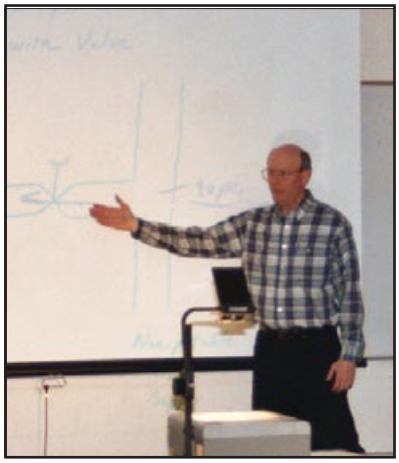
OFFICIAL BULLETIN

North Dakota Water and Pollution Control Conference

CONFERENCE ISSUE

VOLUME 92 | JULY 2006-SEPTEMBER 2006 | NUMBERS 1-3

Ralph Riedinger Retires



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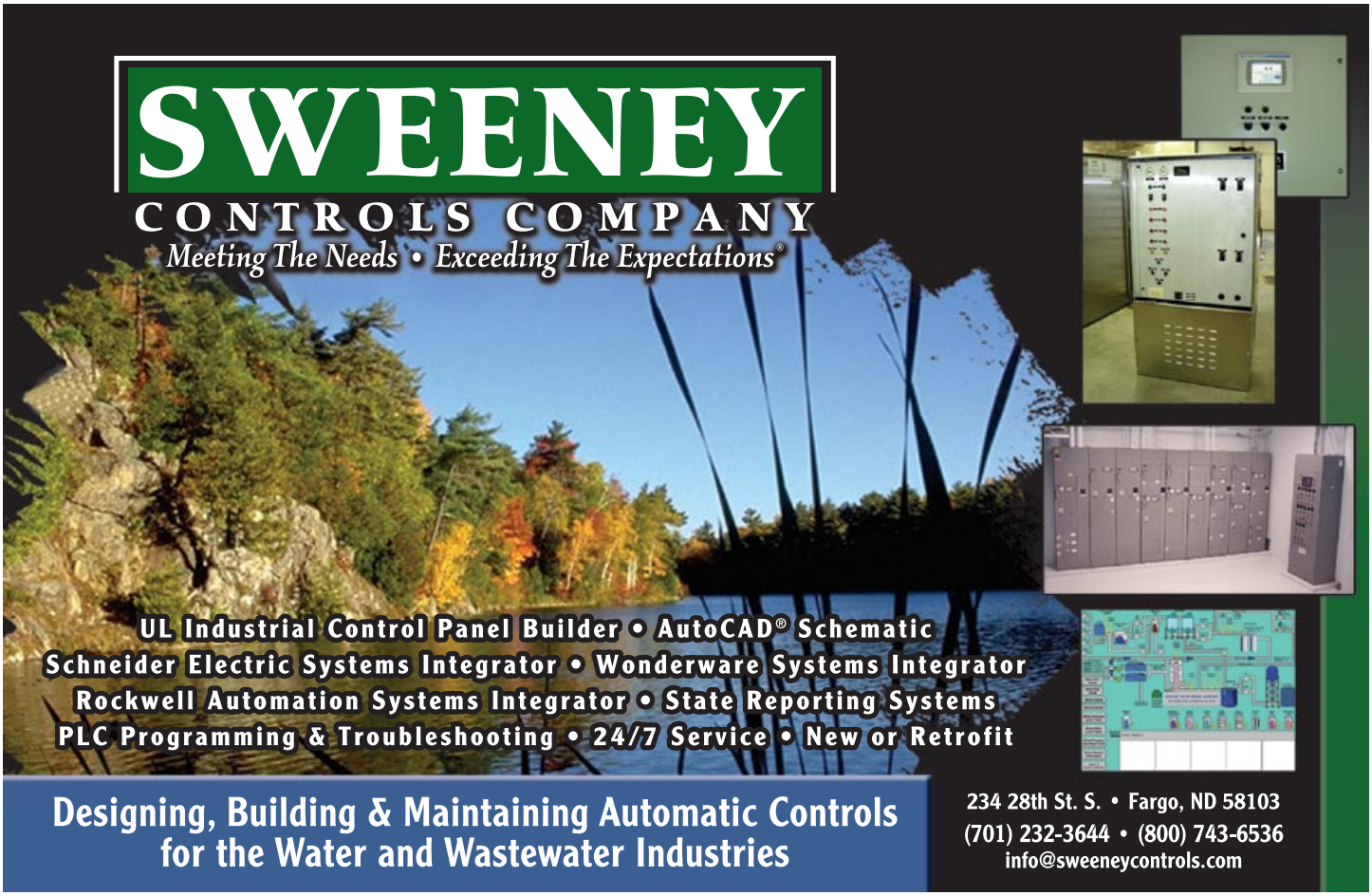

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Members of the Conference are indebted to those members and others who have contributed articles and other materials for this publication.

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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
North Dakota Water and Pollution Control Conference

President's Letter

TOM WELLE
Moorhead, MN
PRESIDENT

Dear Conference Members and Friends:

Please mark your calendar and plan to attend the 78th Annual Joint Meeting of the North Dakota Water and Pollution Control Conference, the North Dakota Water Environment Association, the North Dakota Chapter of the American Public Works Association and the North Dakota Section of the American Water Works Association. This year's Conference will be held October 25-27, 2006, at the Grand International Inn of Minot.

The Conference is a great opportunity to converse with friends, share thoughts and ideas with colleagues and recognize peers for their outstanding service and dedication to the water industry. This year's Conference promises to have many informative and interesting presentations from which to choose. In addition, take time to enjoy one of the many social activities held throughout the Conference.

See you in Minot!

Sincerely,
Tom Welle, President
North Dakota Water and Pollution Control Conference

* * * *

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Ralph Riedinger Retires

by Wayne Kern, Director, Division of Municipal Facilities, North Dakota Department of Health

Ralph Riedinger retired on December 30, 2005, after 26 years of distinguished service with the North Dakota Department of Health. Ralph's principal work focus was management of the department's Operator Certification, Training and Facility Inspections Program.

Ralph made many noteworthy contributions during his 26 years with the department. Among other things, Ralph:

- conducted and directed inspections of water, wastewater and swimming pool facilities.
- directed and participated in classroom training of water and wastewater operators.
- investigated or directed the investigation and resolution of numerous water and wastewater problems throughout the state.
- coordinated statutory and administrative rule changes necessary to better serve operators in the state and maintain compliance with ever-changing federal requirements.
- served on the education committee for the North Central Section of the American Water Works Association.
- was instrumental in the formation of the North Dakota Section of the American Water Works Association (NDAWWA) in 1991.
- served as chair of the membership committee and as Secretary-Treasurer for the NDAWWA.
- served as Secretary-Treasurer for the North Dakota Water and Pollution Control Conference and coordinated the annual meeting of the conference for more than 26 years.
- served as editor of the *Official Bulletin,* the official publication of the Conference, for more than 23 years.

In 1994, Ralph received the coveted George Warren Fuller Award from the AWWA in recognition of his distinguished service to the water supply field. In 1998, Ralph was recognized for his specialized assistance and efforts during the 1997 flood in Grand Forks. Ralph received special recognition in 1999 for 20 years of dedicated service to the Conference.

Ralph was recognized and respected by department staff, water/wastewater operators and consultants statewide for his honesty, integrity and fairness and for his expertise in the water and wastewater fields. There were very few, if any, water and wastewater operators in the state who did not know Ralph by first name, or whom Ralph did not know by first name.

Prior to joining the department, Ralph taught junior high and high school science, conducted laboratory testing and field work on irrigation systems with the Federal Agricultural Research Service and worked as a water treatment plant operator for the city of Mandan. Ralph was a certified grade III water treatment plant operator. Ralph obtained a B.A. degree in education, with a major in biology and a minor in chemistry, and an education certificate.

Ralph will be missed by department staff and all water and wastewater operators throughout North Dakota. Department staff are extremely grateful for Ralph's many years of skilled and dedicated service.

Among his many other talents, Ralph is an expert marksman. This has led to the demise of many a coyote and prairie dog over the years. The population of both will no doubt further decline with his retirement. The department wishes Ralph the best in

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Ralph Riedinger Instrumental in Advancing Operator Training in North Dakota

by Jack Long, Senior Program Manager, Advanced Engineering and Environmental Services, Inc.

The day-to-day operational tools used by water and wastewater operators have remained somewhat unchanged over the years. Chlorination, lime softening, iron and manganese removal, etc. are still effective processes for treatment, but the way these processes are used has changed. Today's operator is challenged with balancing costs, regulatory issues and consumer expectations in his or her daily operations.

When Ralph Riedinger accepted the challenge of overseeing water and wastewater operator training for the North Dakota Department of Health, the wave of new regulatory requirements was just beginning to affect water and wastewater operations. His assignment was to provide operators the training necessary to meet the regulatory challenges, while taking into consideration costs and consumer expectations.

The Clean Water Act and the Safe Drinking Water Act were two major regulatory acts that impacted water and wastewater operations. Prior to these acts, communities treated wastewater as best they could and then discharged it to the environment. It was not uncommon at the time Ralph started with the department for communities to discharge only minimally treated wastewater into receiving waters and, in some cases, into streams with low- or even no-flow conditions. Isolation of wastewater in cells and transfer as treatment took place was not often practiced. Transfer valves were just left open and cells equalized, never achieving full treatment. On the drinking water side, there were no mandatory monitoring requirements. Communities were encouraged to routinely sample their drinking water for microbiological monitoring, but there was nothing in place that mandated it or suggested a frequency or location for monitoring. There was no chemical monitoring other than for general chemistry parameters such as total dissolved solids, hardness, iron, manganese, sodium and such. Finally, there was no federal mandate for the certification of operators -- a far cry from where we are today.

