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NDWPCC President Bill Gefroh
Grand Forks Public Works
North Dakota AWWA Young Professionals

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

OFFICIAL BULLETIN

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Conference Issue

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INDEX TO ADVERTISERS

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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.

CONFERENCE BUSINESS PHONE:

701-328-66

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On the cover: Grand Forks Art Fest, Grand Forks, North Dakota. Photo provided by Grand Forks Public Works Department.

To receive the *Official Bulletin* electronically or to no longer receive a paper copy, email Justin Feld at jfeld@nd.gov, or call 701-328-6624.

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

NDWPCC President's Letter

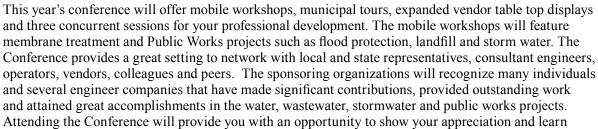
by Bill Gefroh, North Dakota Water and Pollution Control Conference President

Dear Members and Friends of the Conference:

The annual North Dakota Water and Pollution Control Conference is jointly sponsored by the North Dakota Water and Pollution Control Conference, the North Dakota Water Environment Association, the North Dakota Section of the American Water Works Association, the North Dakota Chapter of the American Public Works Association and the North Dakota Chapter of the North American Stormwater and Erosion Control Association. On behalf of these sponsoring organizations, I

am delighted to invite you to attend the 85th Annual Conference on October 22, 23 and 24 at the Alerus

Center in Grand Forks.



about the recently completed and upcoming projects. Discussions are held on the upcoming regulatory issues. Attendees will also be able to network with other professionals and view the newest products that the vendors will showcase that can make your job easier and safer.

In addition, there will be a preconference workshop addressing "Disaster Management." This is a one-day workshop scheduled for Monday October 21, 2013, from 9 AM to 5 PM at the Grand Forks Public Works facility.

I hope to see you in Grand Forks at the Conference and encourage you to become an active member in one of the sponsoring organizations. Mark your calendar and register early.

Sincerely, Bill Gefroh, President

2013 Conference Officers



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2013 ANNUAL CONFERENCE ACTIVITIES

EARLY BIRD WELCOME

Monday 6:30 p.m. - 9:30 p.m.

Upper Playmakers Lounge

Canad Inn

REGISTRATION

 Tuesday
 8:00 a.m. - 5:00 p.m.

 Wednesday
 8:00 a.m. - 5:00 p.m.

 Thursday
 8:00 a.m. - 10:00 a.m.

Pre-Function Area Alerus Center Door 5

MEALS

Tuesday Lunch 11:30 a.m.

Aurora Ballroom

Tuesday Reception 6:30 p.m. - 8:30 p.m.

Aurora Ballroom

Wednesday Free Buffet Breakfast 8:00 a.m. - 10:00 a.m.

Sponsored by Vendors and Suppliers

Aurora Ballroom

Wednesday Lunch 12:00 noon

Aurora Ballroom

Wednesday Social 5:30 p.m.

Aurora Ballroom

Wednesday Banquet 6:30 p.m.

Aurora Ballroom

Thursday Lunch 12:00 noon

Aurora Ballroom

GOLF TOURNAMENT

Tuesday 1:00 p.m.

King's Walk Golf Course 5301 S Columbia Rd

FIELD TRIPS

Monday 2:00 p.m.

Grand Forks Municipal Facilities

Tuesday 9:00 a.m.

Grand Forks Municipal Facilities

Thursday

Grand Forks Municipal Facilities 2:00 p.m.

SPOUSE/GUEST PROGRAM

Wednesday 11:00 a.m. - 1:30 p.m.

A free spouse/guest program Wednesday October 23rd, will include an 11:00 a.m. luncheon

and 12:30 p.m. tour

WATER AND WASTEWATER OPERATOR CERTIFICATION EXAMINATIONS

Tuesday 7:30 a.m. - 11:30 a.m.

Ambassador C Room Canad Inn

ph certification

Tuesday 9:00 a.m. - 11:00 a.m.

Finch Room Alerus Center

YP POSTER COMPETITION

Tuesday 6:30 p.m. - 8:30 p.m.

Aurora Ballroom

TABLETOP DISPLAY PROGRAM

Aurora Ballroom

Tuesday 8:00 a.m. - 5:00 p.m.

Check in at the Registration Desk

Tuesday 7:00 p.m. - 9:00 p.m.

Setup Time

Wednesday 7:00 a.m. - 7:30 a.m.

Last Chance Setup Time

Wednesday 7:30 a.m. to 11:30 a.m.

Display Hours

Wednesday 1:30 p.m. to 3:30 p.m.

Takedown Time

Wednesday 1:30 p.m. to 2:30 p.m.

Field Demonstrations

Tapping & Sewer Televising

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Hazel Sletten Deb Stewart
Dave Kresel Dave Kratochvil
Joe Ferguson Don Tucker

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City of West Fargo Celebrates National Public Works Week

by Chad Zander, West Fargo Public Works

In cooperation with the APWA National Public Works Week, the City of West Fargo celebrated National Public Works Week on Wednesday May 15, 2013. "Since 1960, APWA has sponsored National



Students, Teachers and Public Employees Participate in Public Works Week

Public Works Week. Across

North America, our more than 28,000 members in the



Students Learn the Importance of Public Works

U.S. and Canada use this week to energize and educate the public on the importance of the contribution of public works to their daily lives: planning, building, managing and operating the heart of our local communities and building the quality of life." (APWA, 2013)

The City of West Fargo celebrated by inviting four third-grade classes to its public works facility in West Fargo. Included were one hundred kids and their respective teachers from

Westside Elementary School in West Fargo. The activities lasted for

several hours and included educational sessions, games and equipment demos.

The educational sessions included a program on the City's water system and another on storm water and pollution prevention. The students were also provided with a public works activity book, several APWA pencils and a pencil holder. The City allowed the students to sit in and learn about six common pieces of equipment. The equipment included a motor grader, sanitation packer, recycling truck, truck plow, street sweeper and a pay loader.

The City received a very good response from both the students and the teachers on the value of the field trip. Overall, it was a very successful demonstration and educational opportunity for the students.



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Membership Application

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

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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 \$26 USD/CAN 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).

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.

	Number of	
	Rostered	Annual
	Members	Dues
Population Served	Covered*	USD/CAN
□ 0 − 10,000	2	\$ 276
□ 10,001 − 25,000	4	\$ 552
□ 25,001 – 50,000	6	\$ 828
□ 50,001 − 100,000	10	\$1380
□ 100,001 − 300,000	16	\$2208
300,001 – 500,000	20	\$2760
□ 500,001 − 1,000,000	26	\$3588
☐ More than 1,000,000	30	\$4140
☐ Federal Agency	50	\$6900

	Number of	
	Rostered	Annual
Corporate Membership	Members	Dues
Level	Covered*	USD/CAN
☐ Heritage	2	\$ 403
☐ Prestige	10	\$1683
☐ Crown	40	\$7991

*You may designate additional members for \$138 USD/CAN each.

Fee schedule effective through December 31, 2012

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.

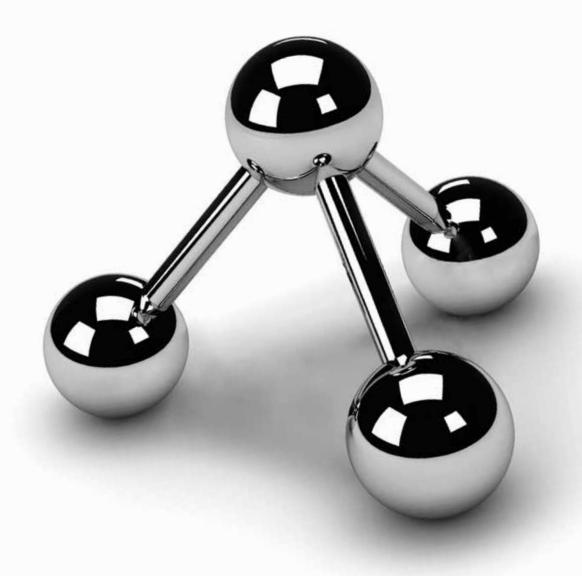
APWA membership dues are not deductible as a charitable contribution but may be deductible as an ordinary business expense, subject to IRS limits. APWA does not designate the use of membership dues for lobbying or advocacy efforts, however eight percent (8%) of our total operating budget is allocated 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



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AWWA Board of Trustees Meeting Minutes

May 14, 2013, Mandan, North Dakota

The spring meeting of the North Dakota Section of the American Water Works Association was held at the Seven Seas Inn in Mandan, N.D. on May 14, 2013. Present at the meeting were Chair Eric Volk, Chair-elect Jason Sorenson, Past-chair Tim Paustian, Director Larry Thelen, Trustee Nancy Huether, Assistant Secretary/Treasurer Greg Wavra. Others attending the meeting were Joe Fergusson, Lisa Ansley, Dean Sletten, Darrell Casteel, Murthy Kasi, Mark Peterson and Hazel Sletten.

The meeting was called to order by Mr. Volk at 8:00 a.m.

Secretary Report

The Secretary's Report was presented by Mr. Thelen. Mr. Paustian moved to approve the minutes of the January 15, 2013 Board Meeting. Mr. Sorenson seconded the motion. The motion carried.

Treasure's Report

Mr. Wavra presented the Treasurer's Report. As of May 13, 2013, the Section had income of \$15,116.13 and expenses of \$4,872.15. The Section has \$31,809.30 in the checking and money market accounts. The Section also has \$83,964.13 in student support endowments and reserve accounts. Ms. Huether moved to accept the Treasurer's report. Mr. Paustian seconded the motion and the motion carried.

Committee Reports

Education and Research Committee:

Science Fair – Judges were John "Fred" Goetz and Rod Kalis from the Grand Forks Water Treatment Plant. The Junior Division winner was Brandon Skjoiten from the Hankinson School District. His project was titled "A Chemical and Biological Analysis of Lake Elsie". The Senior Division winner was Kelsey Gaukler from the Hankinson School District. Her project was titled "The Hydrological Assessment of Area Lakes." Both received a cash award of \$75.00 and a certificate.

YP – Ms. Sletten and Mr. Kasi will work together regarding a student "meet and greet" and the YP posters coordination, and the possibility of a University forum at

at the conference on Tuesday.

Water Day - Water Day at the State Fair is Thursday, July 25, 2013. Ms. Sletten and Mr. Volk will be there, and Mr. Sorenson will help if his schedule allows. The AWWA booth will be next to the NDRW booth and the Grand Forks booth. Mr. Thelen indicated he would check his schedule to see if he would be available to help. Ms. Huether moved to approve the \$100.00 fee for the booth. Mr. Thelen seconded the motion, and the motion carried.

Surface Water Workshop - The 2014 SWW is scheduled for April 29, 30 and May 1, 2014. It will be held at the Holiday Inn in Fargo. Ms Sletten will work with Mr. Thelen and Ms. Courtney Peterson to schedule a meeting in Ms. Meredith Quinn's absence.

The Section will also work to provide topics and presenters for the conference. The conference will have a mobile workshop providing information on membrane treatment.

PR Committee:

Sarah Volk is working on updating the AWWA website. The update is scheduled to be completed in May.

Water for People Committee

Mr. Thelen and Ms. Sletten will prepare and present the permit to the City of Grand Forks to have a raffle at the conference. There will be cash prizes of \$150.00, \$100.00 and \$50.00. The drawing will be held at the banquet.

