OFFICIAL BULLETIN

VOLUME 98 OCTOBER- DECEMBER 2012 NUMBERS 10-12

NDWPCC

WINTER ISSUE

Industry-Leading Expertise

Ulteig's water engineers deal with the natural resources of our environment, both in management of capacities for present needs and planning for the future of available resources. Working in the field of hydrology and hydraulics, our experts are committed to addressing concerns related to the quality of public water supplies and safety as well as the timely handling of excess water.

Visit our website for a comprehensive list of projects and additional services.

Bismarck
Cedar Rapids
Denver
Detroit Lakes
Fargo
Minneapolis
Sioux Falls
Williston

Ulteig

www.ulteig.com • 877-858-3449

Engineering, Surveying, and Consulting Services

Editor
Katie Luther

Assistant Editor
Rachel Wolff

Business Manager
Patty Carman

Contributing Authors
Drinking Water Program Staff
Operator Certification, Training, and Facility Inspections Unit Staff

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

OFFICIAL BULLETIN

Official Publication of the
North Dakota Water and Pollution Control Conference

Winter Issue **Established 1935**

VOL. 98 **October 2012-December 2012** **NOS. 10-12**

PRESIDENT - Bill Gefroh
PRESIDENT-ELECT - Dean Sletten
VICE PRESIDENT - Dan Jonasson
DIRECTORS - Seth Lynne, Joe Ferguson, Tracy Eslinger, Mike Berg
ASSOCIATE DIRECTOR - Jeff Reiser
SECRETARY-TREASURER - Mike Brisben

INDEX TO ADVERTISERS

The services and products of the following represented firms are deserving of your best consideration.

FIRM **PAGE**

AE_2S ... 22, 42
Apex Engineering Group ... 30, back cover
Bartlett & West ... 23
Dakota Supply Group ... 19, 47
Double-Tree, Inc. ... 59
Electric Pump ... 19, 41
Engineering America, Inc. ... 46, 69
ESS Brothers & Sons, Inc. ... 59
Fargo Water Equipment, Inc. ... 40, 60
Ferguson Waterworks ... 7, 17
Ford Meter Box ... 11
Hawkins Water Treatment Group ... 63
Hobas Pipe USA ... 3, 12
Houston Engineering, Inc. ... 21
Hughes Lift Station Service, Inc. ... 49
Interstate Engineering ... inside back cover
KLJ ... 35, 71
KBM, Inc. ... 2
KLM Engineering ... 34
Mischler Sales ... 33
Moore Engineering, Inc. ... 13, 65
MVTL Laboratories, Inc. ... 23
ND Sewage Pump & Lift Station Service ... 16, 28
Preload, Inc. ... 8
SEH ... inside back cover
Sioux Valley Environmental ... 28
S. Roberts Co. ... 38
Team Laboratory Chemical Corp. ... 66
Thein Well ... 67
Tonka Equipment Company ... 26
Ulteig ... inside front cover, 56
Van Bergen & Markson, Inc. ... 69
Visu-Sewer, Inc. ... 68
Widseth Smith Nolting ... 34
Wold Engineering, P.C. ... 54

TABLE OF CONTENTS

SUBJECT **PAGE**

Minutes of the 84th Annual Meeting of the North Dakota Water and Pollution Control Conference ... 3
2012 Conference Photos ... 7
2012 Project of the Year Awards ... 9
Lead Ban Changes ... 11
ERIS Reporting ... 14
Operator of the Year Awards ... 18
Past Recipients: Operator of the Year Awards ... 19
How Healthy is Your Distribution System? ... 24
NDWEA 53rd Annual Meeting Minutes ... 27
2012 Arthur Sidney Bedell Award Winner - Eric Dodds ... 29
APWA 2013 Project of the Year Nominations ... 29
APWA Executive Meeting Minutes ... 30
Ed McCormick, WEF Vice President ... 31
2012 Water For People Sponsors ... 32
A World Where No One Suffers or Dies from a Water- or Sanitation-Related Disease ... 33
2012 William D. Hatfield Award Winner - Steve Himmelspach ... 33
2012 Conference Resolutions ... 36
2012 Operator's Meritorious Service Award ... 37
Sletten Wins Fuller Award ... 38
NDAWWA Recognizes Students in Fresh Ideas Poster Competition ... 38
27th Annual Expo - North Dakota Rural Water Systems Association ... 39
Two North Dakota Students Receive Awards at ACE 12 ... 42
Mayville Has the Best Tasting Water in North Dakota ... 42
Minutes of Board of Trustees Meeting, North Dakota Section of AWWA ... 43
Minutes of the Business Meeting of the North Dakota Section of AWWA ... 44
Herkimer by Wilfred Baska ... 45
Annual Operator Training Program ... 48
2013 Registration, 53rd Annual Professional Water and Wastewater Operator Training Program ... 50
Application for Water and/or Wastewater Operator Certification Exam ... 51
Operators Pass Certification Exams ... 54
2012 Conference Sponsors for Door Prizes, Social Hours, Coffee Breaks, and Golf Tournament ... 55
Wastewater Treatment Facility Safety Guidelines ... 56
2012 Conference Attendance List ... 60
Program Directories ... 72

On the cover: Every year at the North Dakota Water and Pollution Control Conference, there is a drinking water taste test sponsored by the North Dakota Section of the American Water Works Association. This year eight communities participated, including Valley City, Mandan, Mayville, Bismarck, Fargo, Garrison, Grand Forks, and Wahpeton. To find out who won, turn to page 42 .

Photo by Bill Gefroh, city of Bismarck.

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

The advertising contained in the *Official Bulletin* describes the products and services offered by companies in the water and wastewater industries. The listings are paid advertising. The publishers of the *Official Bulletin*, members of the North Dakota Water and Pollution Control Conference and the water and wastewater organizations that support its publication are not responsible for the accuracy of the advertisements nor any claims made therein.

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

To receive the *Official Bulletin* electronically or to no longer receive a paper copy, email Katie Luther at kcluther@nd.gov, or call 701-328-5258.

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

On the cover: Photos of the 84th Annual North Dakota Water and Pollution Control Conference, Minot, North Dakota. Photos by Rachel Wolff and Bill Gefroh.

Capable, Proficient and Receptive to your needs...

Water Quality & Supply
Waste Water Collection & Treatment
Rural Water Design & Improvements
Storm Sewer Systems

KBM, Inc.
ENGINEERING - PHOTOGRAMMETRY

Put our services to the test, contact us today for a free consultation.

Serving the Region's Municipal and Rural Communities for over 60 years…

Water Resources | Municipal | Transportation | Site Development | Waste Treatment

CIVIL & ELECTRICAL ENGINEERING SERVICES AERIAL MAPPING

405 BRUCE AVENUE #200 ♦ GRAND FORKS ND 58201 ♦ phone: 701-772-7156 ♦ fax: 701-772-0826
WWW.KBM-CORP.COM

Minutes of the 84th Annual Meeting of the North Dakota Water and Pollution Control Conference

The 84th Annual Meeting of the North Dakota Water and Pollution Control Conference (NDWPCC) was held October 16, 17, and 18, 2012, at the Grand International Inn, Minot, North Dakota. The annual meeting/ convention was held jointly with the North Dakota Chapter of the American Public Works Association (NDCAPWA), the North Dakota Water Environment Association (NDWEA), and the North Dakota Section of the American Water Works Association (NDAWWA).

The NDAWWA Education and Research Committee held a pre-conference meeting at 7:30 p.m. on Monday, October 15, 2012, in the Executive Room of the Grand International Inn.

Board meetings were held Tuesday, October 16, 2012, by NDAWWA at 7:30 a.m. in the Executive Room, NDCAPWA at 8:00 a.m. in the Viking Room, and NDWEA at 8:00 a.m. in the Norse Room. The joint board meeting was held at 9:30 a.m. in the Viking Room. Additional NDAWWA meetings were held in the Executive Room following the joint board meeting. During the board meetings, the associations planned their business meetings, listened to committee reports, accepted volunteers for committees, and conducted other business as needed. Association business meetings were Tuesday, October 16 (NDWEA); Wednesday, October 17 (NDCAPWA); and Thursday, October 18 (NDAWWA and NDWPCC).

North Dakota Department of Health (NDDH) operator certification exams were written Tuesday, October 16, 2012, from 7:30- 1:30 a.m. in the Candlelite I & II Rooms, with 26 operators taking 38 exams. Registration opened at 8:00 a.m., Tuesday, October 16, with Patty Carman and Darlene Germain welcoming all attendees. A total of 369 pre-registered, with final attendance being 346.

The joint board of directors of the NDWPCC, NDWEA, NDCAPWA, and NDAWWA met at 9:30 a.m. Tuesday, October 16, in the Viking Room with NDWPCC President Karla Olson calling the meeting to order at 9:41 a.m. The following board members and guests were in attendance: Chuck Abel, Terry Boehm, Mike Brisben, David Bruschwein, Darrell Casteel, Eric Dodds, Tracy Eslinger, Joe Ferguson, Bill Gefroh, Harvey Gullicks, Jeff Heintz, Nancy Huether, Dan Jonasson, Murthy Kasi, Gene Koontz, David Kresel, Dennis Larson, Wei Lin, Lance Meyer, Wayne Offerdahl, Karla Olson, Tim Paustian, Meredith Quinn, Terry Rust, Dean Sletten, Hazel Sletten, Jason Sorenson, Larry Thelen, Donald Tucker, Eric Volk, Jessica Wagner, Greg Wavra, Rachel Wolff, and Chad Zander.

President Olson entertained a motion to dispense with reading of the minutes from the May 16, 2012 joint board meeting at the Seven Seas Hotel in Mandan and approve the copy mailed to each board member or those published in the conference issue of the *Official Bulletin*. Bill Gefroh so moved. Terry Rust seconded, and the motion carried.

Next, President Olson called for the treasurer's report. Mike Brisben read the January 1, 2012-September 30, 2012, NDWPCC financial report, which showed a net income of $31,945.70 and total assets of $128,559.55. Chuck Abel moved to accept the treasurer's report as presented. Wayne Offerdahl seconded, and the motion carried.

President Olson moved to old business calling for an update on an alternate plan for the 2018 conference in Bismarck. Mr. Brisben noted that October 30-November 1, 2018 dates were voted on and approved at the May meeting. He then reported that the conference would be notified by the Ramkota Hotel if earlier dates become available and that a vote on Civic Center expansion is on the November 6, 2012 ballot. Plans for an adjacent hotel are pending should the measure pass. He also stated projected costs for use of the Civic Center were $3,000 per day and $60 per exhibitor booth

Jim Mahony
Area Sales Manager
HOBAS®
12701 West 129th
Overland Park,KS 66213
F 866-820-2513
C 515-306-6000
jmahony@hobaspipe.com
HOBAS PIPE USA
1413 E. Richey Road
Houston,TX 77073
T 281-821-2200
800-856-7473
F 281-821-7715
www.hobaspipe.com

with the Bismarck-Mandan Convention and Visitors Bureau providing a $500 donation. Further discussion included tentative dates of October 16-18 at the Fargo Holiday Inn and returning to Grand Forks. Hazel Sletten agreed to check on possible dates in Grand Forks. Terry Rust commented that later dates appear to be more manageable. Tim Paustian noted that later dates impact the golf tournament and NDAWWA's ability to find sponsors and sell mulligans to raise money for Water for People. Tracy Eslinger also expressed concerns about board members and attendees not being able to enjoy Halloween with their young children. Moving on, President Olson tabled further discussion, recommending that the 2018 meeting be added to the agenda at the January meeting in Mandan.

Next, Meredith Quinn reported that three people would be participating in the poster competition and that last year's winner placed second at the AWWA Conference and Exposition (ACE) in Dallas, Texas. Ms. Quinn also noted that AWWA will provide free registration and the North Dakota section will provide $1,500 for this year's winner to attend the 2013 meeting in Denver.

President Olson opened the floor for discussion regarding the North Dakota Chapter of the North America Stormwater and Erosion Control Association. Mr. Brisben stated that three stormwater presentations were included in this year's sessions. President Olson asked that the joint boards further discuss inviting the North Dakota Chapter to join at the January 2013 meeting and to consider action at the May 2013 meeting.

President Olson called for any other old business. Hearing none, President Olson asked for volunteers for the NDWPCC nominating committee. President Olson noted that Vice President Gary Bracht had retired and would be stepping down. Mr. Brisben indicated that previously, if an officer resigned, the current officers would move up and that the nomination committee should look to add two incoming directors and an associate director. Dan Jonasson, Tim Paustian, and Dean Sletten agreed to select this year's slate of officers. Next, President Olson asked for volunteers for the auditing committee, with Bill Gefroh, Terry Rust, and Jessica Wagner agreeing to serve. It was agreed the NDWPCC audit would be completed on a later date at the Environmental Training Center in Bismarck prior to the January 2013 joint board meeting.

Continuing with new business, President Olson asked the joint boards to consider nominees for life membership to be voted on at the NDWPCC business meeting Thursday, October 18. Dan Jonasson recommended that Alan Walter and Dave Burckhard from Minot be considered. Next, Mr. Brisben reviewed activities for the 84th annual meeting which included the golf tournament, tours, spouse/guest program, three concurrent sessions, exhibitor program, breakfast poker, water taste test, YP poster competition and awards banquet. Continuing with new business, President Olson asked that the boards begin thinking of topics for the 2013 spring training sessions and the fall conference. Eric Dodds recommended incorporating safety training and a pre-conference hands-on workshop. Don Tucker noted that Grand Forks had sponsored a disaster management workshop and that lock out/tag out training would be of interest. Mr. Brisben indicated that confined space and chemical safety presentations were on the 2011 agenda. Mr. Rust added that a safe driving workshop be considered, and Ms. Quinn noted that safety was discussed at NDWARN.

President Olson read a memo to the joint boards from the Grand Forks Public Works Department asking for approval to investigate program options for the 2013 conference. Options included mobile workshops, feature regional utilities (city of Grafton and rural water districts), hands-on demonstrations, and Grand Forks young professionals. Ms. Sletten also recommended pre- and post-conference workshops. Mr. Brisben asked if the tours of Grand Forks municipal facilities would also be included. Ms. Sletten suggested they be incorporated into the mobile workshops. Terry Rust made a motion to allow Grand Forks to pursue options and report at the January meeting. Mr. Gefroh asked if there were any liability issues and how many hours the mobile workshops would require. Ms. Sletten indicated that she would research options and report at the January meeting. Mr. Brisben noted that there was a motion on the floor. President Olson called for a second. Joe Ferguson seconded, and the motion carried.

President Olson called for any other new business. Hearing none, President Olson entertained a motion to adjourn. Dan Jonasson so moved. Wayne Offerdahl seconded, and the motion carried. The meeting adjourned at 10:23 a.m.

Water samples for the 21st annual water taste test, sponsored by NDAWWA, were accepted throughout the day Tuesday with eight public water systems entering.