Operator training prior to Ralph's involvement was quite different. The sessions had more of a convention atmosphere than academic structure. The training sessions included one evening with a buffet supper and another evening with a full banquet -- not so much different than the social format currently offered at the fall conference. These training sessions provided an excellent opportunity for operators to "rub elbows" with each other and learn from one another. But the classes were directed more toward assistance in preparing for certification examinations than developing operation and management skills. It was believed this was necessary because the state required mandatory certification for larger communities with populations of more than 500. These training classes were provided each spring during quarter break on the campus of NDSU in Fargo. With most of the larger communities in eastern North Dakota, this location made sense.

With the regulatory acts impacting operators statewide, Ralph made three decisions that produced major changes in the training program. First, he decided to add an additional training event to the schedule to accommodate the increased demand for training. Next, he decided to move this second training event to the western part of the state to make training more accessible. Finally, he decided to change the training from a social atmosphere to one of an academic setting.

While the NDSU campus still remained a training site, training expanded to western North Dakota in 1980 when a repeat of the NDSU session was held at the Ramada Inn in Dickinson. Attendance increased from the usual number of about 100 to 172 operators in 1980. Not only did this change provide geographical convenience, it also provided communities the flexibility to send some of their staff to one session and some to the second session. The training continued in this manner through 1985, with the eastern session held in Fargo at NDSU and the western session held at either the Ramada Inn in Dickinson or the Holiday Inn in Bismarck.

As regulatory demands grew, consumer expectations and costs increased while funding became scarce and the demand for training increased. Ralph evaluated the training needs in 1986 and, as a result, operators were provided the option of attending three events, each with the same class sessions. These events

were held at the International (Ramada) Inn in Minot, the Holiday Inn of Bismarck and on the campus of NDSU. By now, annual attendance had grown to approximately 250.

Training continued in this manner until the early 1990s when the federal government required certification of operators involved in the treatment of surface water for drinking. The Department of Health was required to prepare legislation that would address this requirement. During the bill hearing process, an amendment was introduced by outside interests to include certification for operators of all public community systems. The bill successfully made its way through the legislative process, resulting in the creation of a new level of certification, IA, for small systems or those serving between 25 and 500 people. At about the same time, the federal government offered a grant program that made funding available for the construction of a training facility in each state. North Dakota decided to pursue this option, and plans were made to construct the training facility in Bismarck. It was a perfect match -- more operator training and a new facility that provided a classroom atmosphere and options for multiple training sessions.

Since 1992, operator training has been provided at the Environmental Training Center in Bismarck. While training activities have come full circle and returned to just one site, the site is more geographically centered, and the Bismarck facility allows for multiple sessions to be held. Training is now usually comprised of five to seven sessions, and the sessions are specialized for water or wastewater treatment, collection and distribution for small or large systems. Attendance averages between 275 and 300 each year.

In a large part, Ralph was responsible for the growth of training opportunities for today's operators, for moving the training from a convention atmosphere to an academic atmosphere and for directing and overseeing the development of a training facility. As a result, we all enjoy a safer drink of water, an environment that is cleaner and healthier and water and wastewater facilities that are more efficiently and effectively operated. Ralph can be proud of what he has accomplished, and he deserves our gratitude for his foresight in taking training to the next level.

Highlights of Ralph Riedinger's Career

1979 - Ralph begins career with the North Dakota Department of Health

1980 - Ralph adds a second operator training site in Dickinson, North Dakota

1986 - Ralph provides three operator training events in Fargo, Minot and Bismarck.

1990-1991 - Ralph is instrumental in creation of North Dakota Section of AWWA.

1991 - Ralph participates in ground breaking ceremony for Environmental Training Center.

1991 - Ralph participates in proclamation of state's first Drinking Water Week.

1994 - Ralph receives George Warren Fuller award.

1999 - Ralph receives 20-year service award in appreciation for organizing NDWPCC annual conference.

2000 - Ralph receives AWWA Membership Retention Award.

2003 - Under Ralph's guidance, the NDWPCC celebrates its 75th anniversary.

2003 - Ralph is recognized for 25 years of service to the NDWPCC.

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2007 ANNUAL CONFERENCE: FARGO

Ralph Riedinger, Honorary APWA Member

Dear Ralph,

On behalf of all present and former members of the North Dakota Chapter of American Public Works Association, we convey our deep appreciation for your strong support to our organization over the years.

We also express our appreciation for your participation as Conference Chairman of the North Dakota Water and Pollution Control Conference. Ralph, your organizational skills and attention to detail have inspired us to strive for the excellence that you demonstrated annually with organizing and conducting the Conference. You showed us how a premier Conference of diversified members is conducted with formal professionalism and yet informal individual attention.

Your skill in orchestrating the Conference inspires ND Chapter APWA, as members of the Conference, to live up to a higher standard. We are a better organization because of you.

On both a professional level and a personal level, we express our gratitude to you. Because of your example, future Conferences will continue and Organizations and Members alike will strive to attain the high level of performance you provided us year after year.

Because you showed us the way, we offer our assurance to strive to live up to the high standards you have set. We thank you for your commitment to excellence and enthusiastic participation in our Conference and the ND Chapter American Public Works Association.

Therefore, the ND Chapter of American Public Works Association does hereby bestow Honorary Membership to Ralph Riedinger.

Thank you!

ND Chapter APWA 2006 Executive Committee and Membership

Greg Ficek, President

Chuck Abel, Executive Secretary

Minot Welcomes Visitors with New Signs

Visitors to the City of Minot are now welcomed by eye-catching signs at each of the Magic City's five major entrance highways. Those traveling into Minot on Highway 83 north and south, Highway 52 south and Highway 2 east and west are welcomed with different greetings. The signs were built to help promote Minot to visitors.

The welcome signs, although only recently constructed, have been in the works for nine years. They started as an idea from the *Visioning for our Future* town hall meetings sponsored by the Minot Area Chamber of Commerce in 1997. The Vision City Entrance Alliance then took over the project. "Having the vision become a reality is very satisfying," said Visioning Chair Ed Steckler. "Many volunteers worked hard for the Minot welcome signs, and the hard work has really paid off as they look sharp, enhancing the beauty of our city."

The signs were constructed using grant money from the Transportation Enhancement Program administered by the North Dakota Department of Transportation. Landscape architecture students from North Dakota State University (NDSU) helped design each of the five signs that are uniquely landscaped. The total cost for the project was approximately $640,000.

Stone Crafters, Inc., was the general contractor for the project. They coordinated the project and installed the granite, the lettering and symbols for the signs. Jost Construction installed the stone veneer on the sign bases. The electrical work was performed by Main Electric Construction, Inc. The sign foundations were constructed by Mackley Construction, and the landscaping was performed by Nelson and Sons Landscaping.

Construction of the signs began in the fall of 2005. The concrete foundations were completed by November 2005. Work was then suspended for the winter and started back up in the spring of 2006. Other than a few clean-up and finishing items, the signs were completed by Memorial Day weekend.

Now that construction is complete, the focus will be on maintaining the signs and caring for the plantings as they mature and enhance the signs. The City of Minot will work together with the Minot Park District for the maintenance of the new signs. Minot city forester Brian Johnson said "These signs are very impressive and really should give people a very positive first impression when entering Minot."

Since the signs have been completed, feedback from the public has been very positive. The community can be proud of these entrance features that are the result of the hard work and cooperation of community members, city employees, NDSU, contractors and the North Dakota Department of Transportation.

Rebecca West
2006-2007 Vice President
Water Environment Federation

Rebecca West is the 2006-2007 Vice President of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

She is currently director of technical services for Spartanburg Water System and Sewer District in Spartanburg, S.C. In this role, Rebecca is responsible for a division of 14 reclaimed water facilities and three drinking water facilities, as well as their associated collection and distribution systems, biosolids and residuals management and three drinking water reservoirs. Prior to this, she was operations manager for Western Carolina Regional Sewer Authority in Greenville, S.C.

A WEF member since 1990, she has served on the Biosolids and Residuals Management Committee, International Coordinating Committee, Government Affairs Committee and as chair of the Public Education Committee.

In addition, Rebecca has been an active member of the Water Environment Association of South Carolina (WEASC). She has served as chairperson of WEASC, as well as the South Carolina Water for People Committee and WEASC Education, Biosolids, Laboratory and Public Education Committees. In addition, Rebecca helped develop a biosolids training school in South Carolina and established a state certification program for biosolids and water residual management operators.

She is a member of the American Water Works Association, board member of the South Carolina Environmental Certification Board and member of Business and Professional Women/USA.

A recipient of WEF's prestigious Arthur Sidney Bedell Award and WEASC's Select Society of Sanitary Sludge Shovelers, Rebecca is a certified biological wastewater operator and biosolids and residuals operator in the state of South Carolina. She received a B.S. degree in biology from Wofford College in Spartanburg.

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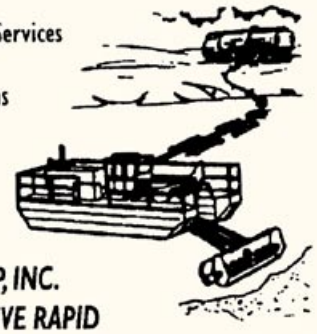

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Stage 2 Disinfectants and Disinfection Byproducts Rule

by Jeni Walsh, Environmental Scientist, Division of Municipal Facilities, North Dakota Department of Health

Note: This is the second article of a two-part series concerning the Stage 2 Disinfectants and Disinfection Byproducts Rule. This article will explain and describe the sampling procedure for taking Total Trihalomethane and Haloacetic Acid samples.

In the June 2006 issue of the *Official Bulletin*, the Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) was summarized and explained. This rule builds on the initial Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBPR) by focusing on monitoring for and reducing concentrations of two classes of DBPs -- Total Trihalomethanes (TTHMs) and Haloacetic Acids (HAA5s) -- in drinking water. This rule affects all community water systems (CWSs) and non-transient, non-community water systems (NTNCWSs) that use either a primary or residual disinfectant other than ultraviolet light, or that deliver water that has been treated with a primary or residual disinfectant other than ultraviolet light.

This article will explain how to take a TTHM and a HAA5 sample and how to determine the maximum residence sampling site.