Membership Committee:

Currently, the Section has 349 total members. Of those, 16 are on the late roster. The Section is also participating in the 2013 Membership Challenge. The goal is to retain 67 percent of the first-year members.

MAC Committee:

Ms. Ansley and Mr. Casteel are still working with vendors to start a MAC in the section. There will be a pipe tapping demonstration at the conference.

Director's Report

The winter board meeting was held in Nashville, Tenn. During that meeting, Mr. John Donahue was elected President-Elect. The following were elected to serve as Association vice-presidents: John Alston (Montana Section); Douglas Brinkman (Chesapeake Section); Jeff Nash (Florida Section); and Michael Simpson (Indiana Section). Martha Segal from the Kentucky-Tennessee Section was elected director-at-large.

The AWWA visiting officer for the conference will be Mr. Charlie Anderson, Past-President.

Old Business

Mr. Volk and Ms. Huether attended the Region Meeting of Section Officers in Milwaukee, Wisconsin. There were 43 regional members who attended the meeting. One of the topics discussed was how to recruit and retain small system members. NDAWWA will host the RMSO in 2016.

Mr. Volk reminded the nominating and awards committees (Trustee, Fuller, and Operator Meritorious) to complete their selections so ballots and awards could be prepared in time for the conference.

Mr. Paustian and Mr. Thelen reported that the By-law changes have been submitted to the Association for approval so they can be voted on at the member meeting in October.

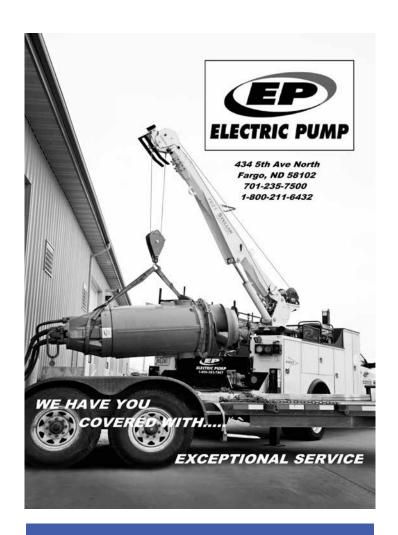
New Business

Summer Workshop – Mr. Murthy Kasi would be asked if he was interested in attending the Summer Workshop in Denver, July 24-25, 2013.

Section Staff – Ms. Huether brought up the possibility of the Section looking at part-time staff. She felt that with all the things going on and the workload of the volunteers that maybe it is a good time to have a discussion about it. It was decided to discuss it more at the October meeting.

Mr. Paustian moved to adjourn. Ms. Huether seconded the motion, and the motion carried.

Respectfully submitted, Larry Thelen, Director/Assistant Secretary/Treasurer



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Host City	Bismarck	Dickinson	Grand Forks	Mandan	Fargo	Minot	Valley City	Williston	Jamestown	Bismarck	Grand Forks	Dickinson	Fargo	Mandan	Williston	Grand Forks	Minot	Jamestown	Fargo	Bismarck	Dickinson	Minot	Grand Forks	Mandan	Fargo	Bismarck	Grand Forks	Williston	Jamestown	Wahpeton	Dickinson	Minot	Mandan	Fargo	Grand Forks	Bismarck	Jamestown	Minot	Fargo	Grand Forks	Bismarck			
Conference	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929			
President's Residence	Bismarck	Fargo	Bismarck	Grand Forks	Bismarck	West Fargo	Fargo	Moorhead	Bismarck	Enderlin	Bismarck	West Fargo	Bismarck	Thompson	Valley City	Bismarck	Mayville	Valley City	Jamestown	Minot	Fargo	Mandan	Bismarck	Williston	Grand Forks	Harvey	Valley City	Grand Forks	Minot	Bismarck	Carrington	Fargo	Dickinson	Watford City	Fargo	Mandan	Grand Forks	Bismarck	Wahpeton	Minot	Neche	Grand Forks	Jamestown	Bismarck
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Conference	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970

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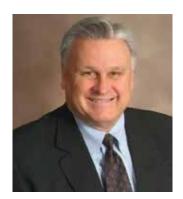


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National Representatives

2013 North Dakota Water and Pollution Control Conference



Charles F. Anderson Immediate Past-President (2013 – 2014) American Water Works Association

In his 40 years of employment in the public and private sector, Charlie Anderson has been involved in several aspects of the water business. In 2005 he retired from the City of Arlington, Texas after serving as assistant director and director of utilities for 31 years, and as deputy city manager from 2003–2005. Currently, Charlie works for CDM Smith, Inc. in its Fort Worth, Texas office as a management consultant.

Anderson joined AWWA in 1972, has served concurrently as the Texas Section Director and AWWA Vice President. He has served AWWA nationally as a member of the Coagulation-Filtration, Landmarks Award, Management Development Committees, and as the AWWA Management Division Chair. He has served the Texas Section as chair, chair-elect, vice-chair, past-chair, management division chair and trustee. Charlie was appointed by AWWA President Mike Leonard to chair the Ad Hoc Committee on Affiliation Agreements. To this position he brought his long experience as a manager and negotiator to balance the interest of AWWA and the sections, and to help forge the future of AWWA.

Charlie is a life member of AWWA and recipient of the George Warren Fuller Award. He has received numerous awards from the Texas Water Utilities Association of which he is a member. He is also a member of the Water Environment Federation, Water Environment Association of Texas, and the American Chemical Society.

Charlie graduated from Texas Wesleyan University with a BA in Chemistry and lives in Arlington Texas with his wife Cindy. He enjoys spending time with his two daughters, their husbands and seven grandchildren



Rick Warner Treasurer (2012 – 2013) Water Environment Federation

Rick Warner, P.E. is the 2012-2013 Treasurer of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Rick spent this past year as a member of the WEF Board of Trustees. In addition, he is a senior engineer for the Washoe County Department of Water Resources. In that role he is responsible for the overall planning, design, and construction for regional drinking water, wastewater, and recycled water projects. He is also active on projects relating to strategic planning and utility consolidation initiatives. Previously at the Department of Water Resources, Rick managed the engineering and planning division. Prior to that, he was a chemist/field technician for the Truckee Meadows Water Reclamation Facility in Reno, Nev. He also served as a water treatment design course lecturer at the University of Nevada Civil Engineering Department.

A WEF member since 1995, Rick has held multiple leadership and committee roles within WEF. He served on the House of Delegates for three years and is a member of the Utility Management Committee and Reuse Committee. He served on the House of Delegates' Steering Committee for two successive years. Also an active member of the Nevada Water Environment Association (NWEA), Rick served two times on the NWEA Board and as president from 2001-2002. His other professional affiliations include the American Society of Civil Engineers and the American Water Works Association.

Rick received the Arthur Sidney Bedell Award for extraordinary service to his member association and was inducted into the Select Society of Sanitary Sludge Shovelers in 2002.

Rick is a registered professional engineer in the state of Nevada. He received a B.S. and an M.S. in Civil Engineering from the University of Nevada (Reno).



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City of Grand Forks Wastewater Treatment Facility

by: The Grand Forks Public Works Department

The City of Grand Forks Wastewater Treatment Facility (GFWWTF) consists of a 10 million gallon per day (MGD) mechanical treatment plant, 1356 acres of facultative/polishing lagoons, and a Certified Environmental Laboratory. Currently, the GFWWTF treats approximately 5 MGD of domestic wastewater and approximately 2 MGD of industrial wastewater. The Grand Forks Wastewater Laboratory performs wastewater compliance testing for both internal (Grand Forks) and external (outside Grand Forks) customers.

The GFWWTF is staffed ten hours per day
Monday through Friday. Staff consists of one manager,
two lead workers-Class IV, one senior serviceworker-Class
III, one lab analyst, and one industrial pre-treatment specialist.
The Wastewater treatment facility is funded through the
Wastewater Enterprise Fund.



Lagoon and Wastewater Treatment Plant

City of Grand Forks Wastewater and Stormwater Collections

Wastewater Collections is responsible for the wastewater collection system



Industrial Park Southwest Pond

comprised of 176 miles of gravity mains, 43 wastewater pump stations, and 53 miles of forcemain that deliver wastewater to the wastewater treatment facility.

Stormwater Collections is responsible for the stormwater collection system comprised of 198 miles of gravity mains and 12 stormwater lift stations that deliver stormwater runoff to the river via several stormwater collection ponds and river outfalls throughout the city.



English Coulee (Largest Pump Station)

In addition, the City Flood Protection Program maintenance responsibilities are carried out by Wastewater and Stormwater Collections personnel. This system is

made up of 12 pump stations and a series of gates, levees and floodwalls. Overall, Wastewater and Stormwater Collections assets include 67 pump stations, 427 miles of underground wastewater lines and force mains. The department is staffed Monday through Friday from 7:30 am to 4:00 pm. Staff consists of one superintendent, seven lead workers - Class IV, three senior serviceworker-Class III, and two serviceworkers. The department maintains a fleet of pickup trucks, sewer jetter/vactor trucks, and miscellaneous equipment. Wastewater and Stormwater Collections are funded through the Wastewater and Stormwater Enterprise Fund respectively.



Belmont Road Sanitary and Flood Stations

City of Grand Forks Water Treatment and Distribution Summary

The Water Utility is made up of three divisions: Treatment, Distribution and Laboratory. Waterworks assets include a 16.5 MGD surface water treatment facility which went into service in 1956, with additional capacity added in 1968 and 1984. A raw water intake was constructed and put on line in 2005. A 7-million-gallon clearwell was constructed and put on line in 2003. In addition, the City's finished water storage includes a 7-million-gallon buried storage reservoir built in 1976 and six, 500,000 gallon overhead towers, ranging in age from 1956 to 2001. Water is supplied through approximately 338 miles of water main, 5000 valves, 2600 hydrants, and 15,000 installed meters. Grand Forks Water Utility also supplies water to the Grand Forks Airport and Grand Forks Air Force Base. Water treatment residuals are pumped to and stored in three residuals lagoons west of the city.



Raw Water Intake Facility

The Water Utility Treatment staff is responsible for the treatment of surface water from the Red and Red Lake



Water Treatment Plant

Rivers. Treatment consists of pretreatment coagulation, lime/soda ash softening, chlorine-chloramine disinfection, filtration and fluoridation. Water produced by the utility meets all state and federal regulatory requirements for safe drinking water. Water Treatment staff consists of a supervisor, seven lead operators-Class IV, one senior operators-Class III, and four operators-Class I or II. The facility is staffed 24/7 and serves as the after-hours point of contact for public works. Operators preform plant maintenance, instrument calibration, pilot study support and process control water testing.

Water Distribution staff maintain the water distribution system, reading meters and monitoring water use throughout the distribution system. Other duties include

leak repair, project monitoring, meter repair and testing, shut-offs, and maintenance of valves and hydrants. Distribution staff consists of a supervisor, three lead serviceworkers-Class IV, two senior serviceworkers-Class III and four serviceworkers-Class I and II. At this time the utility has completed pilot testing on several advanced treatment technologies in preparation for design and construction of a new regional water treatment



Clearwell and Future Site of Water Treatment Center

facility. Treatment technologies piloted to date include ozone, advanced oxidation processes, ozone enhanced biological filtration, granular activated carbon (GAC) contactors, pretreatment Meurer Research Institute (MRI) plate settlers, and both low and high pressure membranes. A final decision on treatment technologies will be made later in 2013. The timeline for completion of this project is anticipated to be 2020.

