 hours to sample the sources that were in use at the time of the TCR positive. The compliance date for triggered source water monitoring is December 1, 2009.

Public Water Systems that have ground water sources must implement the rule by December 1, 2009.

States may require ground water PWSs to conduct source water assessments at any time to help identify high risk systems. EPA recommends that states use data collected under the Wellhead Protection Program, Source Water Protection Program such as the Hydrogeologic Sensitivity Assessments, TCR and other information to identify those PWSs at high risk for contamination. If systems are identified, they must take monthly samples and test them for one of the three fecal indicators.

If a significant deficiency is identified, or if the triggered or assessment monitoring indicates fecal contamination in the ground water source, the GWR requires the PWS to implement at least one of the four following corrective actions within 120 days:

- correct all significant deficiencies
- provide an alternate source of water
- eliminate the source of contamination
- provide treatment that reliably achieves at least 4-log treatment of viruses

If the source water monitoring indicates fecal contamination in a ground water source, the PWS must notify the state and its consumers. Also, if the sanitary surveys identify any significant deficiencies, the PWS must inform its consumers of any that remain uncorrected.

EPA estimates the cost of implementing the GWR to be $62 million dollars annually; PWSs will incur about 81 percent of these costs, and states will cover the remaining 19 percent. Households that receive drinking water from PWSs using ground water sources will experience increased costs of $0.21 to $16.54 per household per year. This estimate is a calculated average that includes all the PWSs that will not need to add treatment. The wide range is necessary because PWSs serving fewer households have higher average annual per household costs. For PWSs that will need to take corrective actions, the average household cost of the rule will range from $0.45 to $52.38 per household per year.

States have less than two years to adopt the GWR, and PWSs that have ground water sources must implement the rule by December 1, 2009. EPA is to issue guidance documents to help states and PWSs comply with the GWR. Some PWSs may want to make changes soon to ensure compliance will be achievable in the near term, and some may need to make budget adjustments to prepare for increased costs.

If you have further questions on the GWR, contact Gary Stefanovsky, North Dakota Department of Health, at 701-328-5287 or gstefano@nd.gov.

NDWPCC Proposes Changes to the Constitution and Bylaws

The Executive Committee of the North Dakota Water and Pollution Control Conference (NDWPCC) has proposed changes to the Conference's constitution and bylaws. The proposed changes will be voted on by eligible members attending the Conference's business meeting. That meeting will be held on Friday, October 26, 2007, at 12:00 PM in the Fargo Holiday Inn.

The proposed changes are to update and make corrections to both the constitution and bylaws of the NDWPCC. The updates are in the sections concerning Honorary Life Members, the Conference year and admission to the Conference. All changes are indicated by bold type. Words and punctuation being removed have strike-outs through them, and words and punctuation being added are underscored. Questions concerning the proposed changes can be directed to members of the Constitution and Bylaws Committee: Lisa Ansley at 701-221-0530; lisa.ansley@AE2S.com; Jack Long at 701-221-0530; jack.long@AE2S.com; Larry Thelen at 701-328-5257; lthelen@nd.gov.

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Fax: (204) 449-2244

CONSTITUTION AND BYLAWS of the NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE

CONSTITUTION

ARTICLE I. NAME

The name of this organization shall be the North Dakota Water and Pollution Control Conference.

ARTICLE II. PURPOSE

The purpose of this Conference shall be:

Section 1. General. This Conference is organized exclusively for educational and scientific purposes, including those purposes that qualify it as an exempt organization under Section 501(c)(3) of the Internal Revenue Code or of the corresponding provisions of any future Revenue Code.

Section 2. Specific. The advancement of the knowledge of design, construction, operation, and management of water and wastewater systems.

Section 3. Specific. The promotion and encouragement, through annual meetings or otherwise, of an exchange of information and experience among its membership.

Section 4. Specific. The promotion and encouragement of the protection of public health and improved environment through the construction and efficient operation of water supply and wastewater treatment facilities.

Section 5. Specific. The promotion of water and wastewater system operator education and certification programs.