When sampling for the Initial Distribution System Evaluation (IDSE) or the 40/30 certification, all systems must monitor during the month of highest DBP concentrations. In North Dakota, this has been determined to be the month of July or August. A sampling kit will be sent to the city from the North Dakota Department of Health. Each kit contains an instruction sheet, two empty sample vials, one trip blank vial, two hydrochloric acid vials, one 125-milliliter (ml) HAA5 bottle and a cooling pack. The procedure for filling the sample vials follows:

1. Remove the cooling packs and place in freezer at least 24 hours before collecting the samples.

2. The trip blank vials (those that already have water in them) are for lab use only. Do **not** open these vials. They must be returned along with the samples that are collected.

3. Do not rinse sample vials! Ascorbic acid has been added as a preservative and should not be rinsed out.

4. Remove any attachments from the tap.

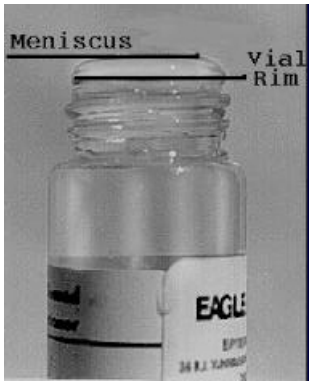
5. Flush the tap for several minutes or until the water temperature has stabilized. The cap of the sample vial contains two parts - the ring and the septum. The top of the septum is marked with a black dot. If the septum separates from the ring, make sure to replace the septum so that the black dot is up when the cap is in place.

6. Adjust the flow rate to approximately 1/8-inch diameter stream.

7. Remove the cap and hold the vial at an angle, letting the water flow along the inside wall of the vial. Introduce the water very gently to reduce agitation and to avoid letting in air bubbles.

8. Fill vial to within an inch from the top. Add the contents of one hydrochloric acid (HCl) vial or 4 drops of the HCl from the acid dropper bottle into the sample vial. Place cap on vial and invert (DO NOT SHAKE) it three times to mix the acid.

9. Finish completely filling the vial to form a meniscus (the curved upper surface of a liquid formed by surface tension). A properly formed meniscus will extend above the sides of the vial by as much as 1/8 inch.



10. Place the cap on the vial and secure firmly (do not over-tighten as cap may split), making sure no air is introduced or present in the vial. **NOTE: Vial must be 100 percent free of air space.**

11. Invert the vial and tap it against your hand, then

*(**Stage 2 DBPR Rule** ... cont. on page 12)*

*(**Stage 2 DBPR Rule** ... cont. from page 11)*

check for air bubbles. If any are present, remove the cap and add additional water to re-form the meniscus, replace the cap and check for air bubbles again.

12. Repeat above procedure for each vial.

13. Pack vials and cooling packs (if enclosed) and mail to the North Dakota Department of Health - Division of Laboratory Services - Chemistry.

Samples should be taken at the point where the water has been in the distribution system the longest. This site is called the point of Maximum Residence Time. System operators should consider sites furthest from the water treatment plant or well and/or sites where the water has to travel the longest to the sample tap. Low chlorine residuals may be an indicator of maximum residence time.

The operator should write down the sample site (physical address) on the sample information sheet. That information will be transferred to the Drinking Water Programs (DWP) database for future reference and that address will be printed on all future TTHM labels.

HAA5 samples are to be taken with the 125-ml amber glass container. Please fill the container to the neck from the same sample tap as the TTHM samples. The HAA5 sample does not require acid.

Samples should be mailed to the Division of Laboratory Services - Chemistry, 2635 East Main Avenue, Bismarck, ND 58501-5044.

Once results have been received by the Department of Health, waivers may be granted and sampling requirements reduced where applicable.

Questions concerning the Stage 2 DBPR or the TTHM and HAA5 sampling can be directed to Brian Blotsky at 701.328.5221 or bblotsky@nd.gov.

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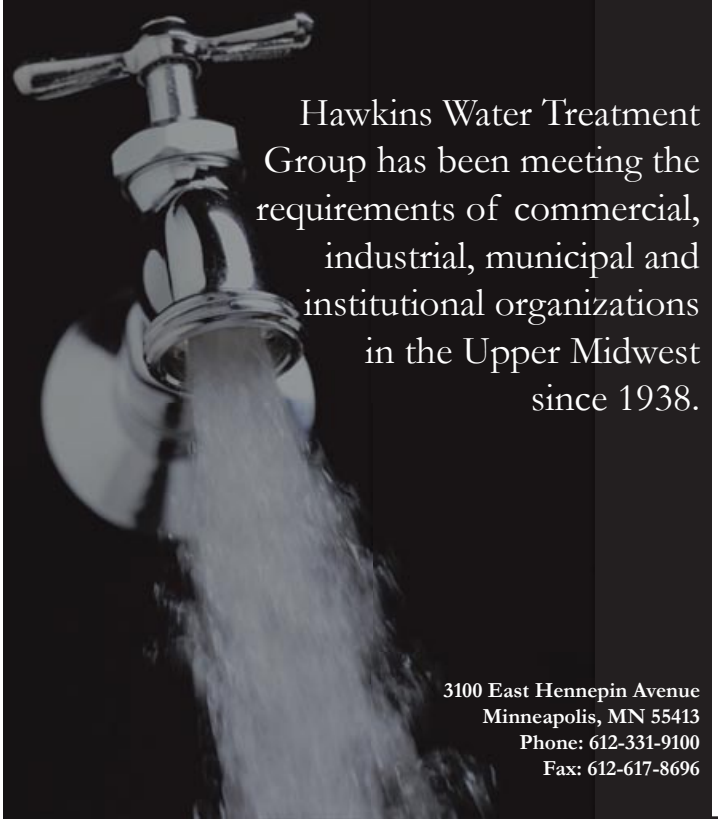

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Terry Rolan
President (2006 – 2007)
American Water Works Association

Terry Rolan represented the North Carolina Section on the American Water Works Association (AWWA) Board of Directors from 2000 to 2003. Particularly interested in encouraging membership and involvement of utilities, young professionals and those from diverse backgrounds, he chaired the Young Professionals Committee in 2002-2003.

He served on the Administrative & Policy, Technical & Educational and the Water Utility Councils and has been a member of AWWA committees on membership, strategic planning, regulations, source water protection, surface water, dependable yield, sludge disposal and residuals management, as well as a member of the AWWA Research Foundation Board of Trustees. As AWWA President-Elect, he also serves on the following:

- Abel Wolman Award of Excellence Committee
- Finance Committee
- Honorary Member Award Committee
- Archie E. Becher, Jr. Award Committee
- Strategic Planning Committee
- Award of Merit Committee
- Water for People Board of Directors
- Board of Directors (as chair)
- Water Industry Coordinating Committee
- Executive Committee
- AWWA Councils as Assigned

In more than 30 years as an AWWA member, Terry has compiled a record of volunteerism at the Section and Association levels that has been recognized with the Fuller Award in 1991, Honorary Membership in 2000 and Life Member in 2002. As an active member in the Water Environment Federation (WEF), he also received the Arthur Sidney Bedell Award in 1993.

In addition to his contributions to technical matters, his section service ranges from work on numerous committees including long-range planning, finance and government affairs to secretary-treasurer, board member and section chair. Terry is active with the AWWA Research Foundation (past board trustee), WEF (past board member) and numerous other water industry associations in North Carolina.

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EPA Publishes Water Security Handbook

The U.S. Environmental Protection Agency (EPA) recently published a handbook entitled *A Water Security Handbook: Planning for and Responding to Drinking Water Contamination Threats and Incidents*. The handbook was developed to assist water utility officials and operators in protecting their water systems and responding effectively to threats and contamination incidents.

EPA developed the handbook in response to requests for a short, simplified document summarizing the comprehensive document entitled *Response Protocol Toolbox: Planning for and Responding to Drinking Water Contamination Threats and Incidents* (also known as the *Response Protocol Toolbox*). The handbook serves as a guide to the *Response Protocol Toolbox* (handbook chapters correspond to modules in the *Toolbox*).

The handbook is also intended to be a companion to EPA's document entitled *Response Protocol Toolbox: Planning for and Responding to Drinking Water Contamination Threats and Incidents; Response Guidelines* (also known as *Response Guidelines*). The *Response Guidelines* provide forms and checklists to organize and carry out emergency planning and response efforts. Together, the handbook and *Response Guidelines* provide succinct recommendations on water security planning and response actions.

The handbook is intended to help water utility officials and operators:

! understand the basics of responding to contamination threats and incidents;
! plan for and respond to contamination threats and incidents;
! learn key concepts of water security covered in the *Response Protocol Toolbox*; and,
! learn how to use the *Response Protocol Toolbox*, the *Response Guidelines* and other available tools regarding water security.

The handbook, as well as other information concerning water security, may be obtained by contacting the Safe Drinking Water Hotline at 1.800.426.4791 or visiting EPA's Water Security website at www.epa.gov/watersecurity.

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ND Section AWWA – Growing to Meet Member Needs

by Hazel Sletten, Water Utility Superintendent, Grand Forks, N.D.

The North Dakota Section of the American Water Works Association (AWWA) has been standing tall for the past 16 years. Membership has grown, as well as section participation in the annual conference planning. Section trustees have gone the next step and asked the members what topics they would like included in conference planning and operator training programs. In March of 2006, the trustees established goals for the next five years. It was decided that a main goal of the section should be to promote the value of professional utility staff. The section is working to find ways to show the public that a professional utility worker is key to:

- Improved water quality across the state.
- An enhanced quality of life resulting from the availability of good quality water.
- Operation and maintenance of the services the public expects.

To work toward this goal, the AWWA trustees have established a public affairs committee. The committee's first task will be to (1) promote a professional image of the men and women working in the water industry and (2) provide quality training opportunities at the fall conference.

Attendees at the 2006 North Dakota Pollution Control Conference will notice that once again the North Dakota AWWA is sponsoring an inspirational speaker due to the positive response to Terry Fleck's presentation at the 2005 conference. Other topics considered include a review of basic water treatment chemistry and a panel discussion involving representatives from water distribution systems throughout the state.