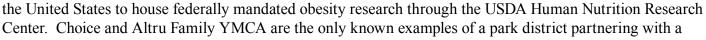
The Environmental Lab has one senior analyst who is responsible for distribution sampling for microbial contaminants, WTP process control checks, and analysis for outside customer groups. The lab is certified for a limited number of drinking water regulatory parameters.

The Water Treatment and Distribution Divisions along with the Environmental Lab are funded through the Waterworks Enterprise Fund.

A Stormwater Feature at Choice Health & Fitness

Choice Health & Fitness began as a dream when several Grand Forks residents dared to IMAGINE building greater health and well-being for their community. Passion and dedication resulted in the largest local grass-roots undertaking to raise dollars to support community health and wellness. Because of this, you may not only imagine but experience Choice Health & Fitness, which opened officially September 2012.

A 169,000-square-foot facility, Choice boasts spaces for all ages and stages. From low impact walks against a water current, to state-of-the-art adaptable fitness equipment, to the beat bopping Kids Zone; Choice truly has it all, and then some! Unique? Absolutely! Choice Health & Fitness is the only facility within



YMCA to provide one seamless health and fitness membership - two fabulous facilities for one low affordable cost.

Smiley the Water Tower



Kayaking with Choice Health & Fitness

Integrating sports, fitness, arts, medical, recreation and research - for all ages and stages of life and fitness; Choice is your one-stop-shop for greater personal and community health and happiness. Featured in the photo is the stormwater detention area that was designed with the facility to collect the site's stormwater runoff. It was incorporated into the facility's plan to offer recreational uses such as canoeing and kayaking.

Municipal Services

- » Wastewater Systems
- » Water Systems
- » Streets and Storm Sewers
- » Wetland Delineation/Mitigation
- » Solid Waste/Landfills
- » Site Grading and Drainage Plans
- » Flood Control
- » Groundwater Studies
- » Airport Improvements





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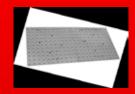
Tree Grating



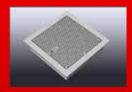
Infra Safe DCD



Truncated Domes



Access Hatches



Sediment Collection Plates





Trench Grating

Fabricaton Products

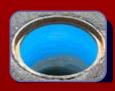
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NEW Stage 2 Disinfectants and Disinfection By-Products Rule (Stage 2 D/DBPR) Summary Form

by Lydia Fewless and Barrett Brown, North Dakota Department of Health, Municipal Facilities

The Drinking Water Program (DWP) would like to announce the release of the new Stage 2 Disinfectants and Disinfection By-Products Rule (Stage 2 D/DBPR) Summary Form. This form has been updated to address regulatory changes and to improve data entry efficiencies for both water systems as well and DWP. The old Stage 1 form should not be used after the July – September 2013 quarter. Water systems are encouraged to report Stage 2 D/DBPR Maximum Residual Disinfectant Level (MRDL) data via the Electronic Reporting Information System (ERIS) or on the new Stage 2 D/DBPR Summary Form for the October – December 2013 quarter.

To coincide with full implementation of the Stage 2 D/DBPR, the DWP is replacing the existing Disinfectants and Disinfection By-Products Rule (DBPR) Summary Form with a new version that has been designed for Stage 2. The original form, SFN 54271, is being replaced with SFN 60320, dated 8-2013. As with the original form, the new form will allow you to report MRDL, Total Trihalomethane (TTHM), Haloacetic Acid (HAA5), and Total Organic Carbon (TOC) data. A major reason to update the form is the change in how TTHM/HAA5 compliance is determined. Stage 1 DBPR used a system-wide running annual average; whereas under Stage 2 D/DBPR, compliance is determined by using a site-specific Locational Running Annual Average (LRAA).

The purpose of this article is to alert public water systems that a new STAGE 2 D/DBPR SUMMARY FORM is available.

Since the form was being modified and the DWP is continuing to look for ways to become more efficient, the DWP felt it prudent to make some additional modifications to the form benefitting both the water systems as well as the DWP. The improvements will allow for easier and faster data entry for the systems and the DWP. The new form is still a fillable pdf (a form that can be filled out using Adobe Acrobat Reader which is free) just like the Stage 1 form; however, the new form has been encoded with a barcode. The advantage of the barcode to the DWP is that, when the form is received, the DWP can scan the barcode and the data will be automatically read and entered into the data system. DWP staff will not have to manually enter the data, and since the data is typed, handwriting will not be an issue. This will allow for more resources to be devoted to technical assistance versus data entry.

It is very important to note that the improvements to the form will only be fully realized if the form is filled out electronically. There will be no benefits for hand-written submissions.

Other highlights of the form are:

- The form automatically calculates quarterly averages for MRDLs and TOC.
- When four quarters of data are entered, the form automatically calculates Running Annual Averages for MRDLs and removal ratios for TOC.
- The form automatically calculates the LRAAs for TTHM and HAA5.
- The form automatically determines if Running Annual Averages for MRDLs, TOC Removal Ratios, and LRAAs for TTHMs and HAA5s are compliant.
- The form automatically calculates the Operation Evaluation Level (OEL) for TTHM and HAA5 per site to determine if an OEL needs to be conducted.

• The form has a button that will quickly prepare the form for entry of the new quarter, preventing the need to re-enter all previous data, potentially a significant time savings for water systems.

As a reminder, there are multiple methods of reporting the DBPR data to the DWP:

- Submit electronically via the Electronic Reporting Information System (ERIS), the most preferred method. ERIS was previously described in the Official Bulletin, Volume 98, October- December 2012 issue available on the North Dakota Department of Health website at http://www.ndhealth.gov/ mf.
- Electronically fill out the new DBPR Summary form, print completed form and submit via postal mail or fax.
- Manually fill out the new DBPR Summary form and submit via postal mail or fax. This is strongly discouraged due to inherent inefficiencies of manual data processing for both the individual entering the data and the DWP staff processing the data.

The new form will be available on the North Dakota Department of Health website at http://www.ndhealth.gov/mf. For questions regarding the use of the form, contact Lydia Fewless at lfewless@nd.gov or 701.328.5221. For questions regarding the use of ERIS, contact Barrett Brown at bjbrown@nd.gov or 701.328.5209.



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City of Grand Forks Sanitation Department

by Grand Forks Public Works Department

Waste management in Grand Forks has seen significant changes over the past fifteen years to provide better service to residents of the community, increase the life of its landfill and

ultimately save consumers money.

The first change was the switch from manual trash collection to an automated pick-up system. In 1999, the City of Grand Forks began supplying residents with 90-gallon trash cans that could be wheeled to the curb or alley – and picked up, emptied and dropped off by a robotic arm on newly fitted sanitation trucks. The new system wasn't automatically embraced by everyone, but over time residents have come to appreciate the benefits offered including less wind-blown trash, quieter equipment operation, and a more uniform look for neighborhoods.

City leaders have also been supportive of recycling programs within the city. Curbside recycling was first brought to Grand Forks in 1990. Residents were given three plastic stackable bins to sort



Trash day in Grand Forks



Participating in curbside recycling program

their recyclables into glass, cans and plastic. Participation has grown steadily over the years, especially when single stream recycling (no sorting) was introduced in 2003. Residents were also given the option to use containers of their choice for recyclable materials, in addition to the 18-gallon plastic crates.

In an effort to continue to improve the current recycling system, a plan to provide new 90-gallon recycling containers – complete with lids – is scheduled to go into effect in late 2013. This new program would give residents larger, wheeled containers to more conveniently dispose of their recyclables. The new 90-gallon recycling container will allow most residents to increase the amount they recycle, reduce the amount they send to the landfill, and keep their monthly utility costs from increasing.

A new regional solid waste landfill was opened in 2009. This landfill provides waste disposal services for many surrounding communities and a revenue source for the City of Grand Forks.

And for 2014, a new Pay-as-You Throw program is being considered. Residents would be billed according to the amount of trash they generate. The more you throw away, the more it would cost you. Hopefully, the plan would encourage residents to do more recycling, protect our environment, and give the current landfill a longer life.

The following is a concise summary of the activities of the Sanitation Division in Grand Forks.

Interdepartmental Coordination/Cooperation

- Education and enforcement of the City's sanitation ordinances, providing for properly contained and separation of yard waste, municipal solid waste, recycling, construction and demolition, and other types of special waste.
- The Sanitation Division works in cooperation with the Public Health Department, the Planning Department, and the Building/Zoning Administrator.

Facilities

- Closed Municipal Soild Waste (MSW) Landfill SW-069, financial assurance and ongoing management
- MSW Landfill SW-0347
- Inert Landfill IT-202
- MSW Baling/Bagging/Transfer and Scale Facility
- Public Works Facility Sanitation Collections Area Residential and Commercial MSW, Special Collections Operations

Waste Reduction/Seasonal Collection Programs/Events

- Bi-Weekly curbside single stream recycling for 12,145 single family and 4,464 multi-family participating residences. Public Works oversees the recycling contract that includes recycling collection, transfer, processing and marketing of single-stream recycling materials.
- Four (4) recycling drop sites.
- Special collections by request and for a fee encourages proper waste separation for diversion and recycling.
- Yard waste curbside collection (May 1 Sept 30)
- Curbside vacuum leaf collection and yard waste (leaf) drop sites (October)
- Curbside brush/branch chipping & collection for a fee
- Three (3) brush/branches drop sites (April 15– November 15)
- Nine (9) yard waste drop sites (April 15 November 15)
- Waste oil, car/truck battery, propane tank drop-site
- Seasonal Christmas tree collection
- Annual electronics recycling event at the Public Works facility the Saturday prior to Clean Up Week, which is scheduled for the first full week of May each year.



Grand Forks residents participate in the annual electronic recycling day

Waste Reduction - Regional Commercial and Residential Self-Haul Options

The City's Landfill Scale, Baling/Bagging Transfer Facility, Inert Landfill, and MSW Landfill are open daily and on Saturday mornings, including a convenience separation/disposal area for household quantities of disposal materials.

Sanitation Collections, Baling, Bagging, Landfill Operations

The Sanitation Division provides for automated side load residential and front load/side load commercial MSW refuse collection for 12,145 single family residences, 9,680 multi-family residential units, and 881 commercial customers. The municipal solid waste is collected, baled, bagged, and placed in the MSW Landfill (Balefill) Permit SW-0347.



Landfill bales in preparation for cover



Off-loading landfill bales

Regulatory Requirements

The North Dakota Department of Health (NDDH) Waste Management Division inspects and provides regulatory oversight for the City's three landfills and the City as a permitted hauler of solid waste under a total of four permits. An annual report is due each year in March for the previous year's activities, including information related to all components of the Sanitation Division's integrated waste management activities. Data includes, but is not limited to, quantities managed, disposal location, waste management planning, permits and inspection reports. To provide comprehensive management perspective, the Sanitation Division employs the use of consultants' services for various major projects as well as for non-routine activities and projects as approved by City Council.

The City provides for routine on-site inspection reports, tracks landfill management activities in a database, and provides data and information for proper management and planning related to financial assurance mechanisms and operational asset management for sustainabilities and fiscal responsibility.

The City provides landfill services for the City of Grand Forks and surrounding region as a result of Subtitle D regulations and the subsequent closure of smaller, municipally owned landfills.

The City Sanitation staff is trained via SWANA Manager of Landfill Operations course for upper management, as well as the required NDDH landfill operator courses to provide certified operators on site. These operators apply their knowledge of regulatory issues, rules, and appropriate operations techniques as approved by, and in conjunction with, the City of Grand Forks and NDDH Waste Management Division policies, rules, and regulations.