ARTICLE III. MEMBERSHIP

The membership of the Conference shall consist of persons or groups of persons having the qualifications of membership as prescribed in the Bylaws who are interested in any of the objectives of the Conference.

ARTICLE IV. OFFICERS

Section 1. All officers shall be Active Members of the Conference. The officers of the Conference shall be a President, a President-elect, a Vice President, Five (5) Directors, at least one of whom shall be an Associate Member, and a Secretary-Treasurer. If deemed necessary by the ~~membership~~ **Executive Committee,** an Assistant Secretary-Treasurer may be added to the list of elected officers.

Section 2. The officers so noted in the preceding Section 1. shall constitute the Executive Committee.

Section 3. The term Active Member as used in this Constitution shall include all persons having the rights and privileges of Active Members under the Bylaws.

ARTICLE V. ELECTION OF OFFICERS

At the beginning of each annual meeting, the President shall appoint a Nominating Committee consisting of three (3) Active Members who shall prepare a list of nominees, at least one for each elective office about to become vacant, and shall submit their report ~~to~~ **at the annual meeting**. Following the Nominating Committee report, the President shall call for additional nominations from the floor. If more than one name is placed in nomination for any office, voting shall be by ballot. Candidates receiving the majority vote shall be deemed elected.

ARTICLE VI. TERMS OF OFFICE

Section 1. The term of office for all officers, except the Director**s** as noted in the following Section 2., shall be for one (1) year.

Section 2. The Associate Director shall be elected for a one (1) year term. The other four Directors shall be elected for four (4) year staggered terms (two of the first Directors shall be elected for two (2) year terms, after which subsequent terms of office shall be for four (4) years).

Section 3. The Secretary-Treasurer and the Assistant Secretary-Treasurer may hold office(s) for more than one year consecutively. All other officers shall not hold any one office for more than one consecutive term.

~~**Section 4. The position of Associate Director cannot be filled by a representative of any one firm, company, or corporation more than once in every five (5) year period.**~~

Section ~~**5**~~ **4.** The term of office for all officers shall begin immediately following their election at the annual meeting at which they were elected, and continue through the next annual meeting or until their successors are elected and qualified.

ARTICLE VII. DISSOLUTION

Upon dissolution of the Conference, the Executive Committee shall, after paying or

ENGINEERING AMERICA, INC.

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647 Hale Ave N
Oakdale, MN 55128
Ph: 651-777-4041
Fax: 651-777-5312
www.engamerica.com

Anthony (Tony) J. Belden
Cell: 612-868-1097
tbelden@engamerica.com

Matthew Fritze
Cell: 952-239-2264
mfritze@engamerica.com

making provisions for the payment of all of the liabilities of the Conference, dispose of all of the assets of the Conference exclusively for the purposes of the Conference in such a manner or to such organization or organizations organized and operated exclusively for charitable, educational, religious, or scientific purposes as shall at the time qualify as an exempt organization or organizations under Section 501(c)(3) of the Internal Revenue Code, or corresponding provision of any future Internal Revenue Code, as the Executive Committee shall determine. Any such assets not so disposed of shall be disposed of by the District Court of the County in which the principal office of the Conference is then located exclusively for such purposes or to such organization or organizations as said Court shall determine which are organized and operated exclusively for such purposes.

ARTICLE VIII. AMENDMENTS

Amendments to this Constitution may be proposed by the Executive Committee or by petition to the Committee by ten (10) or more Active Members. Upon instructions by the Executive Committee, the Secretary shall mail notices and the text of the proposed amendments to each member of the Conference at least thirty (30) days before it is voted on. A two-thirds majority vote by members present at the annual meeting is required for passage. The Executive Committee may, at their discretion and if time is of essence, call for a mail vote. If this option is taken, the above mailing of notice requirements applies and a two-thirds majority mail vote is required for passage of the proposed amendment(s). The Executive Committee shall, on a mail ballot, designate the date when ballots must be returned. The date shall not be sooner than thirty-five (35) days from the date of mailing of the notices and text of the amendments.