Another initiative undertaken by the public relations committee is the restoration of the North Dakota AWWA Section website. The committee is investigating ways to make the website a tool for operators looking for training opportunities, information and a place to communicate with others in the industry, as well as a place to showcase operator activities across the state. To view a draft of the site, visit: http://www.ae2s.com/ndawwa/.

If you are a water professional, AWWA member or not, the public affairs committee of the North Dakota Section of the AWWA stands ready to listen to your input and accept your participation if you care to volunteer. If you are interested, be sure to talk to a committee member or anyone on the board of trustees about how you can be a part of North Dakota AWWA's future.

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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 ☐ $126 US ☐ $186 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 ($32 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	$ 208	$ 308
☐ 10,001 – 25,000	4	$ 416	$ 616
☐ 25,001 – 50,000	6	$ 624	$ 924
☐ 50,001 – 100,000	10	$1040	$1540
☐ 100,001 – 300,000	16	$1664	$2464
☐ 300,001 – 500,000	20	$2080	$3080
☐ 500,001 – 1,000,000	26	$2704	$4004
☐ More than 1,000,000	30	$3120	$4620
☐ Federal Agency	50	$5200	$7700

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 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	$ 312	$ 462
☐ Prestige	10	$1293	$1985
☐ Crown	40	$6190	$9142

***You may designate additional members for $104 US ($154 CN) each.**

Fee schedule effective through January 1, 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 and Visa 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: 816-595-5374 or 816-472-1905)

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.

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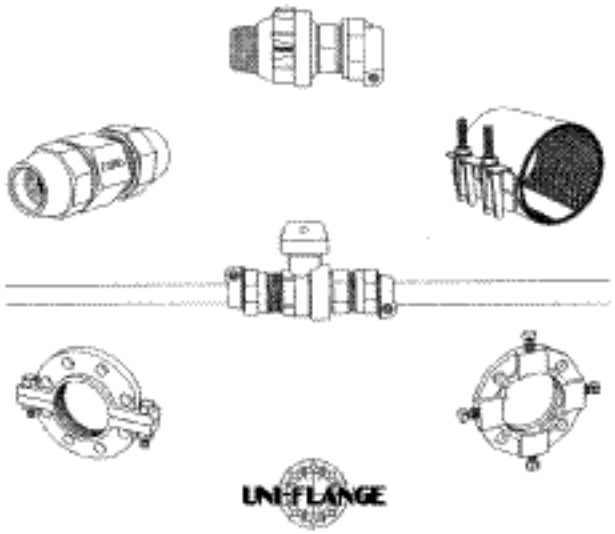

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REGISTRATION FORM

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 25, 26, and 27, 2006, Grand International Inn, Minot, North Dakota 800-735-4493 or 701-852-3161

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 ($105.00) _____

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 ($9.00) _____
Wed. Evening Buffet ($17.00) _____
Thur. Buffet Breakfast (Sponsored by Tabletop Exhibitors) FREE
Thur. Luncheon WEA ($9.00) _____
Thur. Evening Banquet ($22.00) _____
Fri. Luncheon NDWPCC & AWWA ($9.00) _____

C. REGISTRATION FOR SPOUSE

Name _____

Wed. Evening Buffet ($17.00) _____

☐ Please check if your spouse is planning to attend the spouses' program on Thursday. Buffet breakfast, special noon luncheon, and tour of the Taube Museum of Art are provided at no charge. Transportation will be also provided.

Thur. Evening Banquet ($22.00) _____

List any other luncheons your 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.
☐	☐	Do you plan to participate in the golf tournament starting at 1:00 p.m. on Wednesday at the Minot Country Club? Your average score or handicap _____. The golf course will be charging a green and golf cart fee.
☐	☐	Do you plan to participate in the field trips to Minot's Municipal Facilities on Thursday morning? Transportation will be provided. City officials will be available for directions, if you wish to use your personal vehicle.
☐	☐	Do you plan to participate in the Casino Excursion to Four Bears on Wednesday? Bus transportation provided.

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

Name _____

Address _____

City, State & Zip Code _____

_____

Your Name/Position/Job Title
To Be Used on Name Badge

_____

_____

Employer _____

Work Phone No. _____

F. **MEMBERSHIPS**

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

WATER ENVIRONMENT FEDERATION

Active - ($87.00) _____
NDWEA Operators' Division - ($49.00) _____
NDWEA Student - ($10.00) _____
Corporate - ($260.00) _____
Retired - ($35.00) _____

ND CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION

Individual - ($126.00) _____

AMERICAN WATER WORKS ASSOCIATION

Active - ($130.00) _____
Operations - ($62.00) _____
Student - ($25.00) _____

TOTAL MEMBERSHIP FEES ☐

G. FOR CONFERENCE USE ONLY

PAID BY: Check_____ Cash_____ Charge_____
_____ Check No. _____ Rec. No. _____

PROGRAM

JOINT MEETING OF THE

NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE
78TH ANNUAL CONFERENCE

AND THE

NORTH DAKOTA CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION
51ST ANNUAL CONFERENCE

AND THE

NORTH DAKOTA WATER ENVIRONMENT ASSOCIATION
47TH ANNUAL CONFERENCE

AND THE

NORTH DAKOTA SECTION OF THE AMERICAN WATER WORKS ASSOCIATION
16TH ANNUAL CONFERENCE

2006

OCTOBER 25, 26, and 27
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NORTH DAKOTA SECTION OF AWWA PRECONFERENCE MEETING
Tuesday, October 24, 2006
7:30 p.m.
Candlelite I Room

8:30 a.m. to 8:30 p.m. **CONFERENCE REGISTRATION**
Southwest Corner Hotel Lobby

FIFTEENTH ANNUAL WATER TASTE TEST CONTEST
Submit Water Samples at the Registration Desk on Wednesday

7:30 a.m. **OFFICERS' MEETING**
North Dakota Section of the American Water Works Association (NDAWWA)
Minot Room

8:00 a.m. **OFFICERS' MEETING**
North Dakota Chapter of the American Public Works Association (NDCAPWA)
International Room

8:00 a.m. **OFFICERS' MEETING**
North Dakota Water Environment Association (NDWEA)
Maple Leaf Room

9:30 a.m. **BUSINESS MEETING**
Joint Board of Directors of the North Dakota Water and Pollution Control Conference, the NDCAPWA, the NDWEA, and the NDAWWA
Candlelite I and II Rooms

10:15 a.m. **AUDITING COMMITTEE MEETING**
ND Water and Pollution Control Conference
Candlelite I and II Rooms

10:15 a.m. **AWWA COMMITTEE MEETINGS**
ND Section of the American Water Works Association
Minot Room

ANNUAL CONFERENCE AND JOINT MEETING FOR 2007
Host City: Fargo
Motel/Hotel: Holiday Inn
Dates: October 24, 25, and 26
(Wednesday, Thursday, Friday)

WEDNESDAY, OCTOBER 25, 2006

WEDNESDAY LUNCHEON
Dakota Room

11:30 a.m. **LUNCHEON AND BUSINESS MEETING**
North Dakota Chapter of the American Public Works Association
President Greg Ficek - Presiding

Welcome: City of Minot
Gary Bracht, President of the North Dakota Water Environment Association

Guest Luncheon Speaker: Bill Verkest, President, American Public Works Association, and Municipal Program Manager, HDR Engineering, Inc., Fort Worth, TX

WEDNESDAY EVENING BUFFET SUPPER
5:00 p.m. - 7:00 p.m.
Poolside (served in Candlelite I and II Rooms)

EXCURSION TO FOUR BEARS CASINO
Bus departs at 6:30 p.m.
Meet in Motel Lobby of the Grand International Inn
Bus departs from Casino at 11:30 p.m. to return to Minot

ANNUAL CONFERENCE AND JOINT MEETING FOR 2008
Host City: Bismarck
Motel/Hotel: Ramkota Inn
Dates: October 28, 29, and 30
(Wednesday, Thursday, Friday)

LOCAL ARRANGEMENTS COMMITTEE:
Dave Burckhard, Dolly Mickelson, Waide Kritsky, Rustin Roteliuk, Alan Walter, Rick Hair, Jason Sorenson

1:00 p.m. **GOLF TOURNAMENT**
Minot Country Club
Arrangements:
Jason Sorenson, Rick Hair

TABLETOP DISPLAY PROGRAM

Executive, Viking, and Norse Rooms

CHECK IN AT REGISTRATION DESK:
8:30 a.m. - 8:30 p.m.
Wednesday, October 25

SETUP TIME: 6:30 p.m. - 8:30 p.m.
Wednesday, October 25

Listing of Tabletop Displays in Attachment

SPOUSES' PROGRAM
Thursday, October 26, 2006

Free Buffet Breakfast - Location to be announced
8:00 a.m. - 10:00 a.m.