The Tuesday luncheon and NDWEA business meeting were held in the Grand Ballroom with NDWEA President Don Tucker presiding. NDAWWA Chair Tim Paustian welcomed all attendees on behalf of the joint board of directors, and Minot City Manager David Waind welcomed all on behalf of the city. Guest speaker Ed McCormick, vice president, WEF, gave a brief presentation on behalf of WEF.

The annual golf tournament teed off at 1:00 p.m. at the Souris Valley Golf Course with Rick Hair and Jason Sorenson handling local arrangements.

The Tuesday afternoon concurrent sessions opened at 1:30 p.m., with NDAWWA Chair-Elect Eric Volk, NDWEA Vice President Jessica Wagner, and NDCAPWA President Dan Jonasson moderating. The three sessions were held in the Executive Room, Lower Banquet Center, and Candlelite I & II Rooms.

Tuesday's topics included:
Southwest Pipeline Project OMND Membrane WTP and Membrane Process Residual Challenges - James Lennington, Project Manager, Bartlett & West.
Investigation of Pinhole Copper Corrosion in Household Plumbing - Delvin DeBoer, Special Projects Engineer, AE_2S.
Keeping Track of Your Infrastructure - Hazel Sletten, Water Plant Superintendent, city of Grand Forks.
Successful Operation of Nanofiltration Plants: Lessons Learned - Steve Ahlschlager, Senior Project Engineer, Moore Engineering.
Fixed Intergrated Treatment Technologies, An Introduction - Tim Petz, Owner, Innovative Treatment Systems.
Combined Heat and Power Systems Using Biogas in WWTP's - John Fisher, Senior Design Leader, SEH and Tracy Ekola, Regional Practice Center Leader, SEH.
Achieving Low Level Nitrogen and Phosphorus Effluent Concentrations in the Moorhead Wastewater Treatment Plant - Steven Young, Michael Quamme, Kevin Young, and Tanush Wadhawan, NDSU WEFTEC Design Team.
Feasibility of Landfill Gas Recovery in the Grand Forks, ND Landfill - Matthew Erickson, John Erickson, and Derek Flaten, UND WEFTEC Design Team.
City of Minot Lift Station Repairs and Sewer Expansion - Lance Meyer, City Engineer, city of Minot; Mike Berg, Vice President, Apex Engineering Group; and Tim Paustian, Associate, Apex Engineering Group.
North Dakota Water Quality Evaluation Project - Joel Galloway, Associate Director, U.S. Geological Survey.
North Dakota Solid Waste and Recycling Association - Diana Trussell, Vice President, NDSWRA.
Upper Missouri and Souris River Flooding 2011 - Gregg J. Wiche, Director, USGS Water Science Center.

The 3:00 p.m. break was held in the Grand Ballroom with all breaks sponsored by the business firms, vendors, and commercial suppliers listed in the program and on the poster located next to the registration table. The Tuesday night buffet was attended by 175 NDWPCC members and guests.

Early setup for the 24th annual exhibitor program ran from 4:30 p.m. to 10:00 p.m. on Tuesday in the Convention Center and adjacent hallway. Late setup was 7:00 a.m. Wednesday, October 17 and display hours were from 7:30 a.m. - 11:30 a.m. with 52 firms/suppliers reserving 58 booths. A student/young professional's poster competition was held in the Grand Ballroom in conjunction with the exhibitor program, with the top poster winning a trip to the AWWA Conference and Exposition (ACE) 2013 in Denver, Colorado.

A buffet breakfast sponsored by the exhibitors was held in the Grand Ballroom along with a breakfast buffet poker game in the exhibit hall. The poker hands were turned in at the NDWEA booth, and winners were announced at the Wednesday business luncheon. Poker dealers included AE_2S, Apex Engineering Group, Interstate Engineering, MVTL Laboratories, Moore Engineering, Sanitation Products, Stantec Consulting Services, and Red Flint Sand & Gravel. The following business firms, suppliers, and associations participated in the exhibitor program: NDAWWA; NDWEA; NDCAPWA; Cretex; NDRWSA; Moore Engineering; Widseth Smith Nolting; Kadrmas Lee & Jackson; Team Lab; ND Sewage Pump & Lift Station; Sanitation Products, Inc.; Vector Construction, Inc.; Electric Pump, Inc.; Interstate Engineering, Inc.; Ferguson Waterworks; HDR Engineering, Inc.; Hawkins, Inc.; Visu-Sewer, Inc.; MVTL Laboratories, Inc.; Apex Engineering Group; Quality Flow Control, Inc.; Advanced Drainage Systems; Houston Engineering, Inc.; Construction Specialties; Thein Well Co.; SEH; Engineering America, Inc.; Wells Concrete; DN Tanks; Dakota Pump & Control, Inc.; Vessco, Inc.; Mishler Sales; Tech Sales Co.; Dakota Supply Group, Inc.; AE_2S;

Van Bergen & Markson, Inc.; American Flow Control; Red Flint Sand & Gravel; Parsons Engineered Products, Inc.; Bartlett & West; Fischer, Harris & Associates; Tonka Equipment Co.; Stantec Consulting Services, Inc.; Larson Data Communications, Inc.; Prinsco Inc.; Pollution Control Systems; Northern Pipe Products; HD Supply Waterworks; Fargo Water Equipment; Bio-Microbics; Hack Co.; and Infratech.

The North Dakota Operator Certification Advisory Committee met Wednesday, October 17 at 8:00 a.m. in the Lobby Lounge. The committee meets annually at the conference and along with the NDDH, provides support for the North Dakota Water and Wastewater Operator Certification and Training Programs.

Eighty-seven attendees signed up for the tours to Minot Municipal Facilities, High Services Pumps, and Flood Zone. Transportation was provided by the city of Minot.

Five people participated in the spouse/guest outing to Ruby Tuesdays and Margie's Glass Studio.

The NDCAPWA luncheon and business meeting were held Wednesday at 12:00 noon in the Grand Ballroom with NDCAPWA President Dan Jonasson presiding. Guest speaker Brian Van Norman, Director of Chapter Relations, APWA, gave a brief presentation on behalf of APWA.

The Wednesday concurrent sessions convened at 1:30 p.m., with NDAWWA Trustee Nancy Huether, NDWEA President-Elect Wei Lin, and NDCAPWA Director Walt Smith moderating. The sessions were held in the Executive Room, the Lower Banquet Center, and the Candlelite I & II Rooms.

Wednesday's topics included:
Chemically Cleaning Distribution Systems - Scott Kinsella, Branch Manager, Hawkins, Inc.
Sustainable Communities in North Dakota - Brock Storrusten, Branch Manager, Moore Engineering.
Wastewater Disposal Challenges in Western ND - Deon Stockert, AE_2S; Karl Rockeman, NDDH; Paul Levchak, NDDH; Paul Eisenschenck, Centerville Development Group; and Scott Schaefer, AE_2S.
Membrane Thickening Aerobic Digestion Process - Bryen Woo, Project Manager, Ovivo USA, LLC and Karla Olson, Associate/Project Manager, Apex Engineering Group.
Industrial Pretreatment - Bill Gefroh, city of Bismarck; Jeff Roerick, NDDH; William Sukalski, city of Grand Forks; and Terry Rust, city of West Fargo.
Challenges and Opportunities in Permit Implementation and MS4 Management - Colleen Peterson, city of Bismarck; Melanie Parvey, city of Grand Forks; and Andy Mack, Strata Corporation.
Urban Forestry - The Green Infrastructure - W. L. Jackson Bird, city forester, city of Bismarck.
Fargo-Moorhead Flood Diversion Project Update - Eric Dodds, Operations Manager, AE_2S.

Attendees met at 3:00 p.m. in the Grand Ballroom for an afternoon break.

A social hour was held in the Grand Ballroom prior to the annual awards banquet. The following companies graciously sponsored the social hour, door prizes, coffee breaks, and golf tournament. Ackerman-Estvold Engineering, AE_2S; Apex Engineering Group; Dakota Supply Group, Inc.; Electric Pump; Fargo Water Equipment; Ferguson Waterworks; HD Supply Waterworks; HDR Engineering, Inc.; Houston Engineering, Inc.; Interstate Engineering, Inc.; Kadrmas, Lee & Jackson; Killoran Trucking & Brokerage, Inc.; Moore Engineering, Inc.; MVTL Laboratories, Inc.; ND Sewage Pump & Lift Station Service; Northern Pipe Products; Olson Engineering, Inc.; Parsons Engineered Products, Inc.; Stantec Consulting Services; Short-Elliott-Hendricks; Team Lab; Van Bergen & Markson, Inc.; and Visu-Sewer, Inc.

The awards banquet and awards ceremony was held in the Convention Center with 227 members and guests attending.

Master of Ceremonies Shaun Sipma gave the invocation and introduced the officers and dignitaries at the head table. Entertainment was by the Magi Drumline.

Gene Koontz, Vice President, AWWA, presented the George Warren Fuller Award to Dean Sletten, Senior Project Engineer, Moore Engineering and the Operator Meritorious Award to Ken Miskavige, Water Plant Superintendent, city of Grafton. Nancy Huether, NDAWWA Trustee, announced the winners of the poster competition and the water taste test. This year's poster winner was Leslee Storlie and the three taste test finalists were Mandan, Mayville, and Valley City, with Mayville taking the top prize. Charlie Vein, President, AE_2S, drew the winners of the 11th annual Water for People raffle with Dennis Fewless, NDDH winning

Continued on page 9

2012 Conference Photos

FERGUSON® Waterworks

Bismarck, ND
1201 Airport Road
701-258-9700
800-932-8759

Fargo, ND
1917 1st Ave N
701-293-5511
800-437-4362

www.nwws.biz

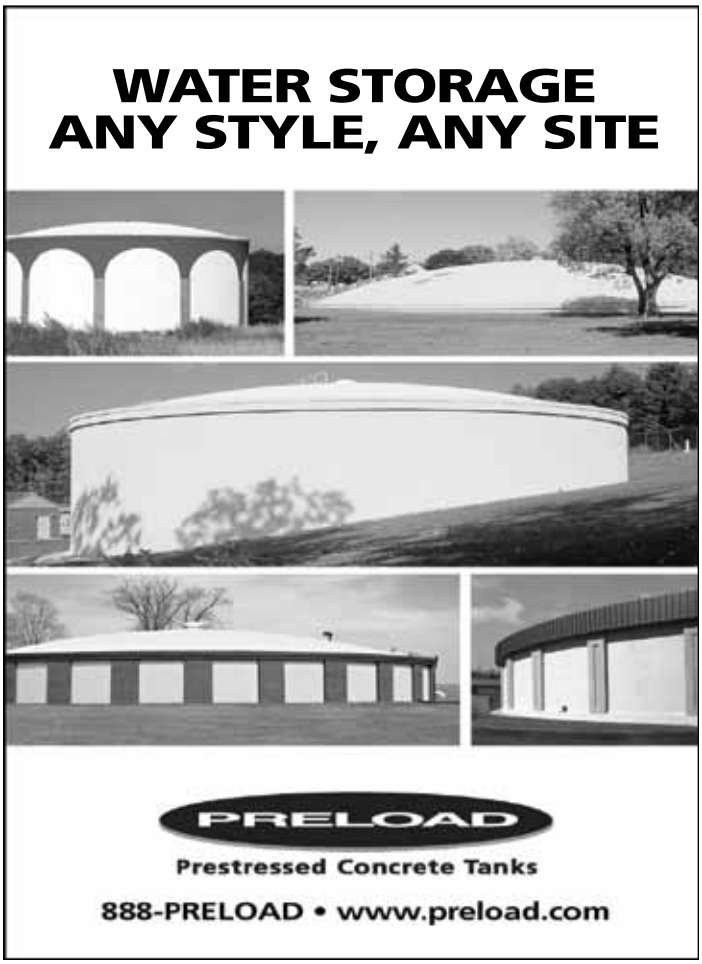


Photo by Bill Gefroh

Continued from page 6

this year's grand prize. Mr. Vein also announced that the raffle, sponsor donations, and golf mulligans raised $5,605, the highest amount to date.

Ed McCormick, Vice President, WEF, presented the WEF Hatfield Award to Steve Himmelspach, Wastewater Plant Superintendent, city of Mandan and the Bedell Award to Eric Dodds, Operations Manager, AE_2S.

Dan Jonasson, President, NDCAPWA, announced the 2012 APWA project of the year awards with the Minto Collection System, city of Minto, designed by AE_2S receiving the small community award and the Grand Forks Public Works Facility, city of Grand Forks, designed by EAPC receiving the large community award.

Mike Brisben, NDDH, presented Operator of the Year Awards to Alan Beyreis, Waterworks Superintendent, city of Garrison; Frank Mosser, Maintenance Superintendent, city of Maddock; Sam Shutt, Waterworks Superintendent, city of Minto; and Michael Tank, City Superintendent, city of Medora.

2012 Project of the Year Awards

The city of Minto required a new wastewater collection system due to aging and deteriorating lift stations and force main.

Jessica Wagner, AE_2S and Sam Shutt, Minto

The Grand Forks Public Works Facility remodeling project involved the combining of the Water, Street, and Sewer Department Administrative Offices into one cohesive office suite.

Aaron Bohrer, EAPC and Melanie Parvey-Bibey, Grand Forks

The annual public works, director and city engineers meeting was held Thursday, October 18, 2012, at 7:30 a.m. in the Candlelite II Room.

The three Thursday morning concurrent sessions convened at 8:00 a.m. in the Norse Room, Viking Room, and Executive Room, with Jason Sorenson, NDAWWA Trustee; Harvey Gullicks, NDWEA Faculty Advisor; and Lance Meyer, NDCAPWA Director moderating.

Thursday's topics included:
Wastewater Collection - Dan Tucker, city of Grand Forks; Karla Olson, Apex Engineering Group; Bill Gefroh, city of Bismarck; and Rick Gillund, city of Enderlin.
Western Area Water Supply Project Update - Cory Chorne, Project Manager, AE_2S and David Johnson, Operations Manager, AE_2S.
Water Distribution System Modeling for Improved Water Quality - Tom Welle, President, Apex Engineering Group.
Enforcement Response Policy and Tracking Tool - Larry Thelen, Drinking Water Administrator, NDDH.
Transformation of a Lime Softening Treatment into a Membrane Treatment Process - James Sepp, Senior Project Engineer, Moore Engineering.
Nutrient Removal/Criteria Development - Karl Rockeman, NDDH; Wei Lin, NDSU; Mike Ell, NDDH; and Scott Schaefer, AE_2S.
Phytoremediation of Contaminated Water - Tim Kenyon, Principal; Legette, Brashears & Graham, Inc.
Dickinson Sewer System Planning - Mike Berg, Vice President, Apex Engineering Group.
Williston Wastewater Treatment Facility Update -

Domestic Wastewater Needs in an Oil Boom - Scott Schaefer, Wastewater Group Manager, AE_2S.
EPA Energy Star Rating of Municipal Facilities - Don Tucker, Wastewater Treatment Asset Manager, city of Grand Forks.
LiDAR Survey-Scanning the Future - Pete Eade, Lead Engineering Tech, Bartlett & West.
Storm Water Pollution Prevention Plan - Dallas Grossman, Environmental Engineer, NDDH.
Sediment Dynamics on the Red River and its Tributaries near Fargo - Joel Galloway, Associate Director, U.S. Geological Survey.
Storm Water Lift Station Assessment and Long-term Planning - Joel Paulsen, Municipal Group Leader, Kadrmas, Lee & Jackson and John Wirries, Project Engineer, Kadrmas, Lee & Jackson.
NDPDES Update - Karl Rockeman, NDPDES Program Manager, NDDH.