Future NDWPCC Locations and Dates

Bismarck, October 8-10, 2008
Minot, October 20-22, 2009
Fargo, October 12-14, 2010

BYLAWS

ARTICLE I. MEMBERSHIP CLASSIFICATION

Section 1. Members of this Conference may be Active Members, Associate Members, Corporate Members, or Honorary Life Members.

Section 2. An Active Member shall be any person engaged in, or interested in, any aspect related to the field of public water supply and wastewater systems and in the advancement of knowledge relating to the objectives of the Conference.

Section 3. An Associate Member shall be either a person, firm, or corporation engaged in the manufacturing or furnishing of services, materials, or supplies for the construction or maintenance of water or wastewater systems.

Section 4. A Corporate Member shall be any organization, private or governmental, engaged in the design, construction, operation, or maintenance of water supply or wastewater systems or be engaged in, or interested in, the objectives of the Conference. A Corporate Member shall be entitled to one representative whose name shall appear on the roll of members and who shall have the rights and privileges of an Active Member. This representative may be changed at the convenience and pleasure of the Corporate Member on written notice to the Conference Secretary.

Section 5. Honorary Life Members may be recommended by the Executive Committee from names presented to the Secretary by any Conference member. Persons selected for such honors shall have been outstanding Conference members and supporters of the Conference objectives. They shall have been Active Members for twenty (20) years or more and have attained the age of sixty-two (62) or more. Honorary Life Members shall have all the rights and privileges of Active Members but shall not be charged annual Conference dues. The names of Active Members recommended for Honorary Life Membership shall be submitted to the membership at the annual meeting for approval or disapproval. The 20-year or more membership **and the age of 62** requirement**s** **may be waived** ~~**in the instances of exemplary service to and support of the Conference**~~ **at the discretion of the Executive Committee**.

ARTICLE II. ADMISSION

Section 1. Any person or organization eligible for membership~~,~~ **and** desiring to become a member of the Conference, shall make ~~**a written request for admission and submit the request, accompanied by**~~ payment of the current appropriate dues to the Conference Secretary. If there is no question of eligibility of the applicant, the Secretary shall accept the application and so notify the applicant.

Section 2. Where there is a question of eligibility, the Secretary shall submit the application to the Executive Committee for consideration. A majority vote of the Executive Committee shall be required for approval of the applicant for membership.

ARTICLE III. FEES AND DUES

Section 1. The annual Conference dues for all membership classes, except Honorary Life Members, shall be those currently established by the Executive Committee and approved by **a majority vote** of the membership **present** at an annual meeting. Honorary Life Members shall not be charged dues.

Section 2. Annual dues shall be payable ~~**in advance and shall be due**~~ the first day of the Conference ~~**annual meeting**~~ **year.**

Section 3. The Conference Secretary, at the annual meeting of the Conference, may accept the appropriate dues for other organizations, etc., which have been affiliated with the Conference in accordance with Article VII of these Bylaws. The Conference Secretary shall record and remit such dues to the designated officer of the appropriate affiliated organization.

ARTICLE IV. CONFERENCE YEAR

Section 1. The Conference year shall begin ~~**with the calling to order of the regular annual meeting**~~ **on the first day of January** and terminate as of the close of business on the **last** day ~~**preceding the next regular annual meeting**~~ **of December.**

ARTICLE V. ANNUAL MEETING

Section 1. The annual meeting of the Conference shall be held at a place determined by the ~~**membership in attendance at the preceding annual meeting**~~ **Executive Committee at an official session.** ~~**However, should the membership not make such a determination, the Executive Committee at an official session shall select the place for the annual meeting.**~~

Section 2. The dates for the annual meeting shall be set by the Executive Committee at an official session.

ARTICLE VI. DUTIES OF OFFICERS

Section 1. The Executive Committee shall direct the management of the affairs of the Conference and shall make the necessary arrangements for the annual meeting and shall have the power to fill any vacancy of office that may occur between annual meetings. The Executive Committee shall meet at least two (2) times during the Conference year, one such meeting to be at the time of the annual meeting. ~~**Six (6) members**~~ **A majority** of the Executive Committee shall constitute a quorum and all actions shall be by majority vote. Special meetings may be called if deemed necessary by the Executive Committee.