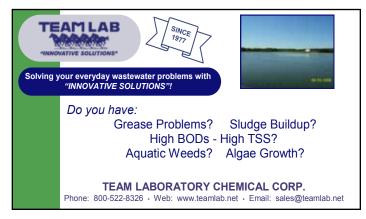
Sanitation Planning - Current and Future Projects

- New Grand Forks Regional Solid Waste Landfill in 2009
- Landfill Gas Utilization and Landfill Bioreactor Development Feasibility Study 2009-2010
- Grand Forks Solid Waste Landfill Final Closure Project 2011-12
- Special/Industrial Waste Disposal Modification SW-0347 2010-11
- Baling Facility Baler and Associated Equipment Replacement Project 2012-13
- Recycling Services Service/Safety Committee
 Task Force Review/Side Load
 Curbside Recycling Collection
 Lindstad Park As You Throw (RAYT) (intellege)
 - Updated Pay-As-You-Throw (PAYT) (implementation 2012-14.)
- Asset Management Pilot Program 2013-14
- Solid Waste Landfill Permit Renewal/Sanitation Cost of Service Study 2013-14
- Sanitation Collections, Baling, Landfill Scale, and Associated Facilities Master Capital Improvement Plan Project(s) 2014-15
- Bio-solids master planning in conjunction with wastewater treatment 2012-15



Grand Forks Public Works

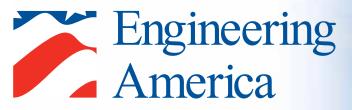








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Do Oil and Water Mix? They Do in the Bakken Fields of North Dakota!

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Tank Type: Aquastore® Glass-Fused-to-Steel

Storage Capacity: 540,000 Gallons Engineer: American Engineering Inc. Contractors: Engineering America

We've all heard it: Oil and water don't mix. Frankly, they do not! But deep in North Dakota oil country they're changing that concept!



While oil and water still physically do not mix well, the NEED for water and water storage in North Dakota's oil country has seen the Aquastore glass-fused-to-steel water storage tank become the premier "mixologist" in the region. A case in point is the city of Tioga, ND, located on top of the Bakken oil shale in northeast North Dakota. The city of Tioga's demand for water soared significantly higher due to increased population and the water needs of the oil industry. Their solution? Aquastore glass-fused-to-steel!

The team of American Engineering Inc. of Williston, ND, and Engineering America provided a fast-tracked project for the city of Tioga in order to fulfill the new higher water demands of the region. Bids were received in late May 2011 and contracts awarded in June 2011 with a project completion date of October 31, 2011. With experienced project management and construction crews, Engineering America completed the 31'x 98', 540,000-gallon Aquastore glass-fused-to-steel standpipe ahead of time and on budget!

O.K., maybe oil and water do not physically mix but, for the cities hovering over the Bakken oil shale faced with overwhelming water demand, the solution is Aquastore glass-fused-to-steel tanks – the highest quality product that NEVER needs to be painted and is delivered in the FASTEST construction time frame!

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Tim Paustian, Past Chair	Fargo

2013 MEETING SCHEDULE

Monday

8:00 a.m. - 4:00 p.m. **Preconference Workshop**

Disaster Management

Grand Forks Public Works Facility

724 N 4th St.

2:00 p.m. - 4:00 p.m. Grand Forks Utility Tours

5:00 p.m. **Preconference Meeting**

North Dakota Section of the American Water Works

Association (NDAWWA)

Oriole Room

Tuesday

7:30 a.m. - 11:30 a.m. Water and Wastewater Operator Certification Examinations

North Dakota Department of Health Ambassador C Room, Canad Inn

7:30 a.m. Officers Meeting

NDAWWA Oriole Room

8:00 a.m. Officers Meeting

North Dakota Chapter of the American Public Works

Association (NDCAPWA)

Robin Room

8:00 a.m. Officers Meeting

North Dakota Water Environment Association (NDWEA)

Morning Dove Room

8:00 a.m. Officers Meeting

North Dakota Chapter of the North American Stormwater and

Erosion Control Association

(NASECA-ND) Pheasant Room

9:00 a.m. - 11:00 a.m. Grand Forks Utility Tours

9:30 a.m. Officers Meeting

Joint Board of Directors of the North Dakota Water and

Pollution Control Conference

(NDWPCC), NDCAPWA, NDWEA, NDAWWA, NASECA-ND

Oriole Room

10:30 a.m. AWWA Committee Meetings

NDAWWA Oriole Room

9:00 a.m. - 11:00 a.m. pH Certification

Finch Room

11:30 a.m. Business Meeting

NDCAPWA Aurora Ballroom 1:30 p.m. - 4:30 p.m. Concurrent Sessions

Bluebird/Finch Rooms

Pheasant Room Hawk Room Mobile Workshop

Wednesday

9:00 a.m. North Dakota Operator Certification Advisory Committee Meeting

Morning Dove Room

12:00 noon Business Meeting

NDAWWA

Aurora Ballroom

1:30 p.m. - 4:30 p.m. Concurrent Sessions

Bluebird/Finch Rooms

Pheasant Room Hawk Room Mobile Workshop

Thursday

7:30 a.m. Annual Public Works Directors and City Engineers Meeting

Morning Dove Room

8:00 a.m. - 11:30 a.m. Concurrent Sessions

Bluebird/Finch Rooms

Pheasant Room Hawk Room

12:00 noon Business Meetings

NDWEA and NDWPCC

Aurora Ballroom

2:00 p.m. - 4:00 p.m. Grand Forks Utility Tours

FUTURE CONFERENCES

2014 - Fargo, October 14, 15, and 16, Holiday Inn

2015 - Bismarck, October 6, 7, and 8, Ramkota Hotel

2016 - Minot, October 11, 12, and 13, Grand International Inn



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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

North Dakota Chapter of the North American Stormwater and Erosion Control Association October 22, 23, and 24, 2013, Alerus Center, Grand Forks, North Dakota (701) 792-1200

COMPLETE AND RETURN TO:

NDWPCC

918 E. Divide Ave., 3rd Floor Bismarck, ND 58501-1947 Phone: 701-328-6622

A.	REGISTRANT INFORMATION (Use only one name per registration) (Please Print or Type)	D.	GUEST REGISTRATION								
	First Name		First Na	me							
	Last Name		Last Nar	me							
	Addr. Line 1		Tues. Lu	ınch	neon (\$17.00)						
	Addr. Line 2		Tues. Bu	uffet	: (\$21.00)						
			Wed. Bu	ıffet	Breakfast (Free)						
	City		Wed. Lu	nch	eon (\$18.00)						
	State Zip		Wed. Ev	enir	ng Banquet (\$35.00)						
	Job Title		Thurs. L	unc	heon (\$19.00)						
	Employer	E.	. WORKSHOPS								
	Work Phone No.		Preconf	ere	nce Workshop						
	Fax Phone No.		Mon. Dis (Lunch I		er Mgmt. (\$25.00) ided)						
	Email		Mobile \	Wor	kshops						
B.	REGISTRATION TYPE	-	Tues. M	lemb	orane Treatment (\$10.00)						
	Reg. Fee		Wed. Pu	ıblic	Works (\$10.00)						
	□ Package* (\$170.00) □ Late Package** (\$190.00)	F.	TOTAL	PA	MENT DUE:						
	☐ Individual (\$60.00) ☐ Student (\$10.00)										
	*Packages include reg. fee, banquet, buffet, and luncheons		Please b								
	**Late Package Registration Deadline October 4, 2013		Pay by o								
					s enclosed CKS PAYABLE TO:						
C.	INDIVIDUAL MEAL FEES (Included in Package Registration)				Pollution Control Confere	nce or NDWPCC					
	Tues. Luncheon (\$17.00)	G	CHECK	A1 1	L THAT APPLY						
	Tues. Buffet (\$21.00)	G. Ye			L IIIAI AFFLI						
	Wed. Buffet Breakfast (Free)]		Do you qualify as a water tr						
	Wed. Luncheon (\$18.00)				distribution operator for a sy or less? This will determine						
	Wed. Evening Banquet (\$35.00)	_	_		reimbursement.						
	Thurs. Luncheon (\$19.00)		3 0	□ Do you plan to participate tournament? If so, indica or handicap The golf course will be cheart fee.		your average score					
					Are you a young profession	al 35 or younger?					
		Г			Do you plan to attend the p	H certification?					

H. GI	Public	Facilities Tours (Please indicate attendance)	I. FOR CONFERENCE USE ONLY
Yes	No		Cash
		Monday 2:00-4:00 p.m.	
		WTP 503 S 4 th St.	Check
		WWTP 3251 N 69 th St.	Charge
		Tuesday 9:00 – 11:00 a.m.	Pay Pal
		WTP 503 S 4 th St.	Date
		WWTP 3251 N 69 th St.	Amount \$
		Thursday 2:00-4:00 p.m.	Invoice #
		WTP 503 S 4 th St.	□ Paid □ Entered □ Conference Database
		WWTP 3251 N 69 th St.	

Electronic registration is available at the Municipal Facilities website at http://www.ndhealth.gov/mf/ndwpcc.html.



AFTERNOON CONCURRENT SESSIONS TUESDAY, OCTOBER 22, 2013

Effects of Biosolids/Soil Mixture at the Challenging Design and Construction Bismarck Flood Protection Planning" Todd Feland, Public Works Director, Bryan Kaemingk, Graduate Student, Darin Brickman, Principal, Burns & "Alternate Project Delivery to Meet David Sethre, Executive Director, North Dakota Chapter, Inc. - ACPA McDonnell Engineering, Co. 'Grand Forks Public Works Welcome: Grand Forks Mayor Michael Brown Moderator: Dustin Scott, Director, NDCAPWA Break, Pre-Function Area Infrastructure Overview" Scott Schneider, Apex Grand Forks Landfill" City of Grand Forks **Engineering Group** NDCAPWA President: Chad Zander Requirements" Session C Adjourn QND TBD 4:00 p.m. Title: 2:00 p.m. Title: 3:30 p.m. Title: 4:30 p.m. Title: 1:30 p.m. Title: Speaker: Speaker: Speaker: Speaker: Speaker: Hawk Room 3:00 p.m. 5:00 p.m. "Continuous Water Quality Monitoring a Joel Galloway, Associate Director, U.S. Dave Clark, Wastewater Market Sector Director, HDR Engineering "Clean, Green Nebraska: Communities Valuable Tool for Water Management Wastewater Treatment Improvement" Sharing Stormwater Knowledge and Allen Grasser, City Engineer, City of J.B. Dixon, Environmental Planner, "Grand Forks Regional Stormwater 'American Crystal Sugar Company Resources for a Common Cause" NDSU, WEF/TEC Design Team 'Water Quality and Wastewater Moderator: Eric Dodds, Past President, NDWEA Break, Pre-Function Area Felsburg, Holt & Ullevig Geological Survey Session B Drives/Issues" **Development**" **Grand Forks** Adjoum Pheasant Room Speakers: 4:30 p.m. Title: Speaker: 4:00 p.m. Title: 1:30 p.m. Title: Speaker: Speaker: 2:00 p.m. Title: 3:30 p.m. Title: Speaker: 5:00 p.m. 3:00 p.m. Gabriel Aher, Arjun Thapa, Berdakh Utemuratov, and Wei Lin, NDSU Civil Stephen C. Roberts, President, Blue Dan Zienty, Senior Design Leader, SEH and Joe Cesarek, SEH "GFWTP Pretreatment/Membrane Aurora Ballroom NDWPCC/Student/YP Reception Technology Reduces Total Cost" 'Challenges in Water Supply and "Industrial Coatings in Water and Wastewater Applications" Matt Erickson, Graduate Student 1:30 p.m. - 5:00 p.m. Membrane Mobile Workshop Wastewater Management in 'Recarbonation: Innovative Break, Pre-Function Area uncheon and Business Meeting, NDCAPWA YP Poster Competition Civil/Engineering, UND Developing Countries" Session A President: Chad Zander, Presiding Moderator: Dan Steppan, EERC Engineering Pilot Study" In Green Adjourn Blue Bird and Finch Rooms TBD Speakers: Speakers: Aurora Ballroom 6:30 - 8:30 p.m. Guest Speaker: 2:00 p.m. Title: 1:30 p.m. Title: 3:30 p.m. Title: 4:00 p.m. Title: Speaker: 4:30 p.m. Title: Speaker: Speaker 11:30 a.m. 3:00 p.m. 5:00 p.m.