Luncheon, Tour, and Craft Project
- Taube Museum of Art - 11:30 a.m.
Transportation will be provided

WEDNESDAY, OCTOBER 25, 2006

AFTERNOON CONCURRENT SESSIONS

SESSION A: Executive Room
Moderator: Jack Long, Director, NDAWWA

1:15 p.m. TITLE: "City of Minot Planned Sewer and Water Infrastructure Improvement Project"
SPEAKER: Waide Kritsky, City Engineer, City of Minot

1:45 p.m. TITLE: "Minot's South Hill Water Distribution System Study and Improvements"
SPEAKER: Tom Welle, Vice President, Water/Wastewater Services, Ulteig Engineers

2:15 p.m. TITLE: "Gravity Filter Maintenance and Optimization"
SPEAKER: Timothy Paustian, Program Manager, Ulteig Engineers

2:45 p.m. BREAK: Dakota Room

3:00 p.m. TITLE: "Stage 2 Disinfectants / Disinfection Byproducts Rule"
SPEAKER: Robert Clement, Environmental Engineer, U.S. EPA, Region VIII

SESSION B: Viking Room
Moderator: Mark Blonigen, President-Elect, NDWPCC

1:15 p.m. TITLE: "Industrial Pretreatment Overview"
SPEAKERS: Gary Bracht, Environmental Engineer, NDPDES Program Manager, North Dakota Department of Health
Jeff Roerick, Environmental Scientist, North Dakota Department of Health

2:15 p.m. TITLE: "Emerging Contaminants in U.S. Waters"
SPEAKER: Robert Lundgren, Hydrologist / Water Quality Specialist, U.S. Geological Survey

2:45 p.m. BREAK: Dakota Room

3:00 p.m. TITLE: "Municipal Separate Storm Sewer System Rule"
SPEAKERS: Dallas Grossman, Environmental Engineer, North Dakota Department of Health
Randy Kowalski, Environmental Scientist, North Dakota Department of Health
Kirk Williams, Research Engineer, Energy and Environmental Research Center, UND

4:00 p.m. TITLE: "How to Develop a Fats, Oil, and Grease Public Education Campaign"
SPEAKER: Bill Gefroh, Industrial Pretreatment Coordinator / Laboratory Manager, Wastewater Treatment Plant, City of Bismarck

SESSION C: Norse Room
Moderator: Chuck Abel, Vice President / Executive Secretary, NDCAPWA

1:15 p.m. TITLE: "Erosion & Sediment Control Best Management Practices I"
SPEAKER: Frank Peloubet, Program Manager, ND LTAP Center, Civil Engineering Department, NDSU

2:45 p.m. BREAK: Dakota Room

3:00 p.m. TITLE: "Erosion & Sediment Control Best Management Practices II"
SPEAKER: Frank Peloubet, Program Manager, ND LTAP Center, Civil Engineering Department, NDSU

4:30 p.m.: Adjourn all Sessions

5:00-7:00 p.m.: Buffet Dinner: Poolside (served in Candlelite I and II Rooms)

THURSDAY, OCTOBER 26, 2006

TABLETOP DISPLAY PROGRAM
Executive, Viking, and Norse Rooms

LAST CHANCE SETUP TIME:	7:00 a.m. - 7:30 a.m.
DISPLAY HOURS:	7:30 a.m. - 11:30 a.m.
TAKEDOWN TIME:	11:30 a.m. - 1:30 p.m.

FREE BREAKFAST BUFFET 8:00 a.m. - 10:00 a.m.

FIELD TRIPS:
10:00 a.m. Minot's Water Plant, Wastewater Lagoons, and Landfill
(Transportation Provided)

THURSDAY, OCTOBER 26, 2006

THURSDAY LUNCHEON
Dakota Room

11:45 a.m.
LUNCHEON AND BUSINESS MEETING
North Dakota Water Environment Association

President Gary Bracht - Presiding
Guest Speaker: Rebecca West, Vice President of the Water Environment Federation and Director of Technical Services, Spartanburg Water System and Sanitary Sewer District, Spartanburg, SC

1:00 p.m.
Motivational Speaker: To be announced.

THURSDAY EVENING ANNUAL BANQUET

SOCIAL HOUR: Candlelite Rooms I and II
5:00 p.m. - 6:00 p.m.
BANQUET: Dakota Room
6:00 p.m.
Invocation -
Master of Ceremonies -
Entertainment -

THURSDAY AFTERNOON CONCURRENT SESSIONS

SESSION A: Executive Room
Moderator: Charles Vein, NDAWWA

2:15 p.m. TITLE: "How Will Escalating Costs Impact Your Project"
SPEAKER: Deon Stockert, Drinking Water Manager, Advanced Engineering and Environmental Services

2:45 p.m. BREAK: Dakota Room

3:00 p.m. TITLE: "pH, Alkalinity and Hardness Fundamentals"
SPEAKER: Delvin DeBoer, Director of Water and Environmental Engineering Research Center, SDSU

3:30 p.m. TITLE: "Impacts of pH and Alkalinity on Water Treatment Processes"
SPEAKER: Delvin DeBoer, Director of Water and Environmental Engineering Research Center, SDSU

SESSION B: Viking Room
Moderator: Bill Gefroh, Secretary-Treasurer, NDWEA

2:15 p.m. TITLE: "Techniques for Constructing Water-tight Concrete Tanks"
SPEAKER: David Sethre, Marketing Director, North Dakota Ready Mix & Concrete Products Association

2:45 p.m. BREAK: Dakota Room

3:00 p.m. TITLE: "Sanitary Collection System Odor Control Case Study"
SPEAKER: Seth Lynne, Project Engineer, Ulteig Engineers

3:30 p.m. TITLE: "Operation Problems and Solutions for Lagoons and Lift Stations"
SPEAKERS: Steve Himmelspach, Wastewater Treatment Plant Superintendent, City of Mandan
Darin Billing, Environmental Engineer, North Dakota Department of Health
Lee Sigette, Wastewater Technician, North Dakota Rural Water Systems Association
Skip Rapp, Public Works Manager, City of Dickinson
Terry Rust, Wastewater Pretreatment Coordinator, City of West Fargo

SESSION C: Norse Room
Moderator: Rustin Roteliuk, Director, NDCAPWA

2:15 p.m. TITLE: "Temporary and Permanent Applications for Restrained Joint PVC Pipe"
SPEAKER: John Ostermann, West Region Sales Manager, Certain Teed Corporation

2:45 p.m. BREAK: Dakota Room

3:00 p.m. TITLE: "Placing Concrete Under Water"
SPEAKER: Hank Hauge, Technical Services Engineer, Strata Corporation

3:30 p.m. TITLE: "Four Bears Bridge"
SPEAKER: Mike Njos, Engineer, Kadrmas, Lee & Jackson

4:30 p.m.: **Adjourn all Sessions**

5:00 p.m.: **Social Hour: Candlelite I and II Rooms**

6:00 p.m.: **Annual Banquet: Dakota Room**

FRIDAY, OCTOBER 27, 2006

MORNING CONCURRENT SESSIONS

SESSION A: Executive Room
Moderator: David Bruschwein, Secretary-Treasurer, NDAWWA

8:30 a.m TITLE: "Switching to Chloramines"
SPEAKERS: Brett Jochim, Chief Operating Officer, Advanced Engineering and Environmental Services
Gary Zander, Water Plant Superintendent, City of Mandan
Gary Hager, Manager, Upper Souris Water Users

9:30 a.m. TITLE: "Basic Water Distribution"
SPEAKERS: Deon Stockert, Co-Chair, Education and Research Committee, NDAWWA
Jack Sjol, Public Works Superintendent, City of Williston
Rick Jore, City Engineer, City of Watford City
Leo Murr, Water Works Superintendent, City of Wahpeton
Dave Kratochvil, Water Distribution Supervisor, City of Grand Forks
Randy Seelig, Public Works / Water Works Superintendent, City of Lisbon

10:30 a.m. BREAK: Dakota Room

10:45 a.m. TITLE: "Alternatives for Disposing Water Treatment Residuals"
SPEAKERS: Deon Stockert, Drinking Water Manager, Advanced Engineering and Environmental Services
Russ Sorenson, Operations Manager, Advanced Engineering and Environmental Services

SESSION B: Viking Room
Moderator: Seth Lynne, Vice President, NDWEA

8:30 a.m. TITLE: "Standard Operating Procedure Manual / Field Test Results for Small Community Water Systems"
SPEAKER: Audrey Boe-Olsen, Rural Water Specialist, Midwest Assistance Program

9:30 a.m. TITLE: "Identifying the Severity & Type of Problem with Rotating Water / Wastewater Machinery"
SPEAKER: Jeffrey Rose, Sales Manager, Commtest, Inc.

10:30 a.m. BREAK: Dakota Room

10:45 a.m. TITLE: "Sanitary Sewer Inflow & Infiltration Case Study"
SPEAKER: Tom Welle, Vice President, Water / Wastewater Services, Ulteig Engineers

11:15 a.m. TITLE: "How to Update Your SCADA Control System"
SPEAKER: Heather Silseth, I & C Group Manager, Advanced Engineering and Environmental Services

7:30 a.m. **Annual Meeting for Public Works Directors and City Engineers**
Candlelite I Room

7:30 a.m. **North Dakota Operator Certification Advisory Committee Meeting**
Candlelite II Room

SESSION C: Norse Room
Moderator: Terry Rust, Director, NDWPCC

8:30 a.m. TITLE: "Northern Plains Commerce Centre"
SPEAKER: Brian Eiseman, Director of Municipal Services, Kadrmas, Lee & Jackson

9:30 a.m. TITLE: "Total Energy Optimization System"
SPEAKER: Paul Deichert, Consultant, Total Energy Concepts

10:30 a.m. BREAK: Dakota Room

10:45 a.m. TITLE: "Rainbow Arch Bridge"
SPEAKER: Wade Frank, Bridge Group Manager, Kadrmas, Lee & Jackson

11:45 a.m.: **Adjourn all Sessions**

FRIDAY LUNCHEON - Dakota Room

12:00 p.m. **JOINT LUNCHEON AND BUSINESS MEETINGS**
North Dakota Section of the American Water Works Association and the North Dakota Water and Pollution Control Conference

NDAWWA Chair Rick Gillund - Presiding
NDWPCC President Tom Welle - Presiding
Guest Speaker: Terry Rolan, President of the American Water Works Association and Director of Water Management Department, Durham, NC

AFTERNOON - **Candlelite I and II Rooms**
1:30 p.m. **Water and Wastewater Operators' Certification Examinations**

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 25, 26, AND 27, 2006
MINOT, NORTH DAKOTA
GRAND INTERNATIONAL INN

DESK REFERENCE GUIDE
TO
EXHIBITORS IN THE
TABLETOP DISPLAY PROGRAM

OCTOBER 26, 2006
7:30 a.m. to 11:30 a.m.
EXECUTIVE, VIKING, AND NORSE ROOMS
OF THE
GRAND INTERNATIONAL INN

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

Table #2
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
Cretex Concrete Products — Dale Heglund
925 Basin Avenue — 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. North Dakota Quality - Built to Last.