Section 2. The Conference President shall be chairman of the Executive Committee and shall preside at **executive** committee meetings, special meetings, and at the business sessions of the annual meeting.

Section 3. The President-elect shall perform the duties of the President in the event the President is unable to perform. In the absence of both the President and President-elect, the Vice President shall be the presiding officer.

Section 4. In addition to the nominating committee provided for in Article V. of the Constitution, the President is empowered to appoint such additional committees as may be required to serve the best interests of the Conference and to fulfill its objectives.

Section 5. The Secretary-Treasurer, subject to the direction of the Executive Committee, shall collect all dues and revenues of the Conference, pay all bills against the Confer-

ence, **and** maintain a membership roster~~,~~ and all necessary financial records. The Secretary-Treasurer shall present a report at the annual meeting on all receipts, expenditures and debts of the Conference. In addition, it shall be the duty of this office to maintain a record of all activities of the Conference.

ARTICLE VII. AFFILIATION

Section 1. The Executive Committee of the Conference is authorized to approve affiliation with other local and national organizations, associations, etc., whose interests and objectives are compatible with those of the Conference. The purpose of such affiliation is to serve the best interests of both organizations. Officers of the Conference may also serve as officers of the affiliated organizations.

Section 2. It is hereby declared that nothing in the Constitution of the North Dakota Water and Pollution Control Conference or its Bylaws is intended to be in conflict with the constitution and bylaws of an affiliated organization.

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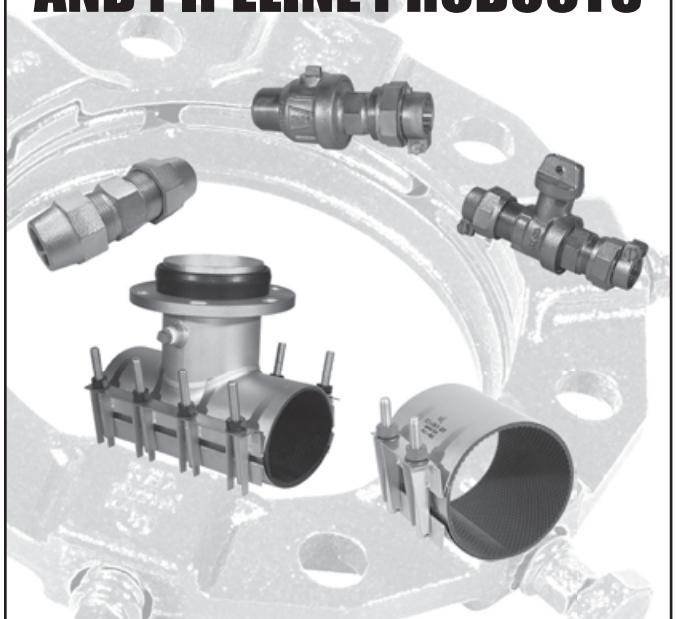

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ARTICLE VIII. AMENDMENTS

Section 1. Amendments to these Bylaws may be proposed by the Executive Committee or by petition to the Committee by ten (10) or more Active Members. Upon instructions by the Executive Committee, the Secretary shall mail notices and the text of the proposed amendments to each member of the Conference at least thirty (30) days before it is voted on. A two-thirds majority vote by members present at the annual meeting is required for passage. The Executive Committee may, at their discretion and if time is of essence, call for a mail vote. If this option is taken, the above mailing of notice requirements applies and a two-thirds majority vote is required for passage of the proposed amendment(s). The Executive Committee shall, on a mail ballot, designate the date when ballots must be returned. The date shall not be sooner than thirty-five (35) days from the date of mailing of the notices and text of the amendments.

We, the undersigned, verify that this is an exact and true copy of the North Dakota Water and Pollution Control Conference's Constitution and Bylaws.