A break was held in the Grand Ballroom at 10:00 a.m.

The joint business meetings and luncheon of the NDAWWA and NDWPCC were held at 12:00 noon with NDAWWA Chair Tim Paustian and NDWPCC President Karla Olson presiding. Chair Paustian called the NDAWWA meeting to order at 12:23 p.m. and the meeting adjourned at 12:53 p.m.

President Olson called the NDWPCC business meeting to order at 12:54 p.m. As the first order of business, President Olson called for a motion to dispense with the reading of the minutes from the 2011 annual meeting in Bismarck and approve the minutes as published in the *Official Bulletin*. Rick Gillund so moved. Dan Jonasson seconded, and the motion carried.

Next, Mr. Brisben presented the 2012 treasurer's report showing a net income of $31,945.70 and total assets of $128,559.55. Dean Sletten motioned to accept the treasurer's report as presented. Wei Lin seconded, and the motion carried.

President Olson called for a motion to dispense with the reading of the resolutions and approve the resolutions as written and posted near the registration table throughout the conference. Eric Dodds so moved. Wei Lin seconded, and the motion carried.

Next, President Olson called for nominations for life membership. Mr. Jonasson nominated Alan Walter and Dave Burckhard. President Olson called for any other nominations. Hearing none, President Olson called for a motion to close nominations and the Secretary-Treasurer be instructed to cast a unanimous ballot. Lance Meyer so moved. Wei Lin seconded, and the motion carried.

Next, President Olson read the following slate of officers for 2012-2013:

President: Bill Gefroh
President-elect: Dean Sletten
Vice President: Dan Jonasson
Holdover Directors: Seth Lynne and Joe Ferguson
Incoming Directors: Tracy Eslinger and Mike Berg
Associate Director: Jeff Reiser
Secretary-Treasurer: Mike Brisben

President Olson called for any other nominations from the floor. Hearing none, President Olson called for a motion to close nominations and to instruct the Secretary-Treasurer to cast a unanimous ballot. Chuck Abel so moved. Alan Walters seconded, and the motion carried.

President Olson reported the auditing committee would meet at the Environmental Training Center in Bismarck and complete the 2012 NDWPCC financial audit prior to the January 2013 joint board meeting.

Next, outgoing President Olson welcomed incoming President Bill Gefroh. President Gefroh presented Ms. Olson the NDWPCC Presidents Service Award and thanked her for her strong leadership and hard work.

President Gefroh encouraged the members and presenters to submit articles to Katie Luther for publishing in the *Official Bulletin*.

Next, President Gefroh called for a motion to close the meeting. Seth Lynne so moved. Rick Gillund seconded, and the 84th annual meeting of the NDWPCC adjourned at 1:08 p.m., Thursday, October 18, 2012.

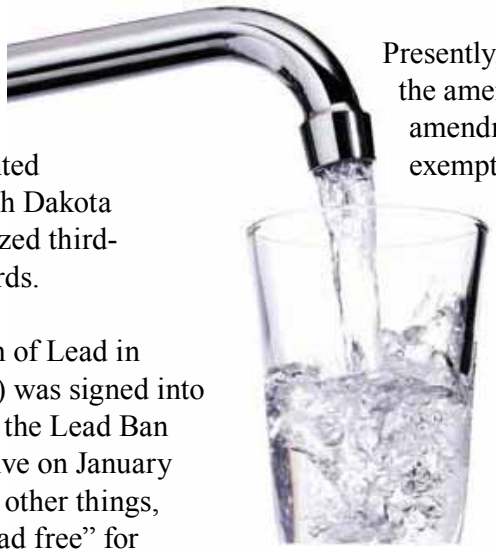
Names for the remaining door prizes were drawn following the luncheon.

Respectfully submitted,
Mike Brisben
Secretary-Treasurer

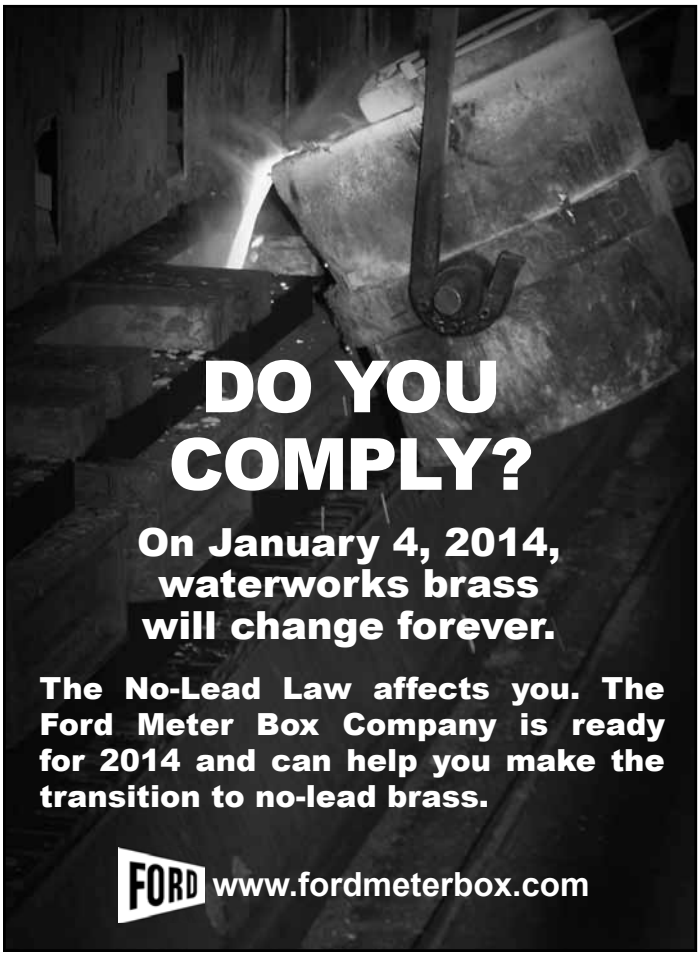
Lead Ban Changes

Wayne Kern, North Dakota Department of Health, Municipal Facilities

Changes in the Lead Ban will have an impact on construction and repair of potable water systems starting in 2014. The changes are important, as they place further limitations on materials acceptable for future use in potable water systems. The Lead Ban will continue to be implemented in North Dakota through the North Dakota State Plumbing Code and recognized third-party product certification standards.



On January 5, 2011, the Reduction of Lead in Drinking Water Act (P.L. 111-380) was signed into law. This new law, which amends the Lead Ban under the SDWA, becomes effective on January 4, 2014. The amendments, among other things, revise the SDWA definition of "lead free" for piping, pipe fittings, plumbing fittings, and fixtures. Currently, the lead limit for such materials is 8 percent. The amendments reduce this lead limit to 0.25 percent (weighted average with respect to wetted surfaces).



This primarily affects materials made of brass or bronze. Please note that the lead limit for solder and flux remains at 0.2 percent.

Presently, it is unclear how several provisions of the amendments are to be implemented. The amendments contain two exemptions. One exemption is for "pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for non-potable services, such as manufacturing, industrial processing, irrigation, outdoor watering, or any other uses where water is not anticipated to be used for human consumption." The other exemption is for "toilets, bidets, urinals, fill valves, flushometer valves, tub filters, shower valves, service saddles, or water distribution main gate valves that are 2 inches in diameter or larger." At this time, it is unclear what criteria can be used to determine if a product, not specifically listed as exempted, can be assumed to not be used for human consumption. It is also unclear how products will be labeled to indicate compliance with the new lead-free limit. Finally, it is unclear what requirements will need to be met when repairing and returning presently compliant products to service starting January 4, 2014. Federal guidance on these matters is expected in 2013.

In summary, beginning January 4, 2014, only products that meet the revised lead-free definition above, unless exempted, can be used in construction or repair of potable water systems. To prepare for this change, the North Dakota Department of Health, Municipal Facilities Division advises public water systems to update their product inventories, deplete product stocks that will not meet the new lead-free definition, and investigate the availability of future-compliant products when making orders for products that may be used starting January 4, 2014.

Questions on this matter may be directed to the division at 701.328.5211.

What Makes **HOBAS®** The Standard?

Precision centrifugal casting, consistent high quality, fiberglass-reinforced, polymer mortar pipes

Responsive customer service, on-site field reps backed by extensive engineering support

HOBAS®

Time Proven

Leak Free

Long Lasting

Corrosion Resistant

High Strength

Quick, Easy Installation

High Flow Capacity

HOBAS PIPE USA
281-821-2200
www.hobaspipe.com

We turn ideas into reality.

For more than 50 years, we've partnered with the region's cities and small towns to establish and maintain the water and sewer systems so vital to their prosperity. Today, we work side by side with city leaders in more than 82 communities to find financing and engineering solutions for their infrastructure needs.

Water:

- Groundwater and Surface Water Studies
- Pumping Facilities and Intake Structures
- Storage Facilities
- Water Treatment Plants
- Storage Facilities
- Distribution Systems

Wastewater:

- System Analysis
- Inflow/Infiltration Studies
- Collection Systems
- Wastewater Treatment Facilities

Storm Water:

- Collection Systems
- Pumping Facilities
- Retention/Detention Ponds
- Outlet Structures
- Permits

moore engineering, inc.

mooreengineeringinc.com

Consulting Engineering • Land Surveying

West Fargo, ND 701-282-4692

Minot, ND 701-839-1590

Fergus Falls, MN 218-998-4041

ERIS Reporting

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

The Electronic Reporting Information System (ERIS) is a web-based information system that allows drinking water facilities to electronically send Maximum Residual Disinfectant Levels (MRDLs) to the North Dakota Department of Health, Municipal Facilities Division, Drinking Water Program (DWP). This system is designed to provide an alternative to hand-written or paper-based MRDL reports that is faster, more efficient, and less burdensome for both the regulated facilities and the DWP. All of the necessary legal and security functionalities have been included for this system to serve as a completely paperless reporting system.

With the implementation of the Stage 2 Disinfectants and Disinfection Byproducts Rule, which began April 1, 2012, North Dakota has 348 systems that are required to fulfill the MRDL testing and reporting requirement of the rule. If one does the mathematics, that equals 1,044 manual MRDL entries into the database each quarter, most of which are entered within a two-week timeframe.

Using ERIS for MRDL submission reports can represent significant labor savings while greatly increasing the data entry efficiency, accuracy, and overall reliability of this information. Some benefits of the ERIS system include:

- Saving on paper, processing time, and postage.
- Reducing the likelihood of errors.
- Avoiding rejected records because of unreadable or missing information.
- Allowing operators to submit data for multiple water systems with a single account.
- Users will receive instant notification (via email) that their submission has been received by the DWP.
- All previous submissions are viewable and printable.
- Data can be partially entered, saved, and completed at a later time; the entire form does not need to be completed in one session.

> This system is designed to provide an alternative to hand-written or paper-based Maximum Residual Disinfectant Level (MRDL) reports that is faster, more efficient, and less burdensome for both the regulated facilities and the department.

Using ERIS can also improve the DWP's overall effectiveness with faster responses to data analyses, compliance assessment, and decision-making.

The DWP has tried to minimize the needs for using ERIS as well as making it user friendly. The basic system requirements are:

- A computer/laptop
- Internet access
- Browser (Internet Explorer, Mozilla Firefox, or Google Chrome)
- An account with the North Dakota Online Services (the same as an account created to submit hunting applications for the North Dakota Game and Fish Department)

The basic steps to getting set up are:

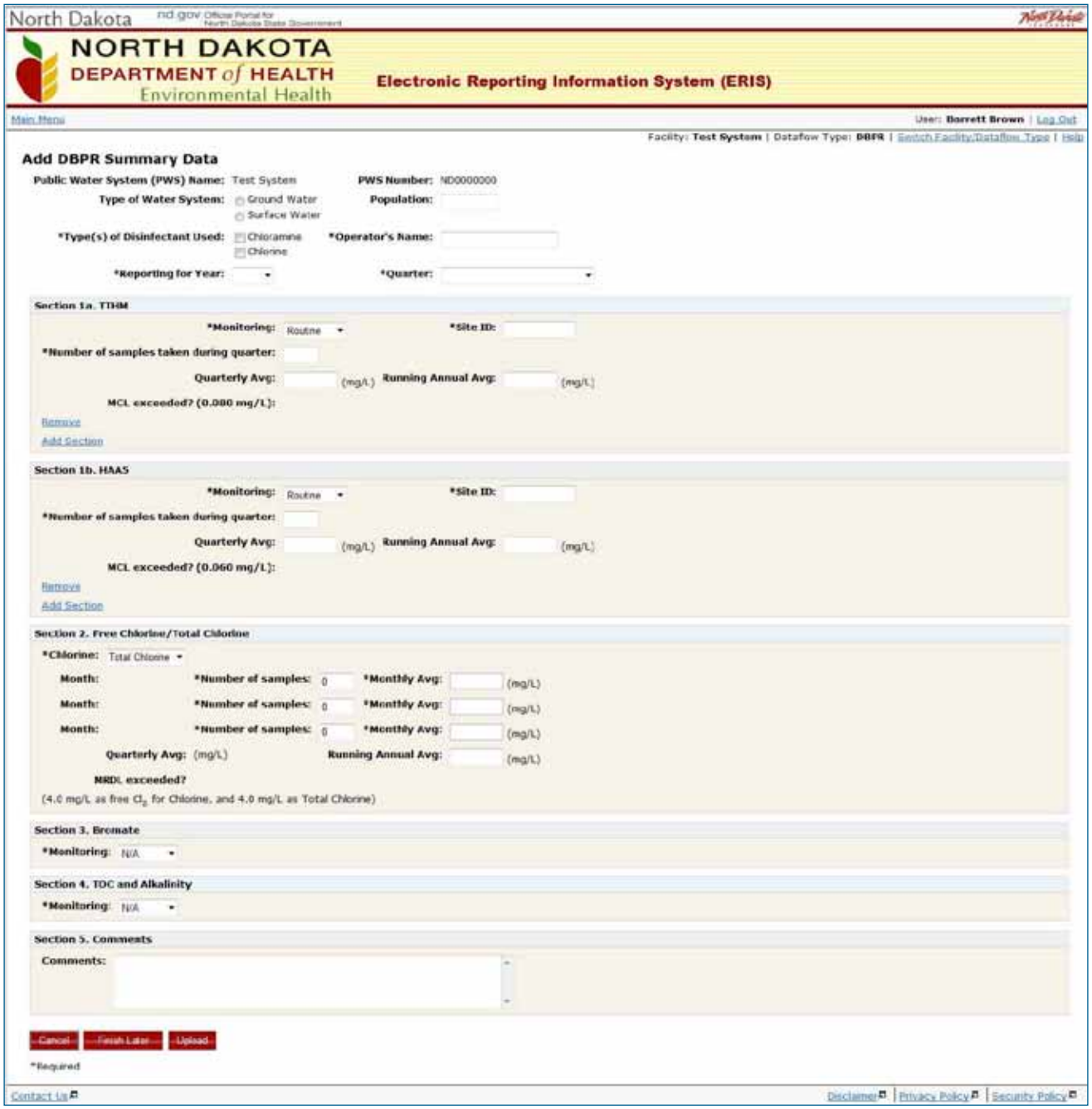
- Contact the DWP and express interest in getting set up with ERIS.
- The DWP will provide detailed instructions on how to create an account with North Dakota Online Services.
- Create an account with North Dakota Online Services.
- Provide, to the DWP, the *userid* and the list of public water systems for which you will be reporting.
- The DWP will complete registration and inform you when the process is complete and available for submitting data via ERIS.