WEDNESDAY, OCTOBER 23, 2013 AFTERNOON CONCURRENT SESSIONS

'El Zagal Sanitary and Storm Sewer Luncheon and Business Meeting, NDAWWA "Advanced Planning Techniques" Kevin Martin, Principal, Houston Engineering and Roger Austin, VP/Marketing, MWH "Stormwater Panel Discussion" Fim Paustian, Associate, Apex Guest Speaker: Charles Anderson, Past Break, Pre-Function Area Moderator: Walt Smith, Director, NDCAPWA **Engineering Group** mprovements" Chair: Eric Volk, Presiding Session C Adjourn President, AWWA TBD Aurora Ballroom Speakers: Speakers: 1:30 p.m. Title: Speaker: 2:30 p.m. Title: 3:30 p.m. Title: Hawk Room 3:00 p.m. 4:30 p.m. 11:45 "Making the Fargo Effluent Reuse Facility Jeff Hoff, Wastewater Treatment Plant Operator, City of Fargo, and Wei Lin, **NDSU Civil Engineering Department** "Western North Dakota Wastewater Karl Rockeman, NDPDES Program Moderator: Karla Olson, Past President, NDWEA Break, Pre-Function Area "Industrial Pretreatment" Disposal Monitoring" Panel Discussion Manager, NDDH Session B Adjoum "Lu Pheasant Room Speakers: Speakers: 3:30 p.m. Title: 1:30 p.m. Title: 2:30 p.m. Title: Speaker: 4:30 p.m. 3:00 p.m. "Evolution of the Grand Forks Water 1:30 p.m. - 5;00 p.m. Public Works/Greenway and Flood Dan Korinek, Principal, Burns and Alan Kemmet, Project Engineer, Houston Engineering, Inc. Construction of a Water Supply McDonnell Engineering, Group Phased Retrofit of an On-Line Moderator: John "Fred" Goetz, City of Grand Forks Social Hour: Aurora Ballroom "Managing the Design and nvocation: Meredith Quinn Entertainment: Dixie Cups Banquet: Aurora Ballroom Break, Pre-Function Area Water Treatment Plant" Master of Ceremonies: 7:30 - 11:30 a.m. Tabletop Display Program, Grant Slick, AE₂S Freatment Plant" 8:00 a.m. - 10:00 a.m. Free Breakfast Session A Project" Adjourn Protection Mobile Workshop Bluebird and Finch Rooms Aurora Ballroom Aurora Ballroom 1:30 p.m. Title: 2:30 p.m. Title: Speaker: 3:30 p.m. Title: Speaker: Speaker: 4:30 p.m. 6:30 p.m. 3:00 p.m. 5:30 p.m.

THURSDAY, OCTOBER 24, 2013 MORNING CONCURRENT SESSIONS

Se Bluebird and Finch Rooms Moderator: Meredith Quinr	Session A Bluebird and Finch Rooms Moderator: Meredith Quinn, Trustee NDAWWA	Session B Pheasant Room Moderator: Wei Lin, President, NDWEA	Session B President, NDWEA	Hawk Room Moderator: David I NDAWWA	Session C Hawk Room Moderator: David Bruschwein, Secretary - Treasurer, NDAWWA
8:00 a.m. Title:	"GIS & Asset Management"	8:00 a.m. Title:	"Water Reuse Panel Discussion"	8:00 a.m. Title :	"Dickinson Master Plan - Designing for Flexibility"
Speaker:	Adam Jonasson, GIS Coordinator, City of Grand Forks	Speakers:	TBD	Speaker:	John Wirries, Civil Engineer, KLJ
9:00 a.m. Title:	"West Fargo Stormwater Improvement"	9:00 a.m. Title:	"Wipes in the Pipes: Non-dispersables in Wastewater"	9:00 a.m. Title:	"NDDOT's EPA Inspection Consent Agreement"
Speaker:	Dustin Scott, Moore Engineering	Speaker:	Tracy Ekola, Regional Leader, SEH	Speaker:	Matt Sperry, Stormwater Coordinator, NDDOT
9:30 a.m. Title:	"Electronic Operator Log Book"	9:30 a.m. Title:	"Biotechnical Replacement Options for Rock Rip Rap and Other Hard Armor Systems"	9:30 a.m. Title:	"Washington Street Master Lift Station-Bismarck"
Speakers:	Hazel Sletten, Superintendent Water Utility, City of Grand Forks, and John "Fred" Goetz Operations Supervisor, City of Grand Forks	Speaker:	David Keaffaber, Midwest Region Manager, Landmark Earth Solutions	Speaker	Mike Berg, Vice President, Apex Engineering Group
10:00 a.m.	Break, Pre-Function Area	10:00 a.m.	Break, Pre-Function Area	10:00 a.m.	Break, Pre-Function Area
10:30 a.m. Title:	"EERC Bakken-related Research Activities"	10:30 a.m. Title:	"Impact of Oilfield on Wastewater"	10:30 a.m. Title:	"Reclaimed Water Supply Assessment for Jamestown's Wastewater Treatment Facility"
Speaker:	John Harju, Associate Director, EERC	Speaker:	Scott Schaefer, AE ₂ S	Speakers:	Apex Engineering Group
11:00 a.m. Title:	"Bismarck WTP Horizontal Collector Well"	11:00 a.m. Title:	"Municipal Stormwater Funding"	11:00 a.m. Title:	"Asset Management"
Speaker:	Russ Sorenson, AE ₂ S	Speaker:	Colleen Peterson, Stormwater Coordinator, City of Bismarck	Speaker:	Jarred Heller, Assistant Operations Manager, AE ₂ S
11:30 a.m.	Adjourn	11:30 a.m.	Adjourn	11:30 a.m.	Adjourn
12:00 p.m.	Joint Luncheon and Business Meetings, NDWEA NDWEA President: Wei Lin, and NDWPCC Pres Guest Speaker: Rick Warner, Treasurer, WEF	ys, NDWEA and NDWPCC NPCC President: Bill Gefro rer, WEF	and NDWPCC ident: Bill Gefroh ,Presiding		

City of Grand Forks Flood Protection

by Grand Forks Public Works Department

The City of Grand Forks has a flood protection and Greenway system that includes 12 flood pump stations, five stormwater detention ponds, eight miles of levees and floodwalls, seven closure structures, 9.5 miles of English Coulee Diversion Channel, 200 acres of grass to mow, miles of new trails, two pedestrian bridges, parking lots and miscellaneous sidewalks, two boat ramps, trailhead facilities, trail and roadway signs, trash receptacles, benches, 20



Biking along the Greenway

as a separate item in the utility bill. For several years the, City of Grand Forks has charged a fee for storm sewer service, but it also now charges the flood protection/ greenway operation and maintenance (O/M) expenses as utility fee charges. The storm sewer and flood protection/ greenway O/M expenses are listed separately on the bill to account for the expense allocation of the two separate services.

The flood protection/greenway O/M expenses are for the flood protection levee and floodwalls, flood pumping stations, English Coulee Diversion Channel and associated pump station, closure and drainage structures,

and greenway amenities. Previously, a significant portion of the

acres of riparian riverbank, vegetation (tree and weed) management, rip rap areas, kiosks, flower beds and plantings along the trails, floodwalls, and near-flood pump stations.

The Greenway has been operated and managed with assistance from various city departments including the Public Works Department- Street Division, Wastewater/ Stormwater Division, Sanitation Division, as well as by the Office of Urban Development, Engineering Department, Police Department, Fire Department, and the Grand Forks Park District.

On December 19, 2005, the Grand Forks City Council passed a new ordinance regarding storm sewer and flood protection/greenway service charges. These fees are included



Enjoying the Greenway in winter

local

share of the flood protection/greenway project, including O/M, was paid for through the special assessment process.

The estimated annual cost to maintain the flood protection/greenway project is \$634,995. The fees are as follows:

Stormwater standard rates (2013 = 7% increase)

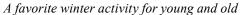
Base fee residential, per month: Stormwater \$2.43 Flood protection project/Greenway \$1.39 Base fee nonresidential: Stormwater (per runoff unit) \$1.06 Stormwater minimum charge (per month) \$2.43 Flood protection/Greenway(per 1,000 sq. ft.) \$0.13 Flood protection/Greenway minimum charge (per month) \$1.39



A view of Grand Fork's flood protection

Funds raised from the flood protection/greenway service charges are used for the administration, mowing, trail maintenance, signage, boat ramp maintenance, snow removal, tree maintenance, repairs and replacement of recreational features, trash removal, minor debris clean up, parking lot and street maintenance, and other expenses associated with the operation and management of the greenway.







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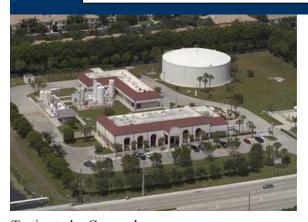


Hosted by the City of Grand Forks. In conjunction with the Department of Homeland Security and Texas Engineering Extension Service, Texas A&M University System.

You are Invited to Attend

Strategic Overview of Disaster Management for Water & Wastewater-MGT342

October 21, 2013



Topics to be Covered

Effects of a natural disaster to a water or wastewater system

- Identify potential terrorism/WMD threats to water and wastewater facilities and systems
- Analyze measures to reduce vulnerability of drinking water and wastewater systems
- Determine appropriate response measures to an actual or threatened incident
- Sequence procedures required for recovery from an incident

Date and Time: 10-21-2013, 8 am to 4 pm Location: 724 North 47th Street, Grand ForksPhone: 701-787-9131/ FAX: 701-787-9133

Email: dtucker@grandforksgov.com

Toolbox to identify steps in the response and recovery You should attend if you are involved with:

• Directors/Departments Heads

The Strategic Overview of Disaster Management for Water and Wastewater brings together those personnel from within a jurisdiction who would be required to manage or react to any natural or man-made incident that could potentially affect a water or wastewater utility. This course introduces the various natural and man-made hazards to which water and wastewater systems may be vulnerable and the potential effects the hazards may induce. Participants are guided through portions of the Environmental Protection Agency's Response Protocol

- City/County Elected Officials, City Managers
- City/County Emergency Managers
- Senior Emergency Response Personnel
- Water and Wastewater Utility Board Members
- Water and Wastewater Utility Workers
- Senior Regulatory Officials.