Dated this ____ day of _____, 20 _____

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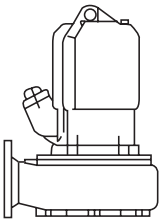

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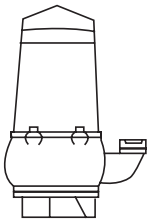

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AWWA Schedules Management Institutes for Autumn 2007

The five-day Basic AWWA Water Utility Management Institute will be presented in Salt Lake City, Utah, September 17-21, 2007, and a second Basic Institute in Salt Lake will be presented November 12-16. All sessions are held at the Comfort Suites Hotel (near the airport) for American Water Works Association (AWWA) members and water department personnel nationwide. This class brings together water company personnel from every region of the county (and Canada as well) in an atmosphere of learning and sharing important leadership principles. This affordable, top-notch training teaches practical, "real world" supervisory and management skills needed to be effective in today's workplace.

The schedule is as follows:

- Day 1 - Foundations of Leadership
- Day 2 - The Leader's Role in Performance Management
- Day 3 - Managing Conflict
- Day 4 - Employee Selection
- Day 5 - The Leadership of Change

The Institute registration fee is $499.00.

An Advanced AWWA Water Utility Management Institute is scheduled at the same location the week of October 15-19, 2007. That schedule is as follows:

- Day 1 - Assessment of Leadership Vision, Values and Strategy
- Day 2 - Team Building
- Day 3 - Employment Law for Managers
- Day 4 - Management of Quality Customer Service
- Day 5 - Critical Thinking Skills for Problem Resolution and Innovation

The Advanced Institute registration fee is $499.00.

Optional certification from Utah State University will be available for $50.00 extra to members needing to meet training requirements for professional affiliations. To obtain the Basic Institute and/or Advanced Institute schedule and registration information, call Chuck Christensen at 801-333-3779, or email him at chuckets@msn.com.

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Membership Application

Step 1 Decide which type of membership works best for you (Individual or Group)

INDIVIDUAL MEMBERSHIP

Available to any official or employee of a governmental agency, manufacturer, supplier, contractor, or consulting firm that is actively engaged in the field of public works. Individual Membership Annual Dues ☐ $129 US ☐ $145 CN

GROUP MEMBERSHIPS

Groups will receive one consolidated renewal notice with a member roster attached. Members may be added or dropped from the roster throughout the year, if necessary.

Public Agency Group Membership

Available to any federal, provincial, state, local or other public agency concerned with public works. The number of individual memberships and the annual fee for an agency are based on the population served by the agency. When joining as an agency, each member saves $22 US ($25 CN) on annual membership dues.

- **State or Provincial Agencies**—Number of rostered members and annual dues for the group would be determined using the "Population Served" row representing 10% of total state population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)
- **County Agencies**—Number of rostered members and annual dues for the group would be determined using the "Population Served" row representing 50% of total county population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)
- **Special Districts**—Number of rostered members and annual dues for the Group would be determined using the "Population Served" row representing 20% of total district population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)
- **All others**—Refer to row representing total population served by the agency. (Mark the category representing total population served by the agency and provide names and contact information for all those who should be included on the group roster).

Population Served	Number of Rostered Members Covered*	Annual Dues ($US)	Annual Dues ($CN)
☐ 0 – 10,000	2	$ 214	$ 240
☐ 10,001 – 25,000	4	$ 428	$ 480
☐ 25,001 – 50,000	6	$ 642	$ 720
☐ 50,001 – 100,000	10	$1070	$1200
☐ 100,001 – 300,000	16	$1712	$1920
☐ 300,001 – 500,000	20	$2140	$2400
☐ 500,001 – 1,000,000	26	$2782	$3120
☐ More than 1,000,000	30	$3210	$3600
☐ Federal Agency	50	$5350	$6000

Corporate Group Membership

Available to any non-governmental entity that furnishes public works services or products, including privately held or incorporated utilities. There are three levels of corporate group membership: Heritage, Prestige, and Crown. Please select a membership level and provide names and contact information for all those who should be included on the group roster.