The feedback that the department has received so far regarding the system has been positive. Users have stated that they feel the system is easy to use. One user even commented when the point of the low number of current users was mentioned: "Why wouldn't they want to use it, I look forward to using it." The main reason for using it was the immediate confirmation that data was received. For the quarter ending September 30, 2012, there were 22 operators who submitted data for 45 water systems. These systems range from very small cities to large rural water systems/districts to large cities of more than 40,000 people.

Following is a screenshot of the data entry page for DBPR data. As you can see, there are not a lot of fields that need to be filled in. After filling in the basic information at the top of the page, for each site, the user would complete one section for *TTHM,* one section for *HAA5,* and the *Free Chlorine/Total Chlorine* section for the MRDL data. The user can either submit the data to the DWP or save the data to be finished and submitted later.

The Environmental Health Section is in the initial stages of expanding the functionality of ERIS to include discharge monitoring reports (DMRs) required by the Division of Water Quality. This process is in the development stage, and a completion date cannot be set since completion is dependent on EPA approval. However, the hope is to be in production with this enhancement by the end of 2013. If you are also the individual responsible for reporting DMR data, you would be well served by getting accustomed to using ERIS now. When the DMR portion is available, you will already have your account set up, and know the process. You would only need to learn the DMR part of ERIS.

If you have questions about using ERIS or submitting data electronically to the DWP, please contact either Lydia Fewless at lfewless@nd.gov or 701.328.5221; or Barrett Brown at bjbrown@nd.gov or 701-328-5209.



ND SEWAGE PUMP & LIFT STATION SERVICE CO INC

NDSP

WE SPECIALIZE IN ANNUAL SERVICE CONTRACTS

SERVICE AND MAINTENANCE OF ALL MAKES OF LIFT STATIONS

24 HOUR REPAIR SERVICE

***New for 2012:** Full line of Dewatering Pumps

WE SELL

- ABS Pumps & Mixers
- Goulds Pumps
- Dewatering Pumps
- Used Pumps & Parts
- Anchor Float Switches
- Aluminum Hatches
- SJE Rhombus Controls
- Relays, Switches & Alternators
- Stainless Steel Chain
- Stainless Steel Pipe & Fittings
- Winches & Hoists

abs

GOULDS PUMPS

North Dakota Sewage Pump & Lift Station Service Company
1740 E Main Ave • West Fargo, ND 58078
701-282-6760 • 800-832-7055 • Fax 701-282-3579

COUNT ON US

In the waterworks business, time means money. At Ferguson, we understand this fact and want to ensure you meet your schedule by providing you the largest inventory in the region:

- Water & Sewer Distribution Products
- Water Meter Systems
- Storm Water Systems
- Rural Water Systems
- Treatment Plant Pipe & Valves
- Polyethylene Pipe & Fusion Equipment
- Pressure Sewer Systems
- On-Site Septic Systems
- Irrigation Systems
- Locators & Safety Equipment
- Geosynthetic Products

You can COUNT ON Ferguson Waterworks to provide you what you need.

FERGUSON® Waterworks

1917 1st Ave N • Fargo, ND 58102 • 701-293-5511 • 800-437-4362
1201 Airport Road • Bismarck, ND 58504 • 701-258-9700 • 800-932-8759

Operator of the Year Awards

The North Dakota Department of Health (NDDH), in an effort to encourage proper operation and maintenance of water and wastewater systems, instituted an annual operator awards program in 1981 at the Annual North Dakota Water and Pollution Control Conference in Jamestown. This year marks the 32nd anniversary of the awards program which has honored 176 operators and three military units (the U.S. Army Reserve, the N.D. Army National Guard, and the N.D .Air National Guard) for outstanding service.

The awards are based on:

1. Field and inspection reports.
2. Compliance with state regulations.
3. Participation in the North Dakota Operator Training and Certification Program.
4. Participation in the North Dakota Water and Pollution Control Conference, North Dakota Chapter of the American Public Works Association, North Dakota Water Environmental Association, and the North Dakota Section of the American Water Works Association.

Recipients of the 2012 Operator of the Year Awards are:

Mike Brisben, NDDH and Sam Shutt, city of Minto

Sam Shutt - City of Minto

Sam has worked for the city for eight years and has overseen Minto's water and sewer improvement projects. He is a Grade III Water Treatment Operator and a Grade II Water Distribution, Wastewater Treatment, and Wastewater Collection Operator.

Frank Mosser, city of Maddock and Mike Brisben, NDDH.

Frank Mosser - City of Maddock

Frank started with the city as Maintenance Superintendent in April 1988. He is involved with the local fire department and has served more than 20 years with the local ambulance service. Frank is a Grade I Water Distribution, Wastewater Treatment, and Wastewater Collection Operator.

Alan Beyreis, city of Garrison and Mike Brisben, NDDH.

Alan Beyreis - City of Garrison

Alan started with the city in March 2004 and became the Garrison Waterworks Superintendent and City Maintenance Supervisor in April 2005. He currently serves as Vice Commander of American Legion Post 49 and is a member of the NDWPCC, ND Rural Water, and the NDWARN network. Alan is a Grade III Water Treatment Operator, a Grade I Water Distribution, Wastewater Treatment, and a Wastewater Collection Operator.

Michael Tank, city of Medora and Mike Brisben, NDDH.

Michael Tank - City of Medora

Mike is the City Superintendent and has been with the city of Medora the past 15 years. He is a Grade II Water Treatment Operator, a Grade I Water Distribution Operator, and a Grade IA Wastewater Treatment and Wastewater Collection Operator. Mike participates in the N.D. Operator Certification Program and is a member of the NDWPCC.

Putting Water To Work For You!

DSG

DAKOTA SUPPLY GROUP

For all the right connections!

Bismarck (855) 337-9258 • Fargo (800) 342-4676

www.dakotasupplygroup.com

EP ELECTRIC PUMP

Jeff Janiksela

4303 Bass Lake Road NE
Bemidji, MN 55601
952-758-6600
Fax: 952-758-7778
1-800-211-6432
Cell Phone: 612-867-6219
jeffj@electricpump.com
www.electricpump.com

Past Recipients: Operator of the Year Awards

2011

Kent Bickler, R&T Water Supply
Mike Houska, Grafton
Rick Larson, Rugby
William "Bill" McQuiston, Williston

2010

Wade Hesch, Valley City
Mark Peterson, Fargo
Donald Wald, Wahpeton
Keith Winson, Maddock

2009

Dennis Larson, Park River
Ken Miskavige, Grafton
Gary Neuberger, Beulah
Jason Sorenson, Minot

2008

Bill Gefroh, Bismarck
Steve Himmelspach, Mandan
Richard Jacobson, Hazen
Roy Hayes, Hazen

2007

Duane Golliet, Fargo
Raymond Peterson, Fargo
Terry Rust, West Fargo
Jerome Olson, Traill Rural Water District

2006

Kelly Berentson, Westhope
Jerry Imhoff, Elgin
Jay Haugen, Michigan

2005

Keith Olson, Harvey
Bob Weninger, Harvey
Ken Blilie, Kindred
Del Kindelspire, LaMoure

2004

Ron Hendrickson, Fargo
Pete Bilstad, Fargo
Delvin Stemen, Burlington
Mark Paddock, Burlington

2003

Rick Anderson, Central Plains Water District
Keith Fulsebakke, Bottineau
Don Horning, Zap

2002

Arlis Bischoff, Grafton
Allan Kraft, Cavalier
Doug Neibauer, South Central Regional Water District
Gary Zander, Mandan

2001

Verdeen Backstrom, Minnewaukan
Jerome Broz, Fairmount
Jack Knudson, Jamestown
Paul Lacina, Barnes Rural Water

2000

Tim Gjovig, Crosby
Jim Fixen, Alexander
Ed Rekkedal, Arvilla
Reuben Grosz, Bismarck

1999

Richard Wanner, Bismarck
Tom Sieg, Anamoose
Ron Kleven, Grafton
Bill Emerson, Minot

1998

Bill Link, Walsh Water Users
Ross Carter, Sherwood
Bob French, Bismarck
Terry Leingang, Riverdale

1997

Staff Members of the 348th Quartermaster Detachment (Water Purification) United States Army Reserve

Staff Members of the 136th Quartermaster Battalion North Dakota Army National Guard
Staff Members of the 119th Civil Engineering Squadron North Dakota Air National Guard

Operators of Grand Forks-Traill Water Users:
Randy Loeslie
Mike Thompson
Neil Breidenbach
Ray Rakoczy

Operators of Agassiz Water Users:
Gus Cronquist
Clark Cronquist

City of Grand Forks Water Treatment Plant Operators and Employees:

Brian Borden	Richard Jurgens
Jason Coyle	Rodney Kalis
Andy Job	Ken Mather
Greg Batzer	Robert Peterson
Steven Bolton	Wayne Tunseth
David Brose	Dan Tupa
James Evenson	Craig Lacher
John Ferguson	Steve Kolar
Larry Hadland	Linda Schumacher
Erik Johnson, Jr.	Hazel Sletten

City of Grand Forks Water Distribution Operators:

Ron Borden	Shirley Litchy
Darrel Danielson	John Scheffer
Robert Deitz	Mark Skow
Perry Hart	Peter Stoute
Jackie Heidrich	Randy Thompson
ichael Klemisch	Dwight Wurzbacher
David Kratochvil	Donald Zhorela
Dennis Kulas	

City of Grand Forks Wastewater Operators (Storm and Wastewater Departments):

Thomas Helle	Dennis Gunderson
Kenneth Stevenson	Edward Haskell
Peter Aamold	David Kresel
Dennis Dunn	Thomas Mikelson
Robert Fetsch	Lawrence Morrison
Duane Fontaine	Carl Sherlock
Gary Goetz	Richard Winkels

1996

Randy Seelig, Lisbon
Skip Rapp, Dickinson
Larry Thomas, Washburn
Gary Hager, Upper Souris Water Users

1995

Brad Moser, Medina
Les Sigette, McVille
Don Olafson, Valley City
Charles Jaszkowiak, Bismarck

1994

Gregg Christensen, Cass Rural Water Users
Gordon Johnson, North Valley Water Assoc.
Kerry Miller, Stanton
Virgil Sund, Oakes

1993

Jeff Huwe, Columbus
Clay Pettys, Lake Metigoshe Recreation Service Dept.
Richard Resell, Williston

1992

Dave Auch, Mandan
Joel Heitkamp, Southeast Water Users
Michael Schneider, Jr., Strasburg
Joseph Leo Tupa, Grand Forks

1991

Jim Moe, Devils Lake
Lyle Mitzel, Wahpeton
Joe Manning, Fargo
Howard Plum, Maddock

1990

Keith Demke, Bismarck
Rick Gillund, Enderlin
Greg Nordsven, Killdeer
Byron Thronson, Minot

1989

Ed Braunagel, Harvey
Greg Larson, R&T Water Supply
Ingram Opp, New Salem
Dale Townsend, Carrington

1988

David Burckhard, Minot
Ray Feltman, Minto
Dale Hanson, Valley City
Robert Job, Linton

1987

Don Erickson, Watford City
Dave Johnson, Washburn
Marvin Johnson, Jamestown
Harland Peterson, Carrington

1986

Dan Reiter, Minot
Larry Thelen, South Central Regional Water District
Bill Werle, Velva
Jerry Zander, Mandan

1985

Ray Foss, Hillsboro
Phil Furaus, Harvey
Francis Leintz, Lisbon
LaRay Reis, Lisbon
Dwight Wurzbacher, Grand Forks

1984

Larry Boepple, Halliday
Lester Carman, Bismarck
Joe Roshau, Killdeer
Beven Shaw, Williston

1983

Gary Armstrong, Rolla
Cliff D'Heilly, Neche
Virgil Houim, Rugby
Bud Lund, Bismarck
Arnonld Stokkeland, Cooperstown

1982

Fred Clark, Grafton
Harry Hanks, Beulah
Don Larson, Gwinner
Bill Mendewald, Hankinson
John Muus, Grand Forks

1981

Marvin Baska, Mohall
Alvin Carlson, Langdon
Al Swanson, Jamestown
Gene Thomas, McVille
Casper Volk, Rugby

houstoneng.com

Responding to your needs, not our schedule.