Table #6
Parsons Engineered Products, Inc. — Phil Parsons
3601 Park Center Blvd., #130 — 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 Avenue — 701-772-6687
Grand Forks, ND 58201 — FAX 701-772-4315
redgar@coninc.net

Concrete, Inc. manufacturers and erects precast/prestressed concrete building products.

Table #8
Dakota Pump and Control — Rob Gravatt
705 Quadee Drive SW — 800-310-4672
Watertown, SD 57201 — FAX 605-886-4674
dakota-pump@yahoo.com

Dakota Pump and Control has been a stocking distributor for sewer and water pumping and related equipment for over 35 years, representing: Fairbanks Morse, Hydromatic, Cornell, American Turbine, Columbian Steel - SST Bolted Tanks, Usemco packaged water booster and sewage stations/valve and meter vaults, Healy Ruff controls, Usemco controls, and OCV control valves. Dakota Pump and Control specializes in complete rehabs of sewage or water pump stations, 24-hour pump/lift station repair services and preventive maintenance programs, including: wide spectra vibration analysis, pump/lift station maintenance training.

Table #9
MVTL Laboratories — Rod Reetz
1411 South 12th Street — 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 Avenue North — 701-293-5511
Fargo, ND 58104 — FAX 701-232-8129
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. Today we have over 100 employees, with offices in Fargo and Bismarck, ND; Minneapolis and St. Cloud, 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
Electric Pump, Inc. — Jim Paulsen
72 South 27th Street — 701-293-0371
Fargo, ND 58103 — FAX 701-293-0204
jimpaulsenelectricpump@msn.com
Distributor of pumps, controls, and water and wastewater treatment products.

Table #12
ABM Equipment Supply, Inc. — Steve Bergeron
333 - 2nd Street NE — 1-800-229-5451
Hopkins, MN 55343 — FAX 952-938-0159
scottr@abm-highway.com
ABM Equipment & Supply, Inc. 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
Fargo Water Equipment — Jack Hendrickson
2410 - 5th Avenue North — 701-237-0222
Fargo, ND 58107 — FAX 701-237-9609

Table #14
North Dakota Sewage Pump Company — Jim Hughes
701-282-6760
1740 East Main Avenue #3 — 1-800-832-7055
West Fargo, ND 58078 — FAX 701-282-3579
ndstinker@aol.com
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 — Frank Peloubet
Civil Engineering Department
NDSU — 701-231-7051
Fargo, ND 58105 — FAX 701-231-5654
frank.peloubet@ndsu.edu
The North Dakota Transportation Technology Transfer Center, generally known as the North Dakota T^2 (T-squared) Center, was established in 1984. The Center is operated in a partnership with NDSU, the North Dakota Department of Transportation, FHWA, and the North Dakota Insurance Reserve Fund.
Local Technical Assistance Program (LTAP), services provided by the Center, encourages and enhances the exchange of highway transportation related information. Local units of government utilize the Center as a source for technical assistance and information, educational resources, and work force development.

Table #16
Tech Sales Company — Abraham Salamzadeh
311 West 44th Street — 612-823-8238
Minneapolis, MN 55409 — FAX 612-823-4272
salamzadeh@techsalesco.com
Tech Sales Co. specializes in flow monitoring, sampling, gas detection, odor control, and analytical instrumentation. We also offer gates, stop plates, stop logs, and fiberglass shatters.

Table #17
Advanced Engineering and Environmental Services, Inc. — Charles Vein
2016 Washington Street South — 701-746-8087
Grand Forks, ND 58201 — FAX 701-746-0370
Charlie.Vein@ae2s.com
Advanced Engineering and Environmental Services, Inc. (AE2S) is an award winning civil/environmental consulting engineering firm that provides professional services to municipal and rural clients in the Dakotas, Minnesota, and Montana. AE2S's corporate office is in Grand Forks, ND, with branch offices in Bismarck, ND, and Moorhead, Brainerd, and Minneapolis, MN, and a satellite office in Williston, ND. Primary services provided by our staff are water, wastewater, and stormwater system consulting, including master planning, capital improvement planning, studies and reports, design, bidding administration, and construction administration/observation. Civil engineering, surveying, mapping, geographic information systems (GIS), and site development services are also provided.

Table #18
American Ductile Iron Pipe — Brad Forester, PE
21695 Highview Avenue — 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 #19
SolarBee — Michael Christensen
PO Box 1930 — 866-553-5590
Dickinson, ND 58601 — FAX 507-553-6980
MikeC@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 #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

Larson Data Communications — Mike Larson
305 North Lawler Street — 605-996-5521
Mitchell, SD 57301 — FAX 605-996-5642
mike.larson@larsondata.com

Larson Data Communications is a relatively new company with old roots in wireless data connectivity and the upper Midwest. We specialize in total solutions connectivity for industrial and commercial wireless and networked data systems with throughputs ranging from 1.200 kbps to 1 gbps. We have over 25 years of experience with Point-to-Point, Point-Multipoint, and Mobile Data systems. As the MDS Full Service Distributor for Nebraska, Montana, South Dakota, and North Dakota, we are proud to offer the most technologically advanced, most reliable, and most widely used industrial data radio product line available. Our customers are among the best industrial data connected and supported companies in the world.

Table #23

Commtest Instruments, Ltd. — Jeffrey Rose
6700 Baum Drive, Ste.12 — 865-588-2946
Knoxville, TN 37919 — FAX 865-588-2949
jrose@commtest.com

Founded in 1989 in New Zealand, Commtest Instruments, Ltd. (Commtest) is a privately held company whose mission is to bring the benefits of vibration analysis to mainstream industry. Small and medium-sized companies were previously not able to implement condition monitoring programs due to the high cost of data collection and analyzing equipment. With Commtest's product line, companies of all sizes can now afford a condition monitoring program, and realize the return on investment from equipment optimization and scheduled downtimes. Commtest's flagship product, the vbOnLine, is flexible, modular, and permanently installed to remotely monitor the health of critical assets 24/7, automatically alerting to potential problems.

Table #24

Kemper Construction Company — George Kemper
PO Box 8 — 701-838-1733
Minot, ND 58702 — FAX 701-839-5533
kemperconst@srt.com

Pipe bursting, as a method for replacing sewer and water mains, is catching on. Since 2004, Kemper Const. has replaced 50,000 feet of pipe by this method, saving owners on resurfacing costs with much less disruption. We will be displaying information and answering questions on how you can design and specify your next project.

Table #25

Quest Engineering — Craig Schmidt
1801 Mandan Avenue — 701-663-4181
Mandan, ND 58554 — FAX 701-663-8348
craigs@questenginc.com

Quest Engineering, Inc., as a leader in fluid specialty distribution, we provide a diverse product offering, connectors to monitoring equipment for the water and wastewater industries, as well as a broad range of other industries. ISO 9001:2000 certified, Quest Engineering specializes in solving the most difficult fluid problems. Problems with size, pressure, temperature, aggressive media or new technology? Quest Engineering will solve it for you, tailored to your specifications.

Table #26

Interstate Power Systems — Darrell Binek
3801 Commerce Drive — 701-258-2303
Bismarck, ND 58501 — FAX 701-224-0322
dbinek@istate.com

Interstate Power Systems is the local distributor for Kohler Generators, MTU/DDC Engines, Allison Automatic Transmissions, TEREX Equipment, and a full service and parts support.

Table #27

Kadrmas, Lee & Jackson, Inc. — Brian Eiseman, PE
28 Soo Line Drive — 701-355-8400
Bismarck, ND 58501 — FAX 701-355-8781
brian.eiseman@kljeng.com

Kadmas, 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
martyg@sjerhombus.com

Manufacturers of float switches, level alarms, control panels, and embedded controls for the water and wastewater industry.

Table #29

Bartlett and West Engineers, Inc. — Joseph M. Bichler, PE
3456 East Century Avenue — 701-258-1110
Bismarck, ND 58503 — FAX 701-258-1111
joseph.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

Mishler Sales Inc. — Rex Mishler
222 North Frontage Road — 406-633-2316
Park City, MT 59063 — FAX 406-633-2650
mishler@wtp.net

Mishler Sales Inc. represents manufacturers of quality products for the water, wastewater, storm drain, and irrigation markets. We assist designers, owners, distributors, and contractors in selecting products for use in those industries. Our industry experience is in PVC pipe, joint restraints, drainage pipe, repair clamps, couplings, casing spacers, service saddles, tapping sleeves, hydraulic control valves, pressure reducing, pump control, altitude, anti-cavitation, relief, concrete and steel prefabricated valve vaults, sewer service branch, and other related items.

Most items are sold through distributors in their respective industries and appropriate areas of coverage.

Table #31

Northern Dewatering — Tyler Engberg
14405 Northdale Blvd. — 763-428-2616
Rogers, MN 55374 — FAX 763-428-2671
NorthernDewatering.com

Full service sewer bypass, soil dewatering, and general pumping. Turn key with operators, just turn key, rental or sales.

Table #32

Tonka Equipment Company — Todd Butz
13305 Watertower Circle — 763-559-2837
Plymouth, MN 55441 — FAX 763-559-1979
1ferguson@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
971 - 4th Street (PO Box 32) — 715-896-0896
Taylor, WI 54659 — FAX 715-662-3905
jkniseley@fordmeterbos.com

Ford Meter Box is a manufacturer of waterworks brass and pipe products, including corporation stops, saddles, curb stops and boxes, couplings for pipe, tubing and meters, meter pits and setters, test benches, repair clamps, transition couplings and restraints.

Table #34

Quality Flow Systems, Inc. — Kevin Huson
800 - 6th Street NW — 952-758-9445
New Prague, MN 56076 — FAX: 952-758-9661
kevin@QFSI.net

Table #35

Widseth Smith Nolting & Assoc., Inc. — Dan Johnson, P.E.
2715 South Washington Street — 701-795-1975
Grand Forks, ND 58208 — FAX 701-795-1978
wsngf@wsn-mn.com

Widseth Sith 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 and Alexandria, Bemidji, Brainerd/Baxter, and Crookston, MN.