Corporate Membership Level	Number of Rostered Members Covered*	Annual Dues ($US)	Annual Dues ($CN)
☐ Heritage	2	$ 321	$ 380
☐ Prestige	10	$1322	$1478
☐ Crown	40	$6376	$7131

***You may designate additional members for $107 US ($120 CN) each.**

Fee schedule effective through December 31, 2007

Step 2 Dues, Member Information, and Payment

Membership is for one year and will begin upon receipt of dues payment. Purchase orders are acceptable, but members will not receive benefits until receipt of payment. MasterCard, Visa and American Express are accepted – please provide credit card number, expiration date, and cardholder name. If billing address is outside North Dakota, please contact APWA for information regarding chapter dues.

APWA membership dues are not deductible as a charitable contribution but may be deductible as an ordinary business expense, subject to IRS limits. APWA does not designate the use of membership dues for lobbying or advocacy efforts, however seven percent (7%) of our total operating budget is allocated towards advocacy-related programs, including staff salaries. Please consult your tax professional with regards to eligible ordinary business expenses.

Send remittance to: American Public Works Association, PO Box 802296, Kansas City, MO 64180-2296
(Credit card payments may be faxed to: 816-472-1905 or 816-472-1610)

Include the full name, job title, company/agency, mailing address, phone, fax, and e-mail (if available) for each person membership is to cover.

Questions? Contact a membership specialist at 800-848-APWA or membership@apwa.net.

APWA Headquarters: 2345 Grand Blvd, Suite 700, Kansas City, MO 64108-2625

State of North Dakota Capacity Development Program Report on the Ongoing Implementation of the New and Existing Water System Capacity Strategies

Chad Miller, Environmental Scientist, Division of Municipal Facilities, North Dakota Department of Health

Introduction

This is North Dakota's annual Capacity Development Program Report for state fiscal year 2007 (FY07). The following verifies that ongoing implementation of both new and existing water system capacity strategies continues and program goals are being met.

The North Dakota Department of Health (NDDH) meets all FY07 reporting requirements as it pertains to the Safe Drinking Water Act (SDWA), Section 1420 (c) and the withholding of Drinking Water State Revolving Loan Fund (DWSRF) allotments.

The Capacity Development Program Report documenting ongoing implementation of new and existing capacity strategies in FY06 was completed and submitted to the U.S. Environmental Protection Agency (EPA) Region VIII on October 12, 2006. The FY06 report received EPA approval on November 9, 2006, resulting in no FY07 DWSRF funds being withheld.

Authorization

No statutory and/or regulatory changes requiring a new Attorney General's opinion were made to North Dakota's New and Existing Capacity Program Strategies in FY07.

New Systems Program

The NDDH requires all new community water systems (CWSs) and new non-transient non-community water systems (NTNCWSs) to demonstrate financial, managerial, and technical capability (capacity) prior to commencing operations. The *New Water System Capacity Assessment Manual* outlines the regulations and legal authority the NDDH has to administer a capacity assurance program.

The NDDH continues to require that plans and specifications be submitted to the Division of Municipal Facilities (DMF) for review and that a Letter of Approval be issued by the DMF before operations commence.

Plans and specifications and the Letter of Approval represent the primary control points in the new water system capacity assurance process. No modifications have been made to North Dakota's control points in FY07.

No new water system applications were received in FY07. BDW (Burke, Divide, Williams counties) water system is in the conceptual stage to serve those three counties in northwest North Dakota. Rural businesses and individuals will have the option to be served by this new system.

Existing Systems Program

The *North Dakota Existing Water System Capacity Strategy* details the steps taken to implement and maintain a capacity program aimed at assisting all North Dakota public water systems (PWSs) to acquire and maintain capacity. Factors encouraging and impairing capacity remain the same. Enhancements include federal funding, DMF administration, NDDH primacy, and stakeholder

involvement. Impairments continue to be small systems, declining rural populations, limited funding, lack of technical ability, operator turnaround, reluctance of system owners/managers and complexity of SDWA requirements.