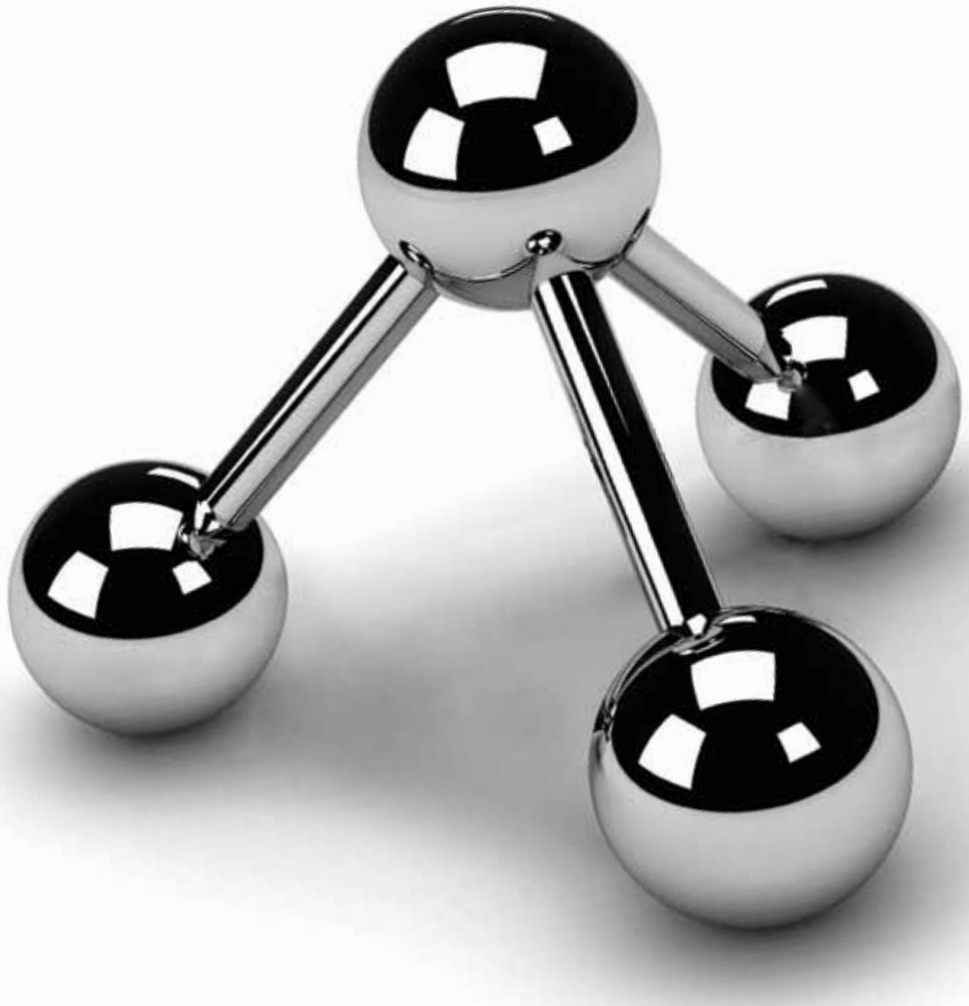
The 2011 Mouse River flood had a devastating impact on the City of Minot's water system. Flood waters contaminated the drinking water and left supply wells inoperative.

Houston Engineering staff were committed 24/7 to providing technical services for the community during this crisis, including:

- Emergency connection of water supply to avoid large scale evacuation
- Directional flushing to remove boil order
- Wellfield rehabilitation

During a time of need, you can count on Houston Engineering staff to be there until the job is done.

HoustonEngineering Inc.



ELEMENTS OF YOUR SUCCESS

Vision. Value. Passion. Integrity. Relationships. Attitude.

These elements make up the structure of AE2S. What does that mean to you? Extreme client service, trusted relationships, a shared vision for your future, and passion for every project. They all translate into your success.

Advanced Engineering and Environmental Services, Inc. (AE2S) Offices:
Bismarck Dickinson Fargo Grand Forks Minot Watford City Williston
Eagan Maple Grove Moorhead
Great Falls Kalispell
www.ae2s.com

WATER ENGINEERING
FINANCIAL/ASSET MANAGEMENT
INSTRUMENTATION & CONTROLS
ELECTRICAL ENGINEERING
CIVIL ENGINEERING
STRUCTURAL ENGINEERING
LAND DEVELOPMENT
SURVEY/MAPPING/GIS

AE2S®
Think Big. Go Beyond.

Serving North Dakota, in North Dakota, for 35 Years

CONTACT US FOR QUALITY ANALYTICAL AND SAMPLING SERVICES:

- ✓ Drinking Water
- ✓ Groundwater
- ✓ Surface Water
- ✓ Wastewater
- ✓ Biosolids
- ✓ Soil
- ✓ Solid Waste
- ✓ Waste Characterization
- ✓ Industrial Waste
- ✓ Priority Pollutants
- ✓ Crude and Brine Spills
- ✓ Wastewater Flow Studies
- ✓ Composite Sampling
- ✓ Rental of Flow Recorders and Sampling Equipment
- ✓ Field Sampling Services

MVTL

MVTL Laboratories, Inc.
2616 East Broadway Avenue
Bismarck, ND 58501
Phone: 800-279-6885; Phone: 701-258-9720; Fax:701-258-9724; Email: csc@mvtl.com

New Ulm, MN 800-782-3557

How Healthy is Your Distribution System?

Lydia Fewless, North Dakota Department of Health, Municipal Facilities

Good operation and maintenance of a water distribution system includes, at a minimum, some measure of planning and proactive effort to perform necessary upkeep on the pipes, storage tanks, and pumps that transport potable water from the water treatment plant to customers.

Activities common to a good operation and maintenance program include the following:

- Water main flushing
- Water main repair and/or replacement
- Storage tank maintenance
- Pump maintenance
- Cross connection control

Water Pipe Flushing

Distribution system water pipe flushing is performed to remove accumulated sediments or other deposits in the pipe. This flushing also improves the flow of water through the distribution system, allowing it to work at capacity. Flushing is performed by isolating sections of the distribution system and opening flushing valves, or more commonly fire hydrants, to cause large volumes of flow to pass through the isolated pipeline and suspend the settled sediment. Water mains also may be mechanically cleaned through the use of swabs or pigs which are devices that are pushed through a section of the water line to scrape accumulated debris from the inside of the pipe. Benefits of flushing include: removing aged water from the pipeline, reducing buildup of biofilms and sediments, and restoring disinfectant residual.

Photo by Bob Markhouse

Develop and initiate a systematic plan for flushing your water mains. The frequency of flushing will depend on the age of your lines and the quality of the water supplied by your system. That frequency will typically vary from every six months to once a year, more often in areas with water quality issues (e.g. dead ends).

> A properly maintained distribution system is important to ensure that you can provide high quality water to your customers, continue operating in the event of an emergency, help minimize property damage as a result of responding to an emergency, and help prevent contamination events. A properly maintained distribution system can also extend equipment life cycles and minimize problems related to minor or major equipment failures.

Water Main Repair/Replacement

Water mains must eventually be replaced or rehabilitated. Perhaps there are older areas with galvanized pipe that have significant tuberculation, or the frequency of breaks on a main may indicate it is time to replace the entire main. Whatever the triggering event, a water system should have a plan for repair and replacement. Critical to any repair and replacement work is the need to ensure that the piping is properly flushed and disinfected.

Pump Maintenance

Pump maintenance must be performed by a water system to ensure booster and other distribution systems pumps stay in working order. Maintenance of the pumps involves checking the pumps regularly for excessive vibration, noise, heat, and odor; providing regular lubrication; checking the pump bearings; and packing glands. Check for normal wear, as this can extend the useful life of infrastructure components and help avoid unnecessary replacement or operational costs.

Meters

Metering provides many benefits, one of which is tracking unaccounted water loss. Identifying leaks, breaks, stolen water, and inaccurate meters can prevent waste (through excessive use of water) and thereby reduce water consumption. A leak detection program is essential for the entire water system. This in turn can reduce pumping and treatment costs for a water utility. the recommended frequency for checking meters is (1) daily at the source and (2) monthly or during routine meter reading at customer connections.

Storage Tank Maintenance and Inspections

This activity requires scheduled inspection and occasional repairs. The most frequent types of maintenance include: physical tank inspection (both internal and external); cleaning and repainting; and replacing screens over vents and other potential points of access to insects, birds, and rodents. Tanks need to be inspected and cleaned annually. Stagnant water in a tank can contribute to low distribution chlorine residuals, taste and odor complaints, coliforms, and higher disinfection byproduct levels (DBPs). Benefits of storage tank maintenance and inspections include: detecting vandalism; identifying defects; ensuring that access hatches are locked; ensuring that vents, overflows, and drains are screened; improving protection against sources of contamination; and extending the useful life of the equipment. Recommendations are to check daily for vandalism, usually inspect the exterior of water storage tanks every year, and the interior every three years.

Photo by Bob Markhouse

Tanks should be painted on an "as-needed" basis, whether outside and/or inside based on the inspection results. The cost should be budgeted like any other maintenance cost.

Cross Connection Control

Cross connection control is an operational program which the water system and its customers implement to prevent contaminated water from being drawn into the distribution system. Cross connections are physical connections between potable water and any hazardous fluid or liquid of unknown quality. Cross connections can threaten water quality and public health through backflow or backsiphonage problems. Backflow is a flow reversal due to high pressure, such as when boiler feed water is forced back into a building's plumbing system. Backsiphonage is the reverse flow of fluid because of low or negative pressure, such as a distribution system pressure drop due to extremely high water demands (e.g., water main breaks or fire fighting demands). The water supplier is responsible for maintaining the operating pressure range of the distribution system. Benefits of this continuous task will be reducing the risk of backflow contamination, helping your system provide better service to your customers, reducing damage to infrastructure due to excess pressure, and providing adequate fire flow. Implementation of cross connection programs are shared by water suppliers, water users, health agencies, and plumbing officials. Education, inspection, and enforcement are necessary to ensure compliance with building codes and regulations.

Distribution systems consist of:

- Piping and fittings
- Pump and pump stations
- Meters
- Storage tanks
- Backflow prevention devices
- Hydrants and valves

Hydrant and Valve Inspection and Maintenance

A comprehensive program of inspection, exercising, and maintenance of valves and hydrants on a regular basis can help water utilities avoid potentially serious problems when the need to use a valve or hydrant arises. Inspecting and flushing hydrants and valves ensures hydrants and valves are operable, that no water losses occur, and that they are not susceptible to tampering. Valve exercising improves reliability, familiarizes operators and their crews with valve location, identifies inoperable valves, locates obstructed valve boxes, and ensures isolation of distribution sections when necessary. In general, a suggested frequency for inspecting, maintaining, and exercising hydrants and valves is once or twice per year.

Photo by Bob Markhouse

Water Quality Monitoring

Many conditions exist that could result in degradation of water quality in the distribution system. System operators must be aware and take corrective or protective measures to ensure the highest water quality for their consumers. Performing routine water quality monitoring, (chlorine monitoring, pH, and temperature) as it relates to the treatment processes will provide valuable information on potential contamination and indicate water quality for both raw and finished water. These also help determine effectiveness of treatment and assure the compatibility of the water with the chemicals and materials used in the treatment process. Testing for the presence of excess biofilms, done monthly in conjunction with the total coliform sampling, indicates a presence of inadequate chlorine residual, possible high disinfection byproducts, and water stagnation. Another consideration for operators is monitoring corrosion, which identifies the need to modify treatment or conduct flushing.

Photo by Bob Markhouse

Record keeping

In order to be able to follow the performance of your water treatment processes and distribution system, it is necessary that all relevant records and data are collected, recorded, and kept on file. Apart from keeping track of information, these records and data are also valuable for troubleshooting and may be needed in the cases of warranty claims. An operator needs to keep accurate and complete records of treatment operations and distribution system sampling and submit required reports to the state in accordance with the Safe Drinking Water Act. This includes all results of sampling conducted within the water system and necessary plan and specifications for improvements and/or modifications.

Maintenance Questions

- How do you plan for distribution system maintenance expenses? Do you have a proactive maintenance plan and budget; or do you postpone maintenance, in effect choosing to fix and pay when infrastructure fails?
- Do you perform periodic tank inspections and cleanings?
- Do you have a valve exercise program and, in fact, exercise your valves on a periodic basis?
- Have you identified and mapped your valves in order to isolate major sections of your distribution system in the event of an emergency?
- Have you identified those older sections of your distribution system that need to be replaced? Moreover, do you have a budget in place to fund these replacements?
- Do you have a systematic program to flush your water mains on a periodic basis, or do you flush only when you have to?
- Do you have (and keep up-to-date) an accurate set of as-built plans of your distribution system?

Given the increased focus of regulators and consumers on the quality of water in the pipes, it is no surprise that the next regulatory focus will be on developing new rules directed at the distribution system. Performing even minimal distribution system maintenance will result in positive cost savings to the utility and increased reliability. Additional resources for operators are available at the following websites:

http://www.10statesstandards.com/waterrev2012.pdf

http://www.owp.csus.edu/courses/drinking-water/water-distribution-system-operation-and-maintenance.php

TONKA WATER TREATMENT SYSTEMS
Phone: (763) 559-2837
Fax: (763) 559-1979
E-Mail: tonka@tonkawater.com
Website: www.tonkawater.com
TONKA EQUIPMENT COMPANY
P.O. BOX 41126
13305 WATERTOWER CIRCLE • PLYMOUTH, MN 55441

NDWEA 53rd Annual Meeting Minutes

October 16, 2012

The North Dakota Water Environment Association (NDWEA) held its annual business meeting on Wednesday, October 16, 2012 at the International Inn in Minot North Dakota. Don Tucker called the meeting to order; 168 people were present at the 11:30 a.m. business luncheon.

The minutes for last year's meeting were published in the *Official Bulletin*. President Tucker asked if there were any objections to dispensing with the reading of the minutes. There were no objections, and Terry Rust made a motion to dispense with the reading of the minutes. Pete Bilstad seconded the motion and the motion passed. Eric Dodds moved that the minutes be approved as published. Karla Olson seconded the motion. There was no further discussion on the minutes and the motion passed.

Bill Gefroh was called upon by President Tucker to present the Secretary-Treasurer's report. As of September 30, 2012, the association has a general fund balance of $4,853.80. Last year on September 30, 2011 the balance was $4,116.87, an increase of $736.93 from last year. The NDWEA membership is at 128, last year at this time it was 143. Mark Blonigen made a motion to approve the Treasurer's report. Eric Dodds seconded the motion and the motion passed.

The NDWEA promotes advancing the fundamental knowledge and education of the water environment with expenditures aimed at environmental activities that promote pollution prevention, resource recovery, preservation, and conservation.