Contact Information

Don Tucker PO Box 5200 Grand Forks, ND 58206



Mail Completed Registration Form to Contact liste	d above (Due by October 10, 2013)
1	,
Name:	
Ivanic.	
Department/Agency:	
Address:	
11001055.	
Phone #:	
Email:	
Seating is limited. Please register early.	Registration Fee is \$25 which includes lunch and beverages



By: Grand Forks Public Works Department

"Every cloud has a silver lining." That's a proverb used during difficult times. There was a time in the recent history of the Greater Grand Forks Community that would test the accuracy of this proverb.

The winter of 1996–97 dealt many hard blows to the Red River Valley, and especially the communities of Grand Forks, N.D. and East Grand Forks, Minn. Eight blizzards, brutally cold weather, and twice the average snowfall took its toll on the communities. A final ice storm in early April followed by warm weather created ideal conditions for disaster. Residents and volunteers fought the rising rivers with sandbags, shovels, and courage only to learn this would not be enough to stop the rising floodwaters. A record-breaking flood crest invaded nearly all of the land area of both cities and forced most residents to evacuate, leaving behind their homes, businesses, and community.



Cleaning up after a blizzard in the winter of 1996-97

The floodwaters receded, and the cleanup began immediately. Residents and city leaders focused on the crucial elements of flood recovery and prevention. Plans for a permanent flood protection system began to take shape in the coming months and years. The opportunity to create a recreational area within the floodplain was realized early in the design phase of the project. The North Dakota Congressional Delegation proposed the Greenway concept as a key element in economic and recreational development for the region. Their efforts

would eventually take shape in the development of a greenway along the Red and Red Lake Rivers in the heart of Greater Grand Forks.



1997 Grand Forks flooding

The Greenway is a crucial piece of the flood protection project that also Aftermath of the 1997 flood enhances the quality of life for residents of the Greater Grand Forks area. This 2,200-acre area features several parks, a campground, two golf courses, three disc golf courses, more than 20 miles of multipurpose trails and shore bank fishing sites. The Greenway provides a unique opportunity for year-round outdoor recreation activities in an urban setting. The banks of the Red and Red Lake Rivers were once under-utilized resources that now serve as a

center of outdoor recreation in the heart of the city.

The flood of 1997 had a lasting effect on the community of Greater Grand Forks. The Greenway of Greater Grand Forks is proof that it is possible to turn something negative into something positive.



The Greenway hosting an event



A view of Grand Fork's Greenway

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LJA has been engineering water solutions for 60 years, helping communities across the region with domestic, industrial, storm water, waste water, and sewer needs. LJA's civil engineers and financial advisor take pride in assisting towns of all sizes with improvements to their utility infrastructure and procuring necessary funding to get the job done. As the City Engineer of several communities, LJA has completed multiple water projects within each town. Listed are municipal services LJA is currently able to provide:

- Water Treatment Plants
- Sanitary Sewer & Water Improvements/Rehabilitation
- Treatment Ponds/Lagoons
- Wastewater Treatment Facilities
- Sanitary Sewer/Storm Water Lift Stations
- Retention/Detention Ponds
- Government Funding Program Assistance
- CWSRF/DWSRF Funding Program Assistance

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REFERENCE GUIDE TO EXHIBITORS IN THE TABLETOP DISPLAY PROGRAM

OCTOBER 23, 2013 7:30 a.m. to 11:30 a.m.

North Dakota Section of the American Water Works Association Water Taste Contest North Dakota Section of the American Water Works Association Water for People North Dakota Water Environment Association

North Dakota Chapter of the American Public Works Association

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darrell.hournbuckle@interstateeng.com Since 1976, Interstate Engineering, Inc. has provided consulting engineering, land surveying, and planning services to municipal, county, state, and tribal governments in addition to private individuals and corporations. As a regional corporation, Interstate Engineering is owned under an Employee Stock Ownership Plan. This instills a sense of ownership and pride in our staff and is reflected in the quality of the services we provide. Jamestown, North Dakota is home to Interstate Engineering's corporate office. Additional offices are located in Wahpeton, Beulah, and Mandan, N.D.; Fergus Falls, Minn.; Billings and Sidney, Mont.; and Pierre and Spearfish, S.D. Interstate Engineering – professionals you need, people you trust.

 Ferguson Waterworks
 Scott Schmidt

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 Fargo, ND 58102
 FAX 701-232-8129

karen.olson@ferguson.com

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AE₂S is a specialized civil/environmental consulting engineering firm that provides professional services and our unique brand of extreme client service to clients in the Upper Midwest. AE₂S specializes in water, wastewater, water resources, rural water, civil engineering, geomatics, structural engineering, electrical engineering, instrumentation and controls, and financial services. AE₂S has offices located in Bismarck, Dickinson, Fargo, Grand Forks, Minot, Watford City, and Williston, N.D.; Eagan, Maple Grove, and Moorhead, Minn.; and Great Falls and Kalispell, Mont. For more information, visit www.ae2s.com or AE₂S Facebook.

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Utilities face a host of challenges, from capital expansion and aging infrastructure to ever changing regulations. Financial issues typically go hand-in-hand with these challenges. Since 1999, AE₂S has established itself as a regional resource for utility enterprise financial consultation beyond our reputation as strong drinking water, wastewater, and stormwater specialists. Our Financial Group is comprised of individuals dedicated to fully understanding issues such as State and Federal funding programs, project financing (bonding), utility financial health (revenue adequacy, cost of service, etc.), and asset management.

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 FAX 320-222-6820

 mikeo@prinsco.com

Badger Meter, Inc.

Jim Plahn
4545 W Brown Deer Rd

Milwaukee, WI 53223

FAX 414-371-5956

jplahn@badgermeter.com

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Fisher, Harris & Associates is a manufacturers' representative company for the Midwest Region. They represent companies such as EBAA Iron, Smith-Blair, Eco Verde, Team Industrial Valve Insertion, Adaptor Inc., Old Castle Precast, Vent-O-Mat, RF Valves, Noreva Valves, and Drainage & Water Solutions (DWS). We also represent Engineered Fluid, Inc., which specializes in prefabricated water treatment and pump stations.

Moore Engineering, Inc.Mike Foertsch925 10th Ave E701-282-4692West Fargo, ND 58078FAX 701-282-4530

mfoertsch@mooreengineeringinc.com Moore Engineering is a consulting engineering and land surveying company which for 50 years has provided municipal engineering, water resource engineering, transportation engineering, airport design and surveying services to more than 80 cities and water resource districts. Services include storm water retention and collection; water treatment, storage and distribution; wastewater treatment and collection; street and highway design; rural and urban flood control; flood plain modeling; hydraulic and hydrologic analysis; dams; airport design; land surveying and GIS services. Moore Engineering is 100 percent employee owned (ESOP) with offices in West Fargo and Minot, North Dakota, and Fergus Falls and Wadena, Minnesota.

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ND Rural Water Systems Association Eric Volk
2718 Gateway Ave #201 701-258-9249
Bismarck, ND 58503 FAX 701-258-5002
ericvolk@ndrw.org

North Dakota Rural Water Systems Association (NDRWSA) is a nonprofit trade association formed in 1974. NDRWSA exists to enhance the quality of life in small communities by providing training, technical assistance, and representation to public water and wastewater utilities while maintaining environmental integrity. We have six field personnel that provide assistance with leak detection, curbstop and valve location, poly-pigging (water & sewer), sewer smoke testing, sewer camera work, operator certification preparation, and much more. The staff at NDRWSA is ready, willing, and able to help 24 hours a day, seven days a week, 365 days a year.

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Apex Engineering GroupTom Welle4733 Amber Valley Parkway S701-373-7980Fargo, ND 58104FAX 701-373-7981

tom.welle@apexenggrooup.com

Apex Engineering Group was founded in 2010 by an entrepreneurial group of engineers and technicians with a long history in the engineering consulting business. The owners and employees of Apex share a common vision of what it takes to build a successful engineering firm - exceptional client service, quality work, integrity, experience, expertise and a drive for success. Our team has extensive experience in the industry and this region. Our leaders are professionals with proven track records of producing successful projects, many long-term clients and are considered experts in their respective fields. At Apex we have put a ban on bureaucracy. We have stripped away anything and everything that stands in the way of what matters: serving our clients. Apex's business focus is water, transportation, municipal, and electrical engineering services. We have offices located in Fargo and Bismarck, North Dakota and Detroit Lakes, Minnesota.



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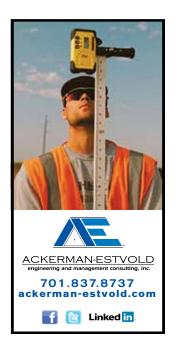
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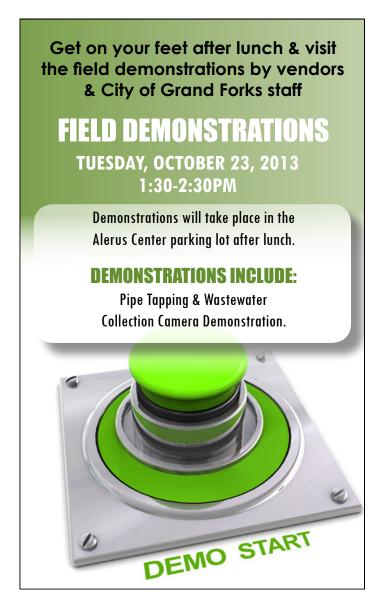
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NDWPCC JOINT BOARD MEETING MINUTES

May 14, 2013, Mandan, North Dakota

A meeting of the Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC); North Dakota Water Environment Association (NDWEA); North Dakota Chapter of the American Public Works Association (NDCAPWA); North Dakota Section of the American Water Works Association (NDAWWA); and North Dakota Chapter of the North American Stormwater and Erosion Control Association (NASECA-ND) was held on May 14, 2013, in the Cutty Sark Room of the Seven Seas Inn, Mandan, N.D. The following board members and guests were present: Chuck Abel, Lisa Ansley, Mike Berg, Terry Boehm, Mike Brisben, Justin Feld, Joe Ferguson, Bill Gefroh, Shawn Heinle, Jeff Heintz, Jeff Hruby, Nancy Huether, Dan Jonasson, Murthy Kasi, Wei Lin, Lance Meyer, Wayne Offerdahl, Tim Paustian, Colleen Peterson, Mark Peterson, Jeff Reiser, Karl Rockeman, Terry Rust, Dean Sletten, Hazel Sletten, Jason Sorenson, Larry Thelen, Eric Volk, Jessica Wagner, and Chad Zander.

The meeting was called to order at 10:35 a.m. by NDWPCC President Bill Gefroh. Copies of the meeting agenda and NDWPCC January 1-April 30, 2013 financial report were provided.

President Gefroh called for a motion to dispense with the reading of the minutes from the January 15, 2013 joint board meeting and approve the minutes mailed to each board member. Terry Rust so moved, Dean Sletten seconded, and the motion carried.

Next, President Gefroh called for the Treasurer's financial report. Mike Brisben reported that the NDWPCC had a net loss of \$21,952.44 from January 1 - April 30, 2013 and total assets as of April 30, 2013 of \$97,241.52. Lisa Ansley asked Mr. Brisben the reason for the net loss. Mr. Brisben stated that payment for operator expense reimbursement and stormwater training accounted for the majority of the deficit. Jeff Heintz questioned the negative \$320.00 from accounts receivable. Mr. Brisben noted that he would check into the reason for the negative and notify Mr. Heintz by email. President Gefroh asked if there was any further discussion. Hearing none, President Gefroh called a motion to accept the Treasurer's report. Dan Jonasson so moved, Wei Lin seconded, and the motion carried.