North Dakota continues to use pertinent existing DMF programs to identify PWSs that lack capacity and are in danger of becoming a compliance problem. The point system developed for the existing system strategy utilizes SDWA compliance data, operator certification deficiencies, inspection reports and laboratory past due accounts to evaluate system capacity. PWSs accumulating ten points or more and having the greatest impact on public health are prioritized beginning with the highest number. PWSs with a history of significant noncompliance (SNC) automatically receive ten points, making them candidates for immediate assistance.

North Dakota's predominant compliance problems continue to be monitoring violations under the Total Coliform Rule (TCR) and TCR maximum contaminant level (MCL) exceedances. Thirty-six PWSs targeted had failure to monitor violations, 19 exceeded the TCR MCL and one received both violations. Thirty-three of 42 PWSs requiring certified water operators were noncompliant. Seventeen of the 33 PWSs requiring certified operators have achieved compliance. Other SDWA rule violations that affect capacity are addressed through the DMF's Drinking Water Program.

Thirty-six CWSs, nine NTNCWSs and 69 transient non-community water systems (TNCWSs) have received assistance with 105 (91 percent) returning to compliance. Four of the 36 CWSs, one of nine NTNCWSs and 23 of 69 TNCWSs had repeat violations and needed further assistance. There are currently eight PWSs out of compliance (six CWSs and two TNCWSs). Three remaining noncompliant systems are small CWSs that were targeted in FY07. These CWSs are scheduled to return to compliance in December 2007, January 2008 and March 2008, respectively, if no further violations occur.

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DWSRF 2 percent set-aside funds were again used to contract with the Midwest Assistance Program (MAP) for technical assistance. MAP continues to provide the NDDH completed self-evaluation questionnaires and capacity attribute evaluations. Nine CWSs and seven TNCWSs have received assistance in FY07. The current contract runs through January 31, 2008.

Currently, the NDDH is in the process of finalizing a new contract with MAP. This contract will be used for a capacity assessment follow-up project, risk assessment, standard operating procedure development and a financial/rate assessment development project, which will extend MAP services through 2008.

Future Follow Up

The NDDH will continue to measure capacity improvements by using the state Quarterly Violations & SNC Summary, the operator certification compliance report, PWS inspections report and new systems activity. The NDDH encourages a collaborative effort which promotes safe drinking water, public health and quality of life.

Stakeholder involvement continues to be a key element in program success. Professional organizations, technical assistance providers, DMF staff and other governmental agencies continue to provide expertise and timely assistance. To further promote stakeholder involvement, a copy of this report and the triennial report to Governor John Hoeven have been published in the *Official Bulletin*, official publication of the North Dakota Water and Pollution Control Conference. A news release notifying the public of the availability of the FY05 Governor's Report has also been provided. The Governor's Report along with the *New Water System Capacity Assessment Manual* and the *North Dakota Existing Water System Capacity Strategy* are available on the NDDH web site at: http://www.ndhealth.gov/MF/.

North Dakota's new and existing water system capacity strategies continue to meet program goals. All FY07 reporting requirements have been met. One new water system is in the provisional stage to serve three counties including rural residences and businesses. The NDDH has provided new water

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system capacity information to two additional systems. A contract for additional capacity assistance was executed in FY07 and follow-up assistance in FY08 is anticipated.

North Dakota's ongoing strategy has identified 115 of 519 PWSs requiring capacity assistance with 105 returning to compliance. Fifty-five systems received state TCR SNC violations (30 CWSs, two NTNCWSs and 23 TNCWSs) in FY07 with 14 returning to compliance prior to becoming a capacity problem. Ten of the 41 remaining noncompliant PWSs (four CWSs and six TNCWSs) had been targeted for capacity assistance in FY07. Two of the four CWSs have returned to compliance, and the two remaining should return to compliance in December 2007 and March 2008, respectively.

Stakeholder involvement continues to be a key element in program success.

Also, four of the six TNCWSs returned to compliance after receiving assistance.

Additionally, one of two noncompliant NTNCWSs in FY07 is now compliant with the remaining systems to be removed from the state SNC list in October 2007. Eleven of the 23 TNCWSs have returned to compliance. The majority of PWSs targeted through FY07 have been TNCWSs where drinking water is a minor part of their overall operations. Six of 12 PWSs with recent repeat violations are TNCWSs. The NDDH believes this will continue to be an ongoing problem that cannot be fully addressed.