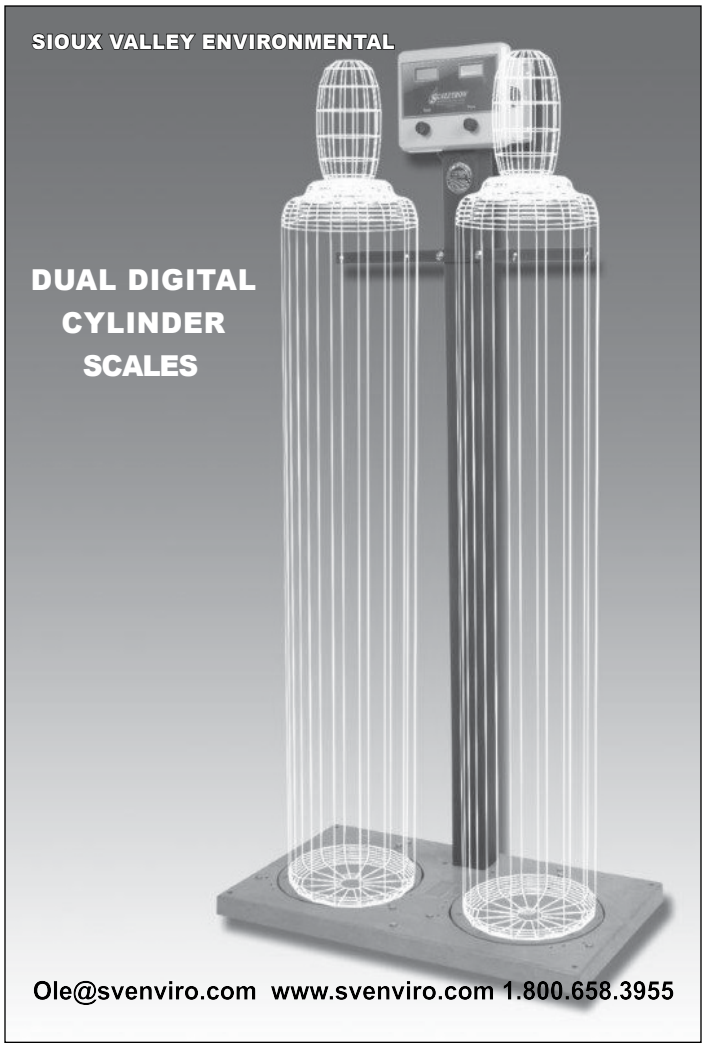
In 2012, the NDWEA contributed monetary support to:

1. The North Dakota State Science & Engineering Fair by providing two award checks for $75: one to Brittany Dixon, Oak Grove School District, "Pollutant Effects on Daphnia" in the junior division, and one to Gage Metzen with Hankinson School District, "Impact of Field Drainage Tile on River Water Quality" in the senior division. NDWEA contributed $1046.20 for the cost of the airline tickets for Gage Metzen and his teacher Marcus Friskop from Hankinson High School to participate at the national Stockholm Junior Water Prize held in Boston, Massachusettes on June 14-16, 2012.
2. The Student Chapter at the North Dakota State University (NDSU) in Fargo and the University of North Dakota (UND) in Grand Forks for their activities fund, $500 to help with expenses that occur with their participation in the student design competition at the Water Environment Federation **Technical Exhibition and Conference** (WEFTEC) that was held in New Orleans, Louisiana September 29 – October 3, 2012.
3. The Gateway to Science Center in Bismarck, Environmental Festival, $250
4. The River Keepers in Fargo, Environmental Festival, $250
5. Drinking water week advertisement, $441.45
6. The Water Environment Research Foundation, $100

Awards that were sponsored by the NDWEA in 2012 include two high school awards, one each for the junior and senior divisions for outstanding water quality projects at the North Dakota State Science and Engineering Fair. The Water Environment Federation (WEF) Hatfield Award presented to Steve Himmelspach and Bedell Award presented to Eric Dodds at the Conference banquet and the NDWEA President Service Award.

President Tucker introduced the guest speaker, Mr. Ed McCormick, the WEF vice president. Mr. McCormick thanked the conference attendees for their hospitality on his first visit to Minot, North Dakota. He read an interesting tidbit about Minot online, during the Prohibition in the 1920s where Minot was nicknamed "Little Chicago," as it was a supply hub of Al Capone's liquor smuggling operations. After some laughter, Mr. McCormick indicated how impressed he is with the level of engagement and involvement that the NDWEA has with the NDSU and UND student chapters and the collaboration across all levels. He mentioned NDWEA member Eric Dodds who has done much work with WEF where he is a WEF delegate and the chair of the WEF Student & Young Professionals Committee.

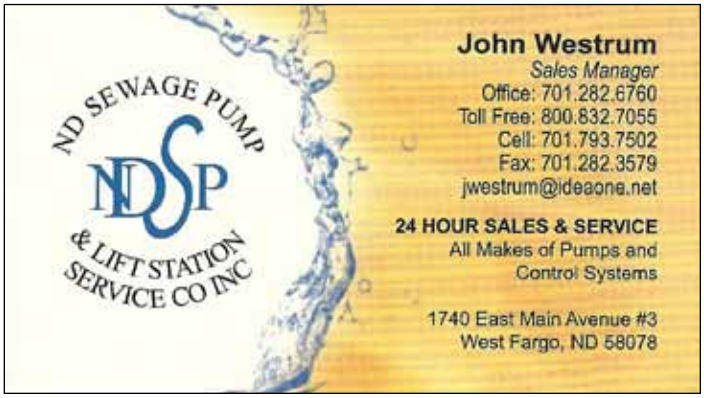
Mr. McCormick talked about the WEF and areas that the WEF is working on, such as, its new strategic direction, governance changes to become more nimble, key alliances, and an energy roadmap. WEF is moving from treating wastewater to rebranding it, turning wastewater into green factories and into useful products. WEF's new mission is to provide bold leadership, champion innovation, connect water professionals, and leverage knowledge to support clean and safe water worldwide. WEF initiatives include: driving innovations in the water sector, enriching the expertise of the global water professionals, advancing WEF's platform for knowledge exchange and increasing the awareness of the value of water. We need to do a better job of marketing ourselves. Wastewater treatment plants are water resource recovery facilities. Some of the key alliances that WEF is working with are the American Water Works Association, WEF committees, EPA, the Water Environment Resource Foundation, Water For People, European Water Association, Japan Sewage Works, and others.



President Tucker called upon Seth Lynne, from the Nomination Committee, to present the NDWEA nominations. The Nominating Committee members were Seth Lynne, Eric Dodds, and Karla Olson. Mr. Lynne reported that the Nomination Committee has nominations for the incoming NDWEA Vice President, Jessica Wagner and Incoming Delegate, Karla Olson. President Tucker asked if there were any further nominations from the floor. No nominations were offered. Mr. Lynne nominated the following NDWEA slate of officers for 2012/2013:
President: Wei Lin
President-Elect: Jessica Wagner
Vice President: Karl Rockeman
Secretary-Treasurer: Bill Gefroh
Delegate: Bill Gefroh, 3rd year of three-year term
Incoming Delegate: Karla Olson
Professional Wastewater Operations: Wayne Offerdahl, 3rd year of three-year term
Past President: Eric Dodds
Past President: Karla Olson
Past President: Don Tucker
Pete Bilstad moved that the nominations be closed and a unanimous ballot be cast for the nominated slate of announced officers. Eric Dodds seconded the motion and the motion passed.

At this time, President Wei Lin became the Chief Officer of the NDWEA. His first duty as President was to present Don Tucker with the President's Service Award. With no further business President Lin asked for a motion to adjourn. Karla Olson made a motion to adjourn. Seth Lynne seconded the motion and President Lin adjourned the meeting.

Respectfully submitted,
Bill Gefroh
Secretary-Treasurer



2012 Arthur Sidney Bedell Award Winner - Eric Dodds

Eric C. Dodds, AE_2S (left) and Ed McCormick, WEF Vice President.

The Arthur Sidney Bedell Award was established to acknowledge extraordinary personal service to a member association. The award is named for Arthur Sidney Bedell, the second president of the Water Environment Federation (WEF) who exemplified its purpose by his long devotion and service to the New York Water Environment Association.

Eric has been a very active member at the national level with WEF and at the state level with the North Dakota Water Environment Association (NDWEA). Eric is the chair of the WEF Students and Young Professionals Committee and Student Affairs Committee, a WEF delegate, and an active member of many other WEF committees. He is a past president of the NDWEA and is active with the North Dakota State University (NDSU) and University of North Dakota (UND) student chapters. Eric is a leader among the new generation of water environmental professionals, providing education and mentoring to young professionals and students at NDSU and UND. He provides great support and guidance to the NDWEA student chapter members on their WEF design projects. In 1999, Eric graduated from NDSU with a Bachelor of Science degree in Civil Engineering, and in 2001 with a Master's of Science degree in Environmental Engineering. Currently, Eric works for Advanced Engineering and Environmental Services as the Operational Manager at the Fargo and Moorhead offices.

APWA 2013 Project of the Year Nominations

The North Dakota Chapter of the American Public Works Association (APWA) is soliciting nominations for the "2013 Project of the Year" Awards.

Any public works projects, defined as the physical structures and facilities that are developed, owned, and maintained by public agencies to provide water, power, waste disposal, transportation, and similar public services in accordance with established public policy, are eligible.

Criteria to be used in the selection process include demonstrating good construction techniques, safety, community relations, protecting the environment, unusual accomplishments, and additional conditions deemed important to the public works agency.

Award recipients and their engineer will receive an APWA "Project of the Year" recognition plaque presented at the Banquet of the North Dakota Water and Pollution Control Conference scheduled to be held in Grand Forks on October 23, 2013. Each project is eligible for nomination for the National APWA "Public Works - Project of the Year" competition. An award will be presented to one project serving a community of less than 5,000 and to one project serving a community of more than 5,000 people. Nominations are due by May 3, 2013.

Submissions for consideration or questions concerning nominations should be addressed to:

Dan Jonasson
City of Minot
1025 31st Street SE
Minot, ND 58702-5006
701-857-4112
dan.jonasson@minotnd.org

APWA Executive Meeting Minutes

October 16, 2012, Viking Room, Grand International Inn, Minot, North Dakota at 8:00 a.m.

Call to Order: By President Dan Jonasson

Present: Dan Jonasson, Lance Meyer, Chuck Abel, Terry Boehm, Jeff Heintz, Chad Zander

Approval of Minutes: Motion by Lance M.; second by Chad Z.

Treasurer's Report: Checking account beginning balance 2012 of $15,562.87. Revenue to date = $2,473, Expenses to date = $4,894, Net to date = -$2,422
Total Checking balance to date = $13,141.43

Merrill Lynch: Begin 2012 = $15,250.33, September 28, 2012 = $16,295.68 Gain of $1,045.35

Motion by Chad Z; second: By Jeff H.; all approved.

Delegate Report: Report by Lance Meyer stated that Brian Van Norman, Director of Chapter Relations for APWA, will be the guest speaker for the Wednesday lunch. Mr. Van Norman is from Kansas City, MO.

Lance went to the national convention in California in August. He learned about the goal of reaching 30,000 members. To reach this goal North Dakota will have to attain four more members. The national website is scheduled to unveil a new up-to-date website that members can use to update data such as upcoming events, minutes, agendas, and so on. National does want our agendas, minutes, and so on. Chuck is currently sending them to Rhonda W. who then forwards them on. The intent is to allow chapters to follow each other.

Next year (2013) the national convention is in Chicago and in Phoenix the following year (2014)

Committee Reports: ND Chapter APWA 2012 Project of the Year Awards – Shawn Soehren not present. Dan will present awards. Large project is the Public Works Facility - Grand Forks project with EAPC. Small project is the Collection System - Minto project with AE_2S. Awards to be presented at the banquet program on Wednesday evening.

Budget Committee: Terry Boehm. Chuck presented the 2013 Budget with total revenues of $5,385 and total expenses of $4,515 for a net income of $870. Local chapter will reimburse for the guest speaker's motel room and other travel expenses as necessary. Motion by Lance M.; Second by Terry B.; all approved

Old Business: Chad Z. will meet with NDSU college students very soon to encourage memberships by paying half of dues and possible reimbursement of expenses for travel costs for field trips and so on. Would be goal to get APWA on the student logo. Chad Z. will check.

New Business: 2013 Executive Committee Nominations - Shawn Soehren

Nomination of Officers for 2013:

President	Chad Zander
Vice President	Terry Boehm
Secretary/Treasurer	Lance Meyer
Executive Secretary	Chuck Abel
Delegate	Lance Meyer
Past President	Dan Jonasson
Director	Walt Smith
Director	Jeff Heintz
Director	Rick Gillund
Director	Dustin Scott

Moved by Chuck; seconded by Jeff; all approved

Other New Business: Leadership training is highly recommended by Dan Jonasson and suggested to send at least two or three people. The training is in Kansas City again. Next session is February 28 to March 2, 2013.

Chuck A. said that the membership packages will be available at the booth. Membership application is available on website. Lance M. suggested sending an email of a pdf of the application form to the local consultants. We need to encourage new memberships to

Apex Engineering Group
Fresh thinking. Practical solutions.
www.ApexEngGroup.com | info@ApexEngGroup.com

help meet the national goal. The North Dakota chapter only needs a few new members. The cost is $164 per individual and benefits include continuing education units (CEUs) at no additional cost Click, Listen, and Learn is the website location for details about CEU's.

Dan suggested looking into when other states have their local chapter meetings and possibly attend those meetings to compare functions, committees, and other aspects of those chapters. Possibly have a joint meeting.

Adjourn: Motion by Chad Z. Seconded by Jeff H.

Ed McCormick, WEF Vice President

Ed McCormick is the 2012-2013 vice president of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Virginia.

Ed is the manager of Wastewater Engineering for the East Bay Municipal Utility District (EBMUD) in Oakland, California, an internationally recognized public water/wastewater utility serving 1.4 million customers. Ed is responsible for EBMUD's wastewater capital program, energy management, engineering, construction, information systems, and public outreach. He has overseen the engineering, construction, and startup of more than $1.6 billion in wastewater and water capital infrastructure. Ed's leadership helped EBMUD to become the first wastewater utility in North America to be a net producer of renewable energy. Ed spearheaded the creation of the California Association of Sanitation Agencies' (CASA) Biosolids Program, (California's first statewide biosolids management advocacy program), and he pioneered the first-ever large scale Food Waste-to-Energy Project at a U.S. treatment plant, winning a U.S. EPA Environmental Achievement Award. He was also project manager of the landmark West Coast Benchmarking Study of seven major wastewater agencies totaling over 10 million customers. He led the development of EBMUD's Water Recycling Program from 0.2 mgd in 1996 to a 9 million gallons per day enterprise.

A member since 1997, Ed has held multiple leadership roles at WEF. He served previously on the Board of Trustees (2008-2011), in the House of Delegates, and as chair of the Utility Management Committee, and vice chair of the Long-Range Planning Committee. He also served on the steering group for the Committee Leadership Council and on the House of Delegates Strategic Planning Workgroup. He is also a member of the California Water Environment Association (CWEA) and the San Francisco section of CWEA.

Ed is the recipient of the American Society of Civil Engineers' Construction Manager of the Year Award (1996), JFK University's Award for Outstanding Leadership in Management (1989), and EBMUD's Management Excellence Award (2005). He was inducted into the Select Society of Sanitary Sludge Shovelers of the California Water Environment Association.

Ed holds a Master's degree in Environmental Engineering from the University of California at Berkeley, a Master's degree in Public Administration (MPA) from JFK University, and a B.S. degree in Civil Engineering from the University of Massachusetts, Lowell. He is a licensed civil engineer in the state of California, a Certified Value Engineer, and a trained WEF/AWWA QualServe Peer Reviewer, having performed peer reviews for agencies including Guam Water Works and the Columbus Water Works in Georgia.

2012 WFP Sponsors

water for people

Platinum Sponsors

AE2S

Apex Engineering Group

Bartlett & West, Inc.

KL&J

Ulteig Engineers, Inc.

Gold Sponsors

DN Tanks

Hawkins Water Treatment Group

Jet-Way Multiple Services, Inc.

Moore Engineering, Inc.

Quality Flow Systems, Inc.

Vessco, Inc.

Silver Sponsors

Ackerman-Estvold Engineering

Energy & Environmental Research Center

Engineering America, Inc.