Table #36

Energy Laboratories, Inc. — Scott Summers
PO Box 30916 — 800-735-4489
Billings, MT 59107-0916 — FAX 406-252-6069
ssummers@energylab.com

Founded in 1952, Energy Laboratories, Inc. (ELI) provides independent, quality-controlled, and confidential analytical services. With seven laboratories, ELI is equipped to meet the analytical needs of mining companies, oil & gas operations, petroleum refining, electrical utilities, industrial and manufacturing firms, large and small

municipal water systems, professional engineering and consulting firms, and federal, state, and municipal government agencies. ELI maintains certification with EPA and NELAC to support regulatory requirements.

Table #37

Hawkins, Inc. — Kollin Syverson
Hawkins Water Treatment Group — 701-462-8588
3100 East Hennepin Avenue — FAX 701-462-8247
Minneapolis, MN 55413
Kollin.syverson@hawkinsinc.com

HWTG is a distributor of water treatment products to customers in ten states across the upper Midwest. Our mission is to give our customers on-time deliveries, technical service and support, and quality products. Our customers include municipal, industrial manufacturing, and food processing, water and wastewater treatment, municipal and commercial swimming pools.
Products we provide include: gas chlorine, sodium hypochlorite, fluoride, phosphates, potassium permanganate, polymers, hydrochloric acid, sulfuric acid, caustic soda, calcium hypochlorite, soda ash, sulfur dioxide, anhydrous ammonia, and RO membrane treatment products. Equipment we supply includes: gas chlorinators, metering pumps, PPG tablet feeders, testing, tanks, and hypochlorite generators.

Table #38

INFRATECH — Jeff Janiksela
21040 Commerce Blvd. — 763-428-6488
Rogers, MN 55374-9341 — FAX 763-428-6489

No dig restoration of wastewater collection systems, sewer televising and jet/vac services, manhole restoration, specialty coatings, gas monitors, tripods, line and cable locators, portable and mainline camera equipment, jetter replacement parts; i.e., nozzels, hose, suction tube, etc., and I and I control specialists.

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.

Table #40

Treatment Resources, Inc. — Bill Vose
794 Springhill Court — 612-201-5630
Woodbury, MN 55125 — FAX 763-420-9824
bvose@treatmentresources.com

Manufacturers representative of water and wastewater treatment equipment offering innovative process solutions.

Table #41

Infilco Degremont, Inc. — Ron MaGee
8007 Discovery Drive — 804-756-7600
PO Box 71390 — FAX 804-756-7643
Richmond, VA 23255-1390

Table #42

Visu-Sewer Clean and Seal, Inc. — Greg Baumann
7905 Beech Street NE — 763-252-0004
Fridley, MN 55432 — FAX 262-695-2359
gbaumann@visu-sewer.com

Visu-Sewer is the oldest and largest full service sewer rehabilitation contractor in the Midwest. We specialize in "trenchless" techniques for the inspection, maintenance and rehabilitation of municipal sewer systems. Our services include: TV Inspection, Pipe Cleaning, Pipe and Manhole Grouting, Pipe Lining with National Liner (CIPP) and U-Liner (Fold and Form), Sectional Lining, Manhole/Lift Station Lining with the Strong Seal System (cementatious) and Raven Lining System (epoxy).

Table #43

Ulteig Engineers — Tom Welle
3350 - 38th Avenue South — 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 #44

Ulteig Engineers — Tom Welle

Table #45

Star Pipe Products — Joe Anderson
6477 West Shadow Lake Drive — 612-327-0554
Lino Lakes, MN 55014 — FAX 651-484-1938
joea@starpipeproducts.com

Star Pipe Products has been manufacturing and distributing quality iron products for the water and wastewater industry for more than 25 years. With 13 distribution centers across North America, and over 300 employees, Star Pipe Products remains committed to providing customers with quality products and professional service. Star Pipe Product lines include utility pipe fittings, joint restraints, AWWA grooved products, and municipal castings.

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CPS Engineering
308 - 2nd Avenue North
Grand Forks, ND 58203
701-746-7459

Cutler-Magner Company
12th Avenue West & Waterfront
PO Box 16807
Duluth, MN 55816-0807
218-722-3981

Dakota Pump and
Control Company, Inc.
PO Box 725
Watertown, SD 57201-0725
605-886-4672
FAX: 605-886-4674
dakotapump@iw.net

Fargo Water Equipment
4557 - 15th Ave. N
Fargo, ND 58107

Graymont Western Canada, Inc.
3026 - 12th Street NE, Ste.190
Calgary, Alberta
Canada T2E 7J2
403-250-9100

Houston Engineering, Inc.
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Conference	Host City	President	President's Residence	Conference	Host City	President	President's Residence
2006	Minot	Tom Welle	Moorhead	1967	Grand Forks	A.E. Forsman	Grand Forks
2005	Bismarck	Jack Long	Bismarck	1966	Mandan	Alvin Mickelson	Casselton
2004	Fargo	Rick Gillund	Enderlin	1965	Fargo	Ken Ruby	Fargo
2003	Minot	Mike Schneider	Bismarck	1964	Minot	Al Swanson	Jamestown
2002	Bismarck	Pat Denne	West Fargo	1963	Valley City	Carl Torkelson	Grafton
2001	Fargo	Charles Jaszkowiak	Bismarck	1962	Williston	Glenn Berg	Minot
2000	Dickinson	Randal Loeslie	Thompson	1961	Jamestown	Richard Fuller	West Fargo
1999	Minot	Paul Lacina	Valley City	1960	Bismarck	Frank Orthmeyer	Grand Forks
1998	Bismarck	Mel Bullinger	Bismarck	1959	Grand Forks	Herbert Arnold	Williston
1997	Fargo	Wayne Tunseth	Mayville	1958	Dickinson	L.W. Veigel	Dickinson
1996	Minot	Don Olafson	Valley City	1957	Fargo	Erik Peterson	Jamestown
1995	Bismarck	Waide Kritsky	Jamestown	1956	Mandan	Edwin Ostlie	Grand Forks
1994	Fargo	Byron Thronson	Minot	1955	Williston	Paul Hays	Minot
1993	Minot	Joe Manning	Fargo	1954	Grand Forks	C.M. Hagen	Oakes
1992	Bismarck	Tom Little	Mandan	1953	Minot	C.T. Stephenson	Jamestown
1991	Fargo	Richard Wanner	Bismarck	1952	Jamestown	Ed Booth	Bismarck
1990	Williston	Richard Resell	Williston	1951	Fargo	H.H. Behimer	Fargo
1989	Minot	Dwight Wurzbacher	Grand Forks	1950	Bismarck	A.F. Hulteng	Grand Forks
1988	Grand Forks	Phil Furaus	Harvey	1949	Dickinson	George Toman	Mandan
1987	Dickinson	Dale Hanson	Valley City	1948	Minot	R.J. Lockner	Cooperstown
1986	Bismarck	Dan Boyce	Grand Forks	1947	Grand Forks	John Kleven	Grand Forks
1985	Fargo	Lyle Weeks	Minot	1946	Mandan	S.K. Svenkeson	Minot
1984	Williston	Kenneth Reynolds	Bismarck	1945	Fargo	F.W. Pinney	Fargo
1983	Minot	Dale Townsend	Carrington	1944	Bismarck	Dave MacDonald	Bismarck
1982	Mandan	Peter Bilstad	Fargo	1943	Grand Forks	Joe Morrissey	Jamestown
1981	Jamestown	Don Cuskelly	Dickinson	1942	Williston	Elmer Pearson	Minot
1980	Grand Forks	Don Erikson	Watford City	1941	Jamestown	R.M. Jenson	Grand Forks
1979	Bismarck	Ken Skuza	Fargo	1940	Wahpeton	William Nordley	Edgeley
1978	Dickinson	Gerald Zander	Mandan	1939	Dickinson	William Yegen	Bismarck
1977	Fargo	Keith Cornell	Grand Forks	1938	Minot	S.S. Calvelage	Jamestown
1976	Minot	Peter Mellmer	Bismarck	1937	Mandan	Ora Ayliffe	Fargo
1975	Mandan	Lyle Mitzel	Wahpeton	1936	Fargo	S.P. Ravnos	Mandan
1974	Grand Forks	Daniel Reiter	Minot	1935	Grand Forks	H.T. Hintgen	Wahpeton
1973	Jamestown	Russell Kain	Neche	1934	Bismarck	W.H. Robinson	Williston
1972	Williston	John Muus	Grand Forks	1933	Jamestown	O.N. Bergman	Valley City
1971	Fargo	Donald Wenaas	Jamestown	1932	Minot	E.L. Lium	Grand Forks
1970	Minot	Harry Hanson	Bismarck	1931	Fargo	W.P. Tarbell	Fargo
1969	Bismarck	Clarence Johnson	Garrison	1930	Grand Forks	E.J. Thomas	Minot
1968	Dickinson	Bevan Shaw	Williston	1929	Bismarck	A.L. Bavone	Bismarck

Long Term 2 Enhanced Surface Water Treatment Rule

by Jeni Walsh, Environmental Scientist, Division of Municipal Facilities, North Dakota Department of Health

Note: This is the second of a two-part series on the Long Term 2 Enhanced Surface Water Treatment Rule. This article will explain and describe the sampling schedule and procedures related to the rule and also briefly explain bin classification, disinfection profiling and benchmarking, and treatment requirements.

In the June 2006 issue of the *Official Bulletin*, the Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR) was summarized and explained. This rule, which builds on existing surface water treatment rules, is a flexible risk-based rule that accounts for the current level of treatment, source water quality and system size. The purpose of the LT2ESWTR is to improve public health protection through the control of microbial contaminants by focusing on public water systems (PWSs) with elevated *Cryptosporidium* risk. The LT2ESWTR also prevents significant increases in microbial risk that occur when systems comply with the Stage 2 Disinfectants and Disinfection Byproducts Rule.