The NDDH will continue to monitor existing PWSs, while providing consultation, training and financial recommendations prior to systems becoming an enforcement problem. Implementation of new SDWA regulations that effect existing system capacity will be evaluated. Any modifications resulting from these regulations will be detailed in future reports.

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North Dakota Section Scholarship for Midwest Regional Water Utility Management Institute

The Water Utility Management Institute is sponsored by the American Water Works Association (AWWA) and the College of Continuing Education, University of Minnesota. The course is based on a curriculum developed by AWWA with input from stakeholders.

This program is geared toward both individuals who are moving into a supervisory position for the first time and for more experienced managers who want to sharpen their skills to help in their present positions. Topics covered include leadership skills such as evaluating leadership styles, generational approaches, goal setting, delegation and decision-making. Organizational behavior skills covered include change management, team-building and conflict resolution. Customer service and timely human resource issues round out the institute.

This program focuses on management topics for professionals working in the public works arena. Current and future public works supervisors/mangers in utilities, maintenance and engineering will learn management skills and how to use time effectively to improve their organizations.

The next institute is March 10-12, 2008 in St. Paul, MN (on the St. Paul campus of the University of Minnesota).

The North Dakota Section of AWWA offers a $1,000 scholarship to a participant of the Institute. To be eligible for the scholarship you must be a member of NDAWWA, complete the application (see page 39) and return it to the Section Secretary/Treasurer by January 1, 2008.

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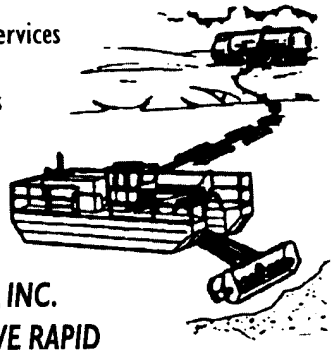

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North Dakota Section American Water Works Association
Water Utility Management Institute Scholarship Application

PERSONAL HISTORY

1. a. Name:_____
   b. Home address:_____
   c. Home phone:_____ d. Work phone:_____
   e. Current job title:_____
   f. Email address:_____
   g. Fax number:_____

SYSTEM INFORMATION

2. a. Name of your system:_____
   b. System address:_____
   c. Number of people you supervise:_____

3. a. Is your community a North Dakota Section utility member?_____
   b. Member number:_____

PERSONAL ACTIVITIES

4. a. Are you a member of AWWA?_____
   b. If yes, for how long?_____
   c. Member number:_____
   d. List committee positions/other active involvements in AWWA: _____
   _____
   _____

5. a. Other professional organization memberships you hold: _____
   _____
   _____
   b. List committee positions/active involvements in these other organizations: _____
   _____
   _____

6. Leadership positions you hold or have held in your community: _____
   _____
   _____

7. I declare that all information supplied on this application is true and accurate.

_____ _____
Signature of Applicant Date

Complete application by January 1 and send to:

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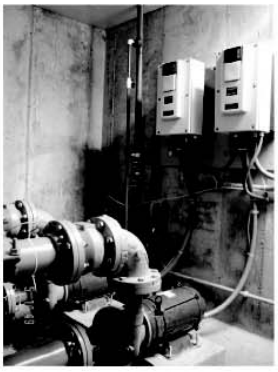

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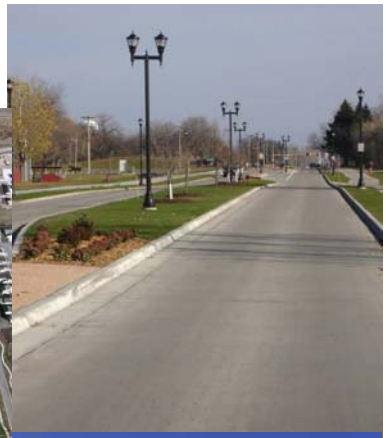

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