The Ford Meter Box Company

Grand Forks Water Utility

Hazel & Tom Sletten

Interstate Engineering, Inc.

KLM Engineering, Inc.

Mercer Engineering, PC

MVTL Laboratories, Inc.

S. Roberts Company

Sweeney Controls Company

Team Lab

Wenck Associates, Inc.

West Fargo Public Works

Wells Concrete

Wold Engineering, PC

A World Where No One Suffers or Dies from a Water- or Sanitation-Related Disease

On behalf of the North Dakota Section of the American Water Works Association (NDAWWA) and its Water For People (WFP) Committee, thank you very much to all who made generous contributions during the 2012 North Dakota Water and Pollution Control Conference held in Minot in October. All donations, whether as a 2012 Golf Sponsorship, through this year's raffle, or purchase of golf mulligans, are appreciated.

Sustainability and community ownership are the hallmarks of WFP's programs in Central America, South America, Asia, and Africa. Contributions allow WFP to use water as a catalyst for change by helping people in the developing world address their own basic water and sanitation needs. Through access to safe drinking water and improved sanitation, communities are able to take a critical step out of poverty and into a brighter future.

Water For People could not reach these communities without the support of friends. Altogether, WFP raised $4400 through the Golf Sponsorship at the Platinum, Gold, or Silver level; $1500 in donations through this year's raffle; and $305 through the purchase of golf mulligans. An additional $1,000 was donated by the NDAWWA bringing the total contribution from North Dakota to WFP to $7,205.

Thank you to all who contributed and for sharing the gift of life. NDAWWA appreciates the support.

CAVIN NODDINGS, PE, LEED AP
MANUFACTURER'S REPRESENTATIVE
MISHLER SALES
547 S. 20th Street West, Ste. 1
Billings, MT 59102
P.O. Box 81348
Billings, MT 59108
Corporate Email: mishler@wtp.net
PHONE: 406-633-2316
FAX: 406-633-2650
cavin@mishlersales.com

2012 William D. Hatfield Award Winner - Steve Himmelspach

Steven Himmelspach, city of Mandan (left) and Ed McCormick, WEF Vice President.

The William D. Hatfield Award is presented to operators of wastewater treatment plants for outstanding performance and professionalism. The award was established in honor of Dr. William D. Hatfield, superintendent of the Decatur, Illinois Sanitary District, who was president of the Central States Sewage Works Association in 1944-45 and served as president of the federation in 1958-59. A recipient must be a member of the Water Environment Federation, have a successful system of reports from the operators to their superiors, provide the operators with a forum for improvement suggestions, have a good public relations program, and have contributed to the dissemination of information concerning advancements in the field.

Steve began his career in the wastewater industry in 1987 as a custodian with the city of Mandan. He was promoted in 1989 to an equipment operator at the Mandan Wastewater Treatment Plant and to superintendent in 1994, the position he currently holds. In 1998, Steve received his Class IV Wastewater Operator Certification. Steve joined the North Dakota Water Environment Association (NDWEA) in 1992, where he has served as the NDWEA Professional Wastewater Operations Regional Council representative. He is actively involved in NDWEA Industrial Pretreatment Program training activities and has participated on panel discussions at the North Dakota Water and Pollution Control Conference. Steve is a member of the American Public Works Association and the EPA Region 8 Pretreatment Association.

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

WIDSETH SMITH NOLTING

WidsethSmithNolting.com

engineering | architecture | land surveying | environmental services

alexandria | baxter | bemidji | crookston | grand forks | red wing | rochester

KLJ

understanding the parallel
relationship between
water and development

kljeng.com

National perspective.
Regional expertise.
Trusted advisor.

2012 Conference Resolutions

RESOLUTION

WHEREAS, considerable time is expended by the Municipal Facilities and Water Quality Divisions of the North Dakota Department of Health in furthering Conference development, aims, and purposes;

NOW, THEREFORE, BE IT RESOLVED that the 84th Annual Conference of the North Dakota Water and Pollution Control Conference, the 53rd Annual Conference of the North Dakota Water Environment Association, the 57th Annual Conference of the North Dakota Chapter of the American Public Works Association, and the 22nd Annual Conference of the North Dakota Section of the American Water Works Association, here assembled, do express their heartfelt thanks and appreciation to the North Dakota Department of Health for the work that has been done, and especially to the Municipal Facilities and Water Quality Divisions for furthering the activities of the Conference, for their work on the *Official Bulletin*, and for their assistance in organizing the Water and Wastewater Operator Training Sessions each year.

Dated at Minot, North Dakota, this 18th day of October 2012.
Secretary/Treasurer

RESOLUTION

WHEREAS, the city of Minot through their Officials and Local Arrangements Committee has gone to considerable work and effort in making this Joint Meeting with the North Dakota Chapter of the American Public Works Association, the North Dakota Water Environment Association, and the North Dakota Section of the American Water Works Association not only a successful one, but an enjoyable one, especially through the spirit of welcome and friendliness shown, the splendid hospitality, banquet, and other arrangements:

NOW THEREFORE, BE IT RESOLVED, that the 84th Annual Conference of the North Dakota Water and Pollution Control Conference, the 53rd Annual Conference of the North Dakota Water Environment Association, the 57th Annual Conference of the North Dakota Chapter of the American Public Works Association, and the 22nd Annual Conference of the North Dakota Section of the American Water Works Association, here assembled, do express their heartfelt thanks and appreciation to the following individuals who have contributed toward making the Joint Meeting a success:

Jason Sorenson
Dolly Mickelson
Dan Jonasson
Lance Meyer
Dave Burckhard
Rick Hair
Mark Vollmer

Dated at Minot, North Dakota, this 18th day of October 2012.
Secretary/Treasurer

RESOLUTION

WHEREAS, considerable time has been expended and expense incurred by Tracy Eslinger of Moore Engineering in his position as Associate Director of the North Dakota Water and Pollution Control Conference during the past year, and in making this Joint Meeting with the North Dakota Water Environment Association, the North Dakota Chapter of the American Public Works Association, and the North Dakota Section of the American Water Works Association both a successful and enjoyable one;

NOW, THEREFORE, BE IT RESOLVED that the 84th Annual Conference of the North Dakota Water and Pollution Control Conference, the 53rd Annual Conference of the North Dakota Water Environment Association, the 57th Annual Conference of the North Dakota Chapter of the American Public Works Association, and the 22nd Annual Conference of the North Dakota Section of the American Water Works Association, here assembled, do express their heartfelt thanks and appreciation to Tracy and that the Secretary be instructed to forward to him a copy of this Resolution.

Dated at Minot, North Dakota, this 18th day of October 2012.
Secretary/Treasurer

RESOLUTION

WHEREAS, the North Dakota Water and Pollution Control Conference in its annual business meeting recognizes that the Water and Wastewater Operators Training Sessions sponsored jointly by the Conference, the North Dakota Water Environment Association, the North Dakota Chapter of the American Public Works Association, the North Dakota Section of the American Water Works Association, and the North Dakota Department of Health were very successful and were of benefit to those attending and that the sponsoring organizations are desirous of continuing these training sessions;

NOW, THEREFORE, BE IT RESOLVED that the 84th Annual Conference of the North Dakota Water and Pollution Control Conference, the 53rd Annual Conference of the North Dakota Water Environment Association, the 57th Annual Conference of the North Dakota Chapter of the American Public Works Association, and the 22nd Annual Conference of the North Dakota Section of American Water Works Association, here assembled, do express their thanks and appreciation to the North Dakota Department of Health and the staff of its Municipal Facilities and Water Quality Divisions, who have contributed toward making these training sessions a success.

Dated at Minot, North Dakota, this 18th day of October 2012.
Secretary/Treasurer

2012 Operator's Meritorious Service Award

Gene Koontz, vice president, American Water Works Association (left), and Kenneth Miskavige, city of Grafton.

Kenneth Miskavige, Superintendent of the Grafton Water Department, is the recipient of the 2012 American Water Works Association Operator's Meritorious Service Award. Miskavige has been in the water industry since 1977. Over the years, he worked his way up from Operator I to superintendent by maintaining excellent quality and operations in the water department and out in the community. He has:

- maintained continuous compliance with public health standards in finished water;
- ensured efficient operation and maintenance of equipment;
- modernized, when appropriate, to improve efficiency and effectiveness of treatment;
- trained co-workers;
- maintained consistent operation of distribution lines, pump stations, and reservoirs; and
- has gone above and beyond the call of duty to benefit his community.

He joined AWWA in 1991 and received the 2009 Operator of the Year Award from the North Dakota Department of Health.

He is a member of the North American Versatile Hunting Dog Association, Red River Valley and Central Dakota Chapters, a past member of the Blue Line Club and Grafton Boosters, and a member of St. John's church.

Kenneth created what is informally referred to as "Kenny Clean-Up Day" in Grafton. This is one day in the spring where all citizens are encouraged to clean entrances, ditches, and parking lots after the snow thaws. Truckloads of garbage are cleaned up and hauled to the landfill.

He takes great pride in his community, often goes beyond the responsibility of the water department, and produces a quality product and exceptional service on a continual basis.

Sletten Wins Fuller Award

Gene Koontz, vice president, American Water Works Association (left), and Dean Sletten, Moore Engineering.

Dean Sletten is the 2012 recipient of the American Water Works Association (AWWA) George Warren Fuller Award. Dean works as a senior project engineer for Moore Engineering in West Fargo, North Dakota. The award is presented annually to an AWWA member for his/her distinguished service to the water supply field in commemoration of the sound engineering skill and constructive leadership which characterized the life of George Warren Fuller. Dean just completed his term as past-chair of the NDAWWA Board of Trustees, which is his last position within a seven-year commitment to NDAWWA. He has also served as the section's Membership Committee chair for several years, is actively involved with the student chapters, and advocates for AWWA across the state through face-to-face time with association and potential members.

NDAWWA Recognizes Students in Fresh Ideas Poster Competition

(Left to right) Leslee Storlie, NDSU; Michael Quamme, NDSU; Ruchi Joshi, NDSU; and Meredith Quinn, AE_2S.

The North Dakota Section of the American Water Works Association (AWWA) took part in the AWWA Fresh Ideas Poster Competition for the third year in a row at the Minot NDWPCC. The competition took place Wednesday morning in partnership with the vendors' exposition. The top poster winner receives free registration for the AWWA Annual Conference and Exposition (ACE) in Denver, Colorado in June of 2013 from AWWA, as well as $1,500 from NDAWWA toward travel expenses.

At ACE, the North Dakota poster winner will compete in the AWWA poster competition. Due to the extra driving distance from the two North Dakota universities to Minot, participation was down this year; however, there were three strong candidates for the award. This year's winner was Leslee Storlie, NDSU Masters graduate student with a project titled "An Investigation into Bromate Formation in the Ozone Disinfection Process." Good luck to Leslee in Denver next June!

1st Place Leslee Storlie, NDSU: "An Investigation into Bromate Formation in the Ozone Disinfection Process"
2nd Place Michael Quamme, NDSU: "Aqueous Selenium Removal Using Bare and Entrapped Iron Nanoparticles"
3rd Place Ruchi Joshi, NDSU: "Cryptosporidium: A Stubborn Water Contaminant"

27TH ANNUAL EXPO - ND RURAL WATER SYSTEMS ASSOCIATION
February 12-14, 2013
Best Western Ramkota – Bismarck
Tentative Agenda

Tuesday, February 12, 2013
WATER DAY AT THE LEGISLATURE

8:00 am Pre-conference Tour
1:30 pm OPENING CEREMONY
Official Opening – Keith Nilson, President of NDRWSA
Special Guest – Gov. Jack Dalrymple (unconfirmed)
Special Guest – Jasper Schneider, State Director, USDA Rural Development (unconfirmed)
Welcome to Bismarck – Terry Harzinski, Bismarck Convention and Visitors Bureau
Keynote Address – John Bearman, NDRWSA National Representative
Motivational Speaker – Kristi Pfliger-Keller, *A College Degree in Under One Hour*
3:00 pm Exhibit Hall Opens
4:30 pm Meter Assembly Competition Preliminary Round – NDRWSA Booth, Exhibit Hall
5:00 pm Legislative Reception and Exhibitor Appreciation in the Exhibit Hall

Wednesday, February 13, 2013

7:45 am Breakfast in the Exhibit Hall
8:30 am CONCURRENT SESSIONS
Board of Directors Track: Roundtable Discussions
Operation & Maintenance Track: Exhibitor Demonstrations – Exhibit Hall
11:00 am Meter Assembly Final Round – Exhibit Hall
11:30 am Exhibit Hall Prize Drawings
12:00 pm Exhibit Hall Closes
12:00 pm Deli Buffet Luncheon in the Exhibit Hall
1:00 pm THREE CONCURRENT SESSIONS
Rural Development Track: 1926b Refresher & Engineering Requirements for RD Water & Wastewater Loans/Grants Applications
Operation & Maintenance Track: Current O&M Topics
Management Track: Setting and Selling Rates to the Public
Water Audit Class
5:30 pm Social Hour
6:30 pm Awards Banquet
Awards Ceremony – Honoring the Best in the Business
Corporate Elite & Diamond Sponsor Recognition
2013 Water Taste Contest Final Judging
Scholarship "Live" Auction

Thursday, February 14, 2013

7:45 am Breakfast Buffet
8:30 am THREE CONCURRENT SESSIONS
SRF Track: SRF 101
Operation & Maintenance Track: Current O&M Topics
Safety Track: Defensive Driving (Session starts at 7:45 am)
11:45 pm **CLOSING SESSION and GRAND PRIZE DRAWING**

Visit www.ndrw.org or call 701.258.9249 for additional information or to register.
A block of rooms has been reserved under ***Rural Water*** at the Best Western Ramkota Hotel 701.258.7700.

FGOH2O INC.

FARGO WATER EQUIPMENT

At Fargo Water Equipment, we represent Major Manufacturers of Pipe, Underground Valves, Fittings and Hydrants as well as Process Plant Piping and Valves.

Locally Owned and Operated Since 1962

www.fgoh2o.com

4557 15th Avenue North • Fargo, ND 58102
Phone (701) 237-0222 • Fax (701) 237-9609
Toll Free (800) 437-4034

ELECTRIC PUMP

Proudly Serving the Municipal/Industrial Water and Wastewater Market in: Iowa, Illinois, Minnesota, Nebraska, North Dakota, South Dakota and Western Wisconsin

Des Moines, IA
515-265-2222 / 800-383-PUMP (7867)

New Prague, MN
952-758-6600 / 800-211-6432

Fargo, ND
701-293-0204

Omaha, NE
800-383-7867

www.electricpump.com

Factory authorized shop and field service for all products offered

Process Equipment is offered by EPI Environmental.

Please see the website at www.epi-environmental.com

Two North Dakota Students Receive Awards at ACE 12

Congratulations to Tanush Wadhawan and Leslee Storlie from the North Dakota Section of AWWA (Section) for outstanding achievement recognized at the AWWA Annual Conference and Exposition (ACE) in Dallas, TX last June.