President Gefroh proceeded to old business and asked that the joint boards send their lists of topics and presenters to Mr. Brisben by June 1, 2013. Terry Rust asked if NASECA-ND would be providing topics. Colleen Peterson and Mr. Brisben indicated that stormwater topics would be included in the wastewater and public works tracks in 2013. Eric Volk noted that NDAWWA addressed topics during its earlier meeting, and President Gefroh indicated that NDWEA would also provide a final list by June 1.

Next, President Gefroh asked for an update on the Grand Forks conference format. Hazel Sletten reported that an offsite preconference disaster management session is planned for Monday, October 21, 2013 as part of Grand Forks' contribution. Facility tours Monday afternoon and Tuesday morning would also be offered. An early bird welcome for those arriving Monday is being considered. The student/young professional social/university forum and poster competition will be held in conjunction with the Tuesday evening buffet. There will be three concurrent sessions along with the mobile workshops throughout the conference. Mobile workshops will be limited to (30) people, and a \$10-15 fee will be required to reserve a seat. Mobile workshops may include water and wastewater regional systems, making hockey ice, Greenway/Flood Protection, stormwater ponds, and Grafton/Grand Forks landfill/Blaer/the Grand Forks Air Force Base. Joe Ferguson noted that the shuttle costs would be \$385.00 for in-town tours and \$475.00 for out-of-town. Wednesday morning will be dedicated to the exhibitor program, and vendor demonstrations may be available outside Wednesday afternoon. The golf tournament will be at King's Walk with green and cart fees being \$30.00 for nine or 18 holes. Post-conference tours of Grand Forks facilities, the airbase, and the UND Aerospace center may be an option Thursday afternoon. Other discussion concerning the preconference workshop covered a registration fee and presenter costs.

President Gefroh called for a report from the stormwater committee. Larry Thelen reported that the committee met twice, discussing three topics: NDWPCC bylaw changes, NASECA-ND conference and training shares, and NASECA-ND conference involvement.

Mr. Thelen noted that a draft of changes to the bylaws had been completed and would be mailed to the membership should the NDWPCC executive committee decide to do so.

Mr. Brisben read the articles and sections of the NDWPCC constitution and bylaws where stormwater and stormwater systems will be added. Mr. Thelen also noted that amendments to the constitution and bylaws may be proposed by the executive committee or by petition to the committee by 10 or more active members. Upon instructions by the executive committee, the secretary shall mail notices and the text of the proposed changes to each member at least (30) days before being voted on at the annual meeting. Dean Sletten motioned to make the proposed changes, Joe Ferguson seconded, and the motion carried. Discussion continued regarding NASECA-ND conference and training shares with Mr. Thelen noting that the committee recommends a \$5.00 fee for conference involvement but no fee for the water and wastewater operator certification program. Mr. Brisben suggested that NASECA-ND work with the stormwater training program if additional revenue is needed. President Gefroh asked if there was consensus from the joint

boards. Larry Thelen motioned to add \$5.00 to the conference registration for the NASECA-ND share, Eric Volk seconded, and the motion carried. Next, President Gefroh asked what NASECA-ND's involvement would entail. Ms. Peterson again indicated that no separate program would be needed for the 2013 conference.

Next, President Gefroh called for an update on NDWPCC state and federal tax liability. Mr. Brisben stated that Brady Martz had been contacted and that any expenditures to reduce tax liability had to be directly related to the *Official Bulletin* (OB). Mr. Brisben noted that since voting to increase advertising fees in 2008, NDWPCC tax liability was high only in 2010. President Gefroh asked if new software or a dedicated computer could be purchased. Mr. Brisben indicated that two InDesign updates were purchased and the health department allowed the OB editors to use their office computers. Mr. Thelen and Mr. Rust felt that the tax liability was reasonable and that a change was not necessary.

President Gefroh called for any other old business. Hearing none, a report on the April 8, 2013 local arrangements and convention center meeting was called for. Mr. Brisben stated that 140 rooms at \$91.00 plus tax had been reserved at the Canad Inn and that an additional 165 rooms were reserved nearby.

Ms. Sletten noted that a new Staybridge Inn directly across from the Alerus Center had opened and that there were several other new hotels south of the Alerus Center and close to Columbia Mall. Ms. Sletten also noted that Grand Forks Convention and Visitors Bureau was working on shuttle service between the hotels and the convention site. Mr. Brisben stated that the Alerus Center had ample space for the three concurrent sessions and that up to 110 booths could be set up in the convention center. Ms. Sletten indicated that feedback from the vendors contacted was positive. The elimination of the facility tours on Wednesday morning during the vendor program and the possibility of outside demonstrations in the afternoon were also well received. Mr. Brisben noted that vendor, sponsor, and presenter packages would go out in early June.

Next, President Gefroh called for a report on the spring water and wastewater training sessions. Mr. Brisben reported that a total of 314 attended despite the April 15-17 cancellation. A total of 250 exams were written with a 78 percent passage rate.

Mr. Brisben reported that tentative dates for the 2019 conference for the weeks of October 7-10 and October 14-17 are reserved at the Minot Holiday Inn, Minot International Inn, and the Fargo Ramada Plaza Suites. Dates available at the Alerus Center/Canad Inn are October 14-17 and October 21-25. Tentative dates in Bismarck at the Ramkota Hotel are October 28-31, 2019. Ms. Sletten asked if a decision on the Grand Forks 2018 proposal had been made. Mr. Brisben indicated that a decision on whether Grand Forks would be added as a fourth city in the conference rotation would be made after the 2013 meeting.

President Gefroh called for any other new business. Mr. Thelen informed the joint boards that the previous OB editors were leaving the department and introduced Justin Feld as the new editor. President Gefroh called for any other new business.

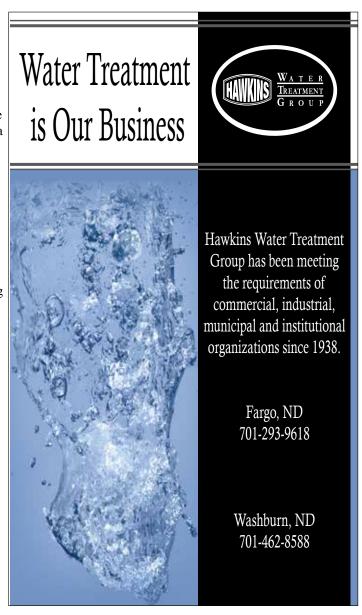
Hearing none, President Gefroh called for a motion to close the meeting. Dean Sletten so moved, Terry Rust seconded, and the motion carried.

The meeting adjourned at 11:37 a.m. NDWEA can be thanked for the refreshments and noon luncheon.

Respectfully submitted,

Mike Brisben Secretary/Treasurer

MB:pc









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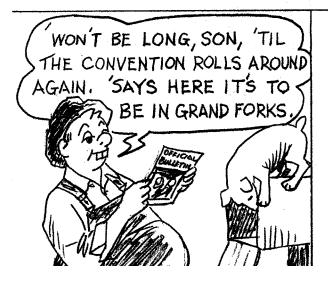
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NDWPCC Proposes Changes to Constitution and Bylaws

The Executive Committee of the 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 Thursday, October 24, 2013 at 12 noon in the Alerus Center, Grand Forks, N.D.

The proposed changes are to recognize the North American Stormwater and Erosion Control Association – North Dakota Chapter as a member of the Conference and the storm water systems that make up the North Dakota Chapter. 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 Conference Secretary, Mike Brisben at 701.328.6622; mbrisben@nd.gov.

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 and stormwater 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 efficient operation of water supply, wastewater treatment facilities and stormwater systems.

Section 5. Specific. The promotion of water, and wastewater and stormwater 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, 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 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 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 Directors 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 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 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.

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 and stormwater 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 or stormwater 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 stormwater 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 requirements may be waived 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 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 the first day of the Conference 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 on the first day of January and terminate as of the close of business on the last day of December.

ARTICLE V. ANNUAL MEETING

- Section 1. The annual meeting of the Conference shall be held at a place determined by the Executive Committee at an official session.
 - 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. 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 Conference, 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.

ARTICLE VIII. AMENDMENTS

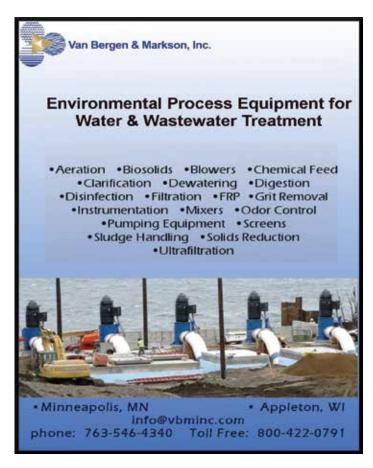
Section 1. Amendments to these Bylaws may be proposed by the Executive Committee or by petition to the Committee by ten (10) or more Active Members. Upon instructions by the Executive Committee, the Secretary shall mail notices and the text of the proposed amendments to each member of the Conference 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.

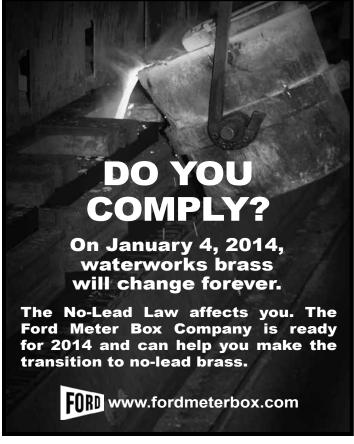
We, the undersigned, verify that this is an exact and true copy of the North Dakota Water and Pollution Control Conference's Constitution and Bylaws.

Dated this

day of

, 20 ____





An Investigation into Bromate Formation in the Ozone Disinfection Process

Author: Leslee Storlee

Historically, the primary additive used to disinfect drinking water has been chlorine. Recently, however, the use of ozone as a disinfection agent has become popular due to its reactive disinfection properties and subsequent reduction of chlorine disinfection byproducts. Due to ozone's high oxidation potential, it has the ability to not only disinfect drinking water but also remove inorganic and natural organic substances making it an option for disinfection as well as taste and odor control. The Moorhead Water Treatment Plant (WTP) in Moorhead, Minnesota uses ozone in the disinfection process to remove taste and odor compounds from the Red River of the North as well as meet primary disinfection requirements.

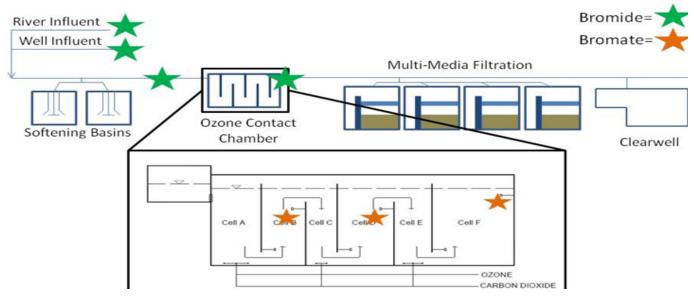
Unfortunately, ozone has the potential of oxidizing bromide, which is found naturally in many water sources, to bromate. Bromate has been classified as a possible carcinogen by the EPA and has been given a maximum contaminant level (MCL) of 10 parts per billion(ppb). Knowledge about bromate formation in water treatment plants is limited as many municipalities do not have the capability to test for bromate at low concentrations. Also, most published studies were conducted using bench or pilot scale systems with pH values of 6-8. However, the Moorhead WTP is a 10 million gallons per day (MGD) facility with a pH (during disinfection) of 9-11 providing for a unique perspective on bromate formation. To better understand bromate formation in full-scale water treatment systems, a comprehensive study was carried out at the Moorhead WTP in 2012. Bromide concentrations in all source waters, both groundwater and surface water, were monitored and determined that the groundwater sources contained more bromide than the surface water source. Water samples from different locations in the ozone chambers were collected and analyzed for bromate and other water quality characteristics. Bromate concentrations were found throughout the ozone chamber and proved to be a valid concern for the facility. Bromate formation was found to be affected by both influent bromide concentrations and operational conditions at the treatment plant. Results indicate that bromate formation was increased by increases in pH, bromide, and ozone dose during times of high temperatures and was decreased by increases in organics. The impact of the bromate influential parameters was minimized at low temperatures. It was also observed that better operational controls need to be developed to minimize bromate formation at the Moorhead WTP.