Initial source water monitoring is required of all Subpart H systems (surface water systems and ground water deemed under the direct influence of surface water). Filtered systems serving at least 10,000 people must sample their source water for *Cryptosporidium*, *E. coli* and turbidity at least monthly for 24 months. Filtered systems serving fewer than 10,000 people must sample their source water for *E. coli* at least once every two weeks for 12 months. The population breakdown and sample schedule is found in the following table:

Long Term 2 Enhanced Surface Water Treatment Rule
Initial Source Water Monitoring Requirements for Subpart H Systems
(Surface Water and Ground Water Under the Direct Influence of Surface Water)

Schedule	Population	PWS Name	Sampling Schedule Due	Begin Monitoring	Monitoring Indicators	Monitoring Frequency
1	> 100,000	None	Jul 1, 2006	Oct 2006	Crypto E. Coli Turbidity	Monthly for 24 months
2	50,000-99,999	Bismarck Fargo	Jan 1, 2007	Apr 2007		
3	10,000-49,999	Grand Forks Minot SW Water Users Williston	Jan 1, 2008	Apr 2008		
4	< 10,000	Dickinson Garrison Grafton Langdon Mayville Penbold Park City Rugby Walhalla Antelope Valley Cayuse Stanton Dakota Gas Leland Olds	Jul 1, 2008	Oct 2008	E. Coli	Once every 2 weeks for 12 months

Systems that are required to conduct source water monitoring must submit a sampling schedule that specifies the calendar dates when the system will collect each required sample. Systems must submit the sampling schedules to the North Dakota Department of Health's Drinking Water Program (DWP) no later than three months prior to sampling. The applicable dates are listed in the table on page 32.

Systems must collect the source water samples prior to chemical treatment (e.g., coagulants and disinfectants). If this is not feasible, a system may take a source water sample after chemical treatment only with prior approval from the DWP. Systems that recycle filter backwash water must collect source water samples prior to the point of filter backwash water addition.

The department's Division of Laboratory Services -Microbiology is not certified to do *Cryptosporidium* analysis; therefore, systems will need to contact another laboratory for this service. Laboratories certified to analyze *E. coli* will be easiest to find. The methodology is different from that used in the monthly bacteriological testing and will, therefore, be at a higher cost to the system. Turbidity monitoring must be performed by a state-approved party. Systems are encouraged to start contacting laboratories now to arrange for sampling.

Disinfection Profiling and Benchmarking Requirements

Following the completion of initial source water monitoring, a system that plans to make a significant change to its disinfection practice must develop disinfection profiles and calculate disinfection benchmarks for *Giardia lamblia* and viruses. Prior to changing the disinfection practice, the system must notify and provide the state with information including:

1. A completed disinfection profile and disinfection benchmark for *Giardia lamblia* and viruses.
2. A description of the proposed change in disinfection practice.
3. An analysis of how the proposed change will affect the current level of disinfection.

Significant changes to disinfection practice are defined as follows:

1. Changes to the point of disinfection.
2. Changes to the disinfectant(s) used in the treatment plant.
3. Changes to the disinfection process.
4. Any other modification identified by the state as a significant change to disinfection practice.

Treatment Technique Requirements

Following completion of the initial round of source water monitoring, filtered systems must calculate an initial *Cryptosporidium* bin concentration for each plant for which monitoring was required. Calculation of the bin concentration must use the *Cryptosporidium* results and must follow the procedures listed below:

1. For systems that collect a total of at least 48 samples, the bin concentration is equal to the arithmetic mean of all sample concentrations.
2. For systems that collect a total of at least 24 samples, but not more than 47 samples, the bin concentration is equal to the highest arithmetic mean of all sample concentrations in any 12 consecutive months that *Cryptosporidium* samples were collected.
3. For systems that serve fewer than 10,000 people and monitor for *Cryptosporidium* for only one year (24 samples in 12 months), the bin concentration is equal to the arithmetic mean of all sample concentrations.
4. For systems that operate their plants only part of the year, monitoring fewer than 12 months per year, the bin concentration is equal to the highest arithmetic mean of all sample concentrations during any year of *Cryptosporidium* monitoring.
5. If the monthly *Cryptosporidium* sample frequency varies, systems must first calculate a monthly average for each month of monitoring. Systems must then use these monthly average concentrations for calculation for bin classification.

***(LT2ESWTR**...cont. on page 34)*

(LT2ESWTR...*cont. from page 33)*

Initial bin classifications must be reported to the state no later than 6 months after the system has completed initial source water monitoring. If, at that time, systems are classified in Bin 1, no additional treatment will be required. If systems are classified in Bins 2, 3 or 4, additional removal or inactivation will be required based on the type of filtration technology used by the system. Please see table below.

For questions concerning the LT2ESWTR, please contact Greg Wavra at 701.328.5224 or gwavra@nd.gov.

References

40 CFR Parts 141 and 142

Cryptosporidium Concentration (oocysts/L)	Bin Classification	Additional Cryptosporidium Treatment Required			Alternative Filtration Technologies
		Conventional Filtration	Direct Filtration	Slow sand or Diatomaceous Earth Filtration	
<0.075	Bin 1*	No additional treatment required	No additional treatment required	No additional treatment required	No additional treatment required
0.075 to <1.0	Bin 2	1 log	1.5 log	1 log	(1)
1.0 to <3.0	Bin 3	2 log	2.5 log	2 log	(2)
≥3.0	Bin 4	2.5 log	3 log	2.5 log	(3)

* Systems that are serving < 10,000 people and do not exceed *E.coli* trigger limits are not required to monitor for *Cryptosporidium* and are placed in Bin 1.

(1) As determined by the State such that the total *Cryptosporidium* removal and inactivation is at least 4.0-log.

(2) As determined by the State such that the total *Cryptosporidium* removal and inactivation is at least 5.0-log.

(3) As determined by the State such that the total *Cryptosporidium* removal and inactivation is at least 5.5-log.

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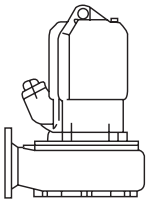

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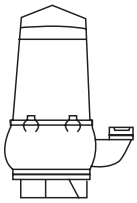

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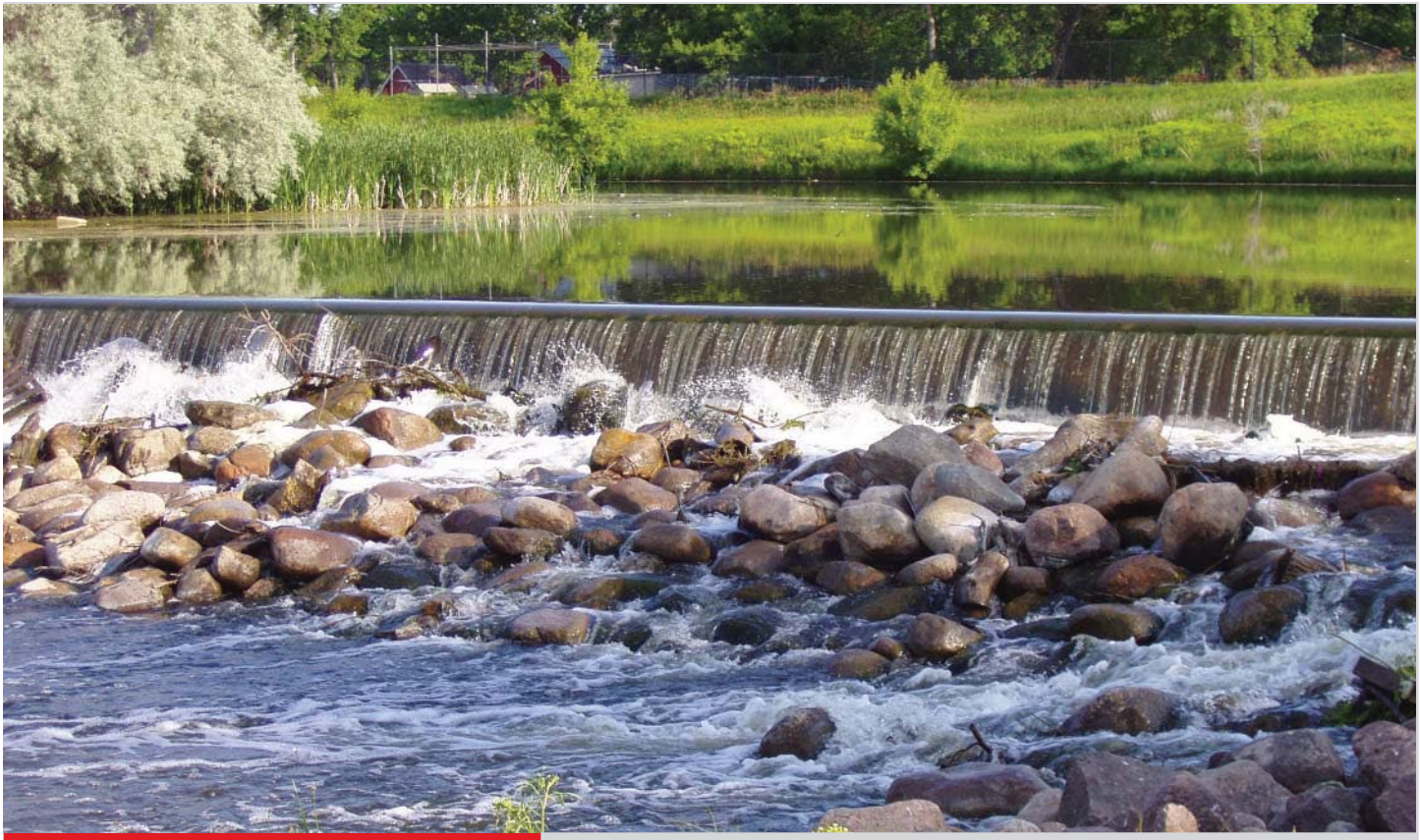

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