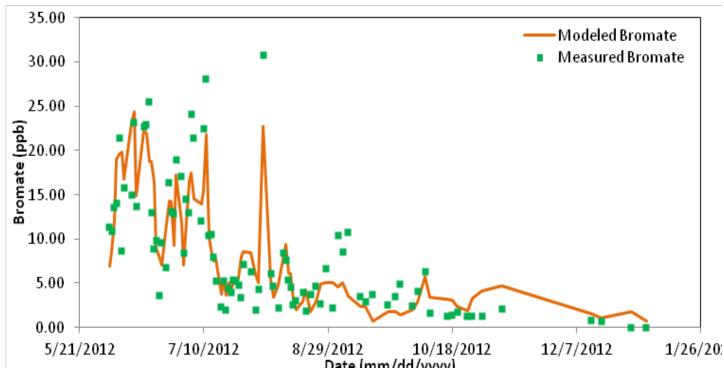
To assist the facility on developing bromate control strategies, a modeling approach was adopted to predict bromate formation at various operational conditions using temperature, pH, ozone dose, bromide, and TOC. The simplicity of the model will allow it to be implemented into the Moorhead WTP SCADA system to provide for "real-time" prediction of bromate formation and allow the treatment facility to minimize bromate formation.



Above: participants in the posters display left to right: Lessle Storlee, Michael Quamme, Ruchi Joshil and Mentor Meredith Quinn











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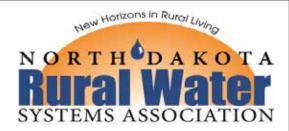
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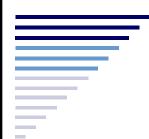
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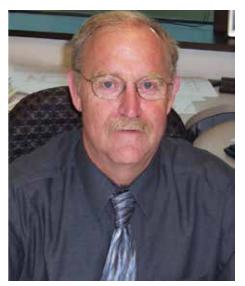
Change of Leadership for the North Dakota Department of Health's Drinking Water Program

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

Larry Thelen retired from the Department of Health on August 2, 2013, after 22 years of distinguished service. Larry's principal work focus was management of the Department's Drinking Water Program.

Larry made many noteworthy contributions during his 22 years with the Department. Among other things, Larry:

- Managed the Drinking Water Program for 15 years. During this time period, Larry successfully prepared for and implemented numerous changes necessary to address the extensive and far-reaching new requirements imposed by the 1996 Safe Drinking Water Act Amendments. Despite this and other significant challenges, North Dakota's Drinking Water Program under Larry's direction has been recognized regionally and nationally for its success in maintaining high SDWA compliance and data quality.
- Oversaw the activities of the Environmental Training Center for eight years.
- Oversaw the Operator Expense Reimbursement Program.
- Has been an active and key member of several water industry organizations including the North Dakota Water and Pollution Control Conference, North Dakota Rural Water Systems Association, Association of State Drinking Water Administrators (ASDWA), and the North Dakota Section of the American Water Works Association (NDAWWA). Larry was a member of ASDWA for 15 years and served on its Board of Directors for two years. With respect to the NDAWWA, Larry served as the sole or assistant Secretary/Treasurer for 16 years, has been a member of the Surface Water Treatment Workshop Committee for nine years, and is currently a Section Director and member of the Water Utility Council.



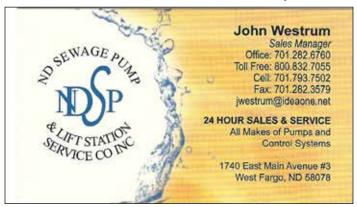
Former Drinking Water Director Larry Thelen

In 1986, Larry received an Operator of the Year Award from the Department. In 2000, Larry received the coveted George Warren Fuller Award from the AWWA in recognition of his distinguished service to the water supply field. In 2010, Larry received the Kenneth J. Miller Award from the AWWA to recognize his efforts on behalf of Water For People.

Prior to joining the Department, Larry managed the Upper Souris Water Users Association and the South Central Regional Water District (formerly the Burleigh Water Users Cooperative) for three and eight years, respectively. Larry is a certified grade II water treatment plant and water distribution operator.

Larry will be missed. Department staff are extremely grateful for Larry's many years of skilled and dedicated service to the Program and the water industry.

Larry has accepted a new challenge that will enable him to continue his contributions to the water industry. Larry is joining Advanced Engineering and Environmental Services, Inc. as a Program Coordinator. His initial focus will be working with the Western Area Water Supply Project. The Department wishes Larry well in this new endeavor.





North Dakota Department of Health's Drinking Water Program Welcomes A New Program Administrator

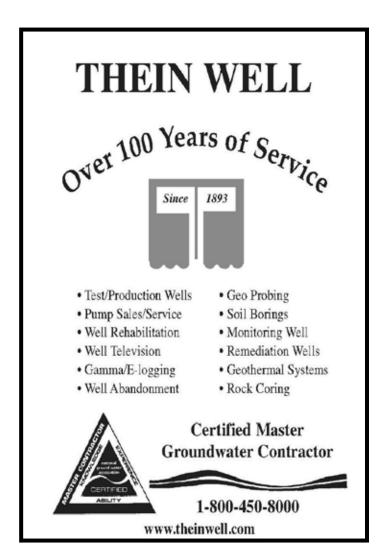
by Wayne Kern Director of the Division of Municipal Facilities, North Dakota Department of Health

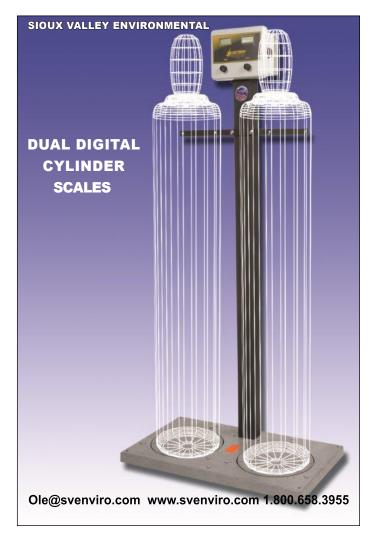
Larry Thelen's retirement from the Department of Health on August 2, 2013 left the Division the challenge of filling some big shoes to continue the work and success of the Drinking Water Program.

On July 29, 2013, Greg Wavra was selected to manage the Drinking Water Program. Greg has been with the Department and Drinking Water Program for more than 21 years. He has worked with most facets of the Program, with focus on Safe Drinking Water Act requirements pertaining to surface water and microbiological quality. This experience will enable Greg to further the work and success of the Program. Community officials, water and wastewater operators, and city/consulting engineers statewide are asked to join Division staff in supporting Greg as he adjusts to this new and important role in the Division.



New Drinking Water Program Administrator Greg Wavra





Drinking Water Program Directory				
Program Administrator	Greg Wavra	701-328-5257		
Acrylamide and Epichlorohydrin Rule	Gary Stefanovsky	701-328-5287		
Arsenic Rule	Gwen Niksic	701-328-5258		
Consumer Confidence Reports	LeeAnn Tillotson	701-328-5293		
Disinfectant/Disinfection Byproducts Rule (TTHM, HAA5) Stage 1 and Stage 2 Rule	Lydia Fewless	701-328-5221		
Electronic Reporting Information System (ERIS)	Barrett Brown	701-328-5209		
Filter and Backwash Recycle Rule	Gary Stefanovsky	701-328-5287		
Fluoride Addition	Gwen Niksic	701-328-5258		
Groundwater Rule	Gary Stefanovsky	701-328-5287		
Inspections: Northeast	Gregg Stewart	701-328-6621		
Inspections: Northwest	Justin Feld	701-328-6624		
Inspections: Southeast	Shawn Heinle	701-328-6627		
Inspections: Southwest	Bob Markhouse	701-328-6623		
Inspections: Northwest	Mike Trythal	701-328-5269		
Lead and Copper Rule	Gwen Niksic	701-328-5258		
Surface Water Treatment Rule: Interim Enhanced, Long Term 1 Enhanced, Long Term 2 Enhanced	Greg Wavra	701-328-5224		
Microscopic Particulate Analysis (MPA)	Gary Stefanovsky	701-328-5287		
Nitrate/Nitrite Program	Gwen Niksic	701-328-5258		
Operator Certification	Craig Bartholomay	701-328-6626		
Operator Expense Reimbursement/Public Notice Rule	LeeAnn Tillotson	701-328-5293		
Operator Training	Mike Brisben	701-328-6622		
Pesticides (SOCs)	Lydia Fewless	701-328-5221		
Primary and Secondary Inorganics	Lydia Fewless	701-328-5221		
Public Water System Updates (changes to source, treatment, contact, etc.)	Tammy Lamphear	701-328-5295		
Radionuclide Rule: Gross Alpha, Total Radium, Uranium	Lydia Fewless	701-328-5221		
Total Coliform Rule	Jeni Walsh	701-328-5231		
Unregulated Contaminant Monitoring	LeeAnn Tillotson	701-328-5293		
Volatile Organic Chemicals (VOCs)	Lydia Fewless	701-328-5221		
Central Phone: 701-328-5211		Fax: 701-328-5200		
North Dakota Pollutant Discharge Elimination System Program Directory				
Program Administrator	Karl Rockeman	701-328-5225		
	Brady Espe	701-328-5228		
Animal Feeding Operations	Jeremy Lang Marty Haroldson	701-328-5219 701-328-5234		
Biosolids	Karl Rockeman	701-328-5225		
Construction Stormwater	Dallas Grossman Luci Snowden Amanda Cross	701-328-5242 701-328-5239 701-328-5244		
Dewatering and Hydrostatic Testing	Sarah Waldron	701-328-5237		
Discharge Monitoring Reports (DMRs)	Curt Steier Marty Haroldson Jeff Roerick	701-328-5260 701-328-5234		
DMR Quality Assurance (OA) Study		701-328-5240		
Industrial Pretreatment	Marty Haroldson Jeff Roerick	701-328-5234 701-328-5240		
industrial i retreatment	Dallas Grossman	701-328-5242		
Industrial Stormwater	Luci Snowden Amanda Cross	701-328-5239 701-328-5239 701-328-5244		
Inspections	All Staff	701-328-5210		
Lagoon Overflows/Releases/Spills	All Staff	701-328-5210		
MS4 Stormwater	Dallas Grossman Luci Snowden Amanda Cross	701-328-5242 701-328-5239 701-328-5244		
Public Notices/NDPDES Permits	Curt Steier	701-328-5260		
Septic Pumper	Sarah Waldron	701-328-5237		
Wastewater Discharge Approvals	All Staff	701-328-5210		
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