Tanush Wadhawan, NDSU

Tanush Wadhawan, represented North Dakota well at ACE, winning 2nd place in the AWWA Fresh Ideas Poster competition against over 20 other section winning posters. He was recognized on Tuesday during the Water Industry lunch. Wadhawan was the 2011 winner of the North Dakota Fresh Ideas poster competition held at the 2011 NDWPCC in Bismarck, N.D. This honor comes with free registration and a section-sponsored trip to ACE. Top poster prizes are based on quality of content, presentation, and the benefit the project has to the drinking water industry.

Leslee Storlie also was recognized at the ACE Water Industry lunch where she took the stage to receive an engineering scholarship from MWH Global. To learn more about Storlie's ACE experience, read the article she wrote for the October AWWA Journal on page 35.

Tim Wolfe, MWH America's Water Practice Leader (left), Leslee Storlie, NDSU and Jerry Stevens, AWWA president

NDAWWA is proud of the accomplishments of its student members and is often praised nationally for its strong student chapters. Congratulations again to the students for the achievements of this year, and thank you to the Universities and advisors for your support to the students.

Mayville Has the Best Tasting Water in North Dakota

Tom Nielson, city of Mayville (left) and Gene Koontz, vice president, American Water Works Association.

It is official; Mayville has the best tasting tap water in North Dakota! Eight cities competed in the Annual Drinking Water Taste Test at the 84th annual North Dakota Water & Pollution Control Conference in Minot. Conference attendees voted Valley City, Mandan, and Mayville as the top three contenders in a blind taste test. The cities of Bismarck, Fargo, Garrison, Grand Forks, and Wahpeton also competed. A panel of judges made the final decision, and Mayville was formally announced as the winner at the conference banquet. Mayville is located about 50 miles northwest of Fargo.

The North Dakota chapter of the American Water Works Association (NDAWWA) conducts the Drinking Water Taste Test during the North Dakota Water and Pollution Control Conference every year. Past winners include Fargo (2011), Mayville (2010), Valley City (2009), and Grand Forks (2008).

Minutes of the Board of Trustees Meeting, North Dakota Section of AWWA

October 16, 2012

The fall meeting of the North Dakota Section of the American Water Works Association was held at the Grand International Inn of Minot, North Dakota on October 16, 2012. Present at the meeting were Chair Tim Paustian; Chair-elect, Eric Volk; Past-chair, Dean Sletten; Director, Larry Thelen; AWWA Vice-President, Gene Koontz; Trustees, Jason Sorenson, Dennis Larson, Nancy Huether and Meredith Quinn; Secretary/Treasurer, David Bruschwein; Assistant Secretary/Treasurer, Greg Wavra; and also Darrel Casteel, Joe Ferguson, and Wade Hesch.

The meeting was called to order by Mr. Paustian at 7:35 a.m.

The Secretary's Report was presented by Mr. Bruschwein. Mr. Sorenson moved to approve the minutes of the May 16, 2012, Board Meeting. Mr. Sletten seconded, and the motion passed.

Mr. Wavra presented the Treasurer's Report. As of October 11, 2012, the section had income of $52,777.47 and expenses of $55,076.36 for a net loss of $2,298.89. The section has $22.054.95 in the checking and money market accounts. The section also has $83,582.85 in student support and reserve accounts. The net income is high this year because the section handled the registration for the Surface Water Workshop. Mr. Wavra also covered the anticipated financial loss for the year, which is not expected to be as bad as was first projected. Ms. Quinn moved to accept the Treasurer's report. Ms. Huether seconded, and the motion carried.

Committee Reports

Education and Research Committee

Ms. Quinn presented the Education Committee report and covered highlights of the committee meeting the previous evening. The committee is working to get more Section members as active volunteers as well as giving presentations at the NDWPCC. The student chapters will meet Tuesday to look at ways to become more involved. The committee also looked at ways to get more articles in the *Official Bulletin*.

Membership

Mr. Sletten said that section membership is currently at 259, including 9 memberships that are late in paying. This is down 11 from the last meeting.

WFP

Mr. Bruschwein reported that the Golf Tournament Sponsorship is doing very well this year and there is also a raffle again this year at the NDWPCC.

WUC

Mr. Thelen reported that Mr. Jack Long is willing to track water bills at this year's legislative session but the Section needs to cover the cost of the bill tracking service. Mr. Volk moved to cover the cost of the bill tracking service. Mr. Sorenson seconded the motion and the motion passed.

Student Chapter

Ms. Quinn reported for the Student Chapters. Mr. Paustian and Mr. Sletten have both presented at chapter meetings. The NDSU chapter has worked to expand their base and now have several chemistry students as members. The chapter is always looking for presenters at meetings. Ms. Quinn also talked about the need for getting a champion for each of the student chapters and how that helps the chapters flourish. Tanush placed second at the poster competition at ACE. Great job Tanush!

Committee Structure

Ms. Huether reported on the committee structure ad hoc committee. She sent an email to each of the committee chairs with a list of questions. There was not much response, so it was assumed everything is OK The only exception is the Education and Research committee, which seems to have too much to do. Ms. Quinn said that she would like to see the YP get more of the younger members involved. Options to help the committee include having sub-committees or going back to co-chairs. It was felt that it would be good to have a discussion on the pros/cons of this. Ms.

Huether did note that 20 people attended the Education Committee meeting the night before and there needs to be a way to get these people more involved.

MAC

Ms. Huether talked with Ms. Lisa Ansley about progress on starting a MAC committee. Ms. Ansley has been very busy this year and was not able to find a champion to get the group going. The thought is to keep working on it this winter when things slow down. This way a committee can be formed before the conference in Grand Forks.

Director's Report

Mr. Thelen presented the Director's Report. The big news for AWWA and WEF is the announcement of new collaboration between the two organizations. Three different models on how the organizations can work together were looked at and the one picked was program integration. The two organizations will meet twice a year to look at how to do things together.

Old Business

Mr. Sorenson covered water day at the state fair. Unfortunately, the weather was cool and rainy that day so attendance was low.

Ms. Huether and Mr. Thelen talked about the AWWA training in July. They both felt it was very good. They liked the training on arranging conferences/workshops and how to make these better suit the needs of our customers.

Mr. Joe Ferguson was the trustee selection committee chair this year. Mr. Ferguson feels the by-laws need to be changed to the same model used to select directors. He said it is hard finding two people to run for trustee and then one ends up losing. There was discussion on how this could be accomplished and what needed to be done if this course of action is to be pursued. Mr. Sletten moved to amend the by-laws so the selection of trustees is by unanimous ballet and not have two candidates run against each other. Mr. Sorenson seconded the motion. The motion carried unanimously.

New Business

Mr. Wavra passed out a draft budget for 2013. There was discussion on what was covered under each of the categories. Ms. Quinn moved to add $1,500 to the Education Committee budget. Mr. Sletten seconded the motion and the motion carried.

Mr. Wavra talked about the website renewal fees coming due. The fees are included in the budget but there was discussion on how much the website is used and if it is worth renewing. The group consensus is that it is worthwhile having a website.

Mr. Thelen motioned to adjourn and was seconded by Mr. Sorenson. The meeting adjourned at 9:30 a.m.

Respectfully submitted,

David Bruschwein
Secretary- Treasurer

Minutes of the Business Meeting of the North Dakota Section of AWWA

October 18, 2012

The business meeting of the North Dakota Section of the American Water Works Association was held at the Grand International Inn of Minot, North Dakota, on October 18, 2012.

Mr. Tim Paustian called the meeting to order at 12:20 p.m. and recognized the head table, Section Officers, Trustees, and AWWA Vice President Gene Koontz.

The minutes of the October 11, 2011, Business Meeting was published in the 2011 Post-Conference issue of the *Official Bulletin*. Mr. Paustian asked for any corrections to the minutes. There were none. Mr. Larry Thelen moved to approve the minutes, and were seconded by Mr. Rick Gillund. Motion carried.

Mr. Paustian presented the Treasurer's Report. The Section had income of $52,777.47 and expenses of

$55,076.36, for a net loss of $2,298.89 so far in 2012. The Section had, as of October 11, 2012, $22,054.95 in checking and money market accounts, and endowments and reserve of $83,582.90. Total assets for the Section are $105,637.85. Ms. Nancy Huether moved to accept the Treasurer's Report and Mr. Dean Sletten seconded the motion. Motion carried.

Mr. Dennis Larson presented the Audit Committee results of the Section financial accounts. Mr. Larson reported no discrepancies were found in the financial accounts for 2011 and all appeared to be in order. Mr. Mel Bullinger moved to accept the Audit Committee Report and Mr. Jason Sorenson seconded the motion. Motion carried.

Mr. Paustian introduced each of the Board of Trustee candidates. Nominees for trustee are Mr. Wade Hesch and Mr John Goetz. The election was held by secret ballot. Mr. Paustian informed the members that Mr. Wade Hesch is the new trustee.

There was no other unfinished business.

There was no new business.

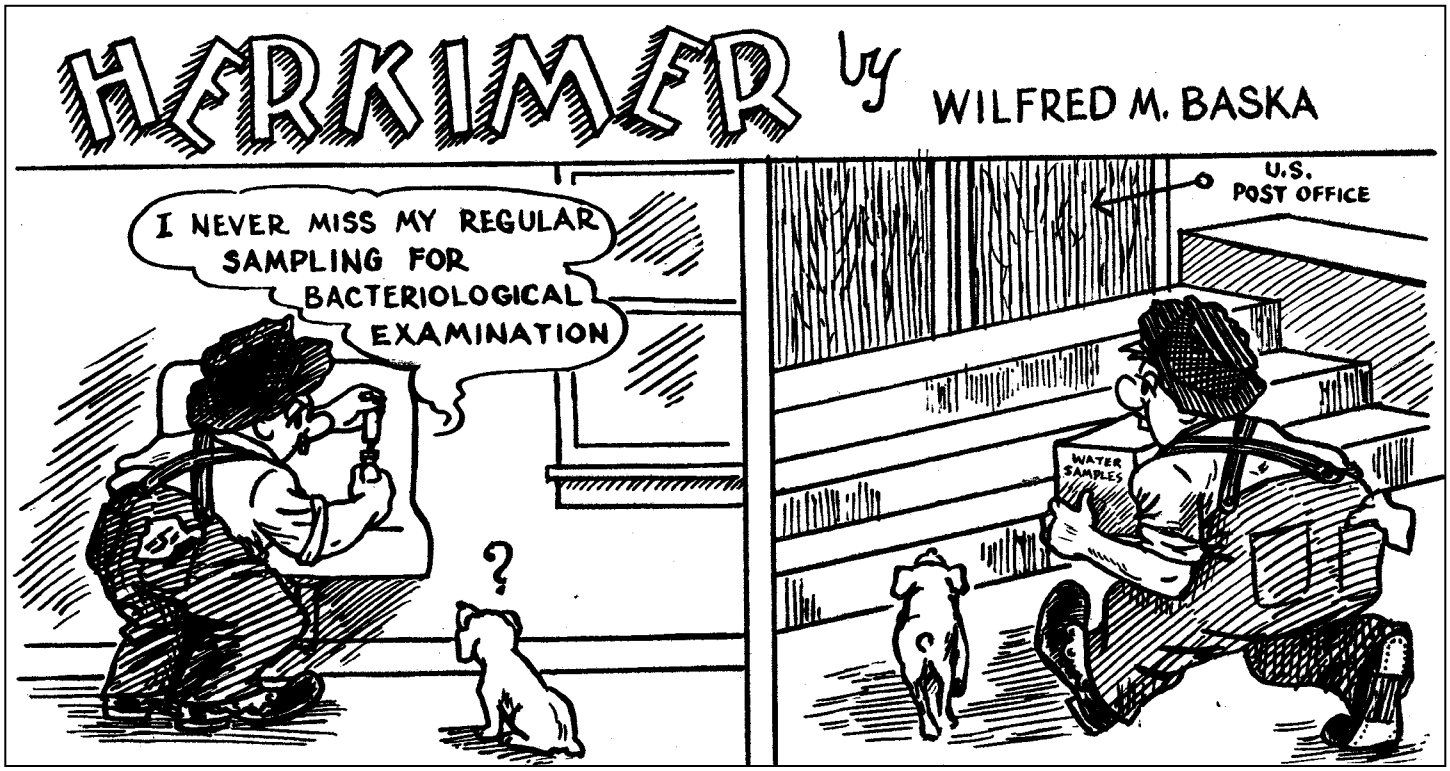
Mr. Paustian introduced the guest speaker, Mr. Gene Koontz. Mr. Koontz is from Harrisburg, Pennsylvania, where he works as a senior vice president for Gannett Fleming. His message was on the state of AWWA and challenges the organization has faced over the last several years. These challenges include the national economy, changing technology, lowering of membership numbers, and working on a governance structure. Overall the organization is looking at new ways of doing business as it moves into the future such as how the Sections and the Association work together. Also, AWWA and WEF recently announced their intent of working closer together in the future.

Mr. Paustian thanked everybody for their support and help during his tenure as chair. He introduced Mr. Eric Volk, incoming Section Chair. Mr. Volk thanked Mr. Paustian for the work that he accomplished during his time as Section Chair and presented him with a plaque.

Mr. Volk asked for a motion to adjourn the meeting. Ms. Nancy Huether moved to adjourn and Mr. Dennis Larson seconded the motion. The motion carried and the meeting was adjourned at 12:52 p.m.

Respectfully Submitted,

David J. Bruschwein
Secretary-Treasurer



Engineering America

Looking for

The Perfect Tank Solutions?

We've Got Your Number!

Our New Online Quoting and Life Cycle Analysis Systems Provide Real Numbers, Real Fast

- **Easy to Fill Out**
- **Accurate**
- **Comprehensive**
- **Responsive**

Whatever your storage tank needs, we have the knowledge to help you choose and build the solution that's right for you. Since 1980, we've installed more than 800 liquid storage tanks and counting. Contact us today at www.engamerica.com for a quote and life cycle cost analysis or more information on all our product line offerings.

Liquid Storage
- Aquastore® Tanks
- TecStore Epoxy-Coated Tanks
- HydroTec Epoxy-Coated Tanks
- PetroTec Petroleum Storage Tanks

Geodesic Domes
- Temcor/Conservatek

Headworks
- Huber Technologies
- Lakeside Equipment
- WesTech

Blowers
- Dresser Roots
- Houston Service Industries

Biological Treatment
- Sanitaire
- ABJ
- WesTech
- Lakeside Equipment
- Aeromix
- Nelson Environmental

Specialized Pumps
- Hayward Gordon
- Böerger
- Epic International
- Franklin Miller, Inc.

Prefabricated Stations
- Dakota Pump, Inc.

Disinfection
- Trojan Technologies
- Severn Trent Services

Bio Solids Treatment
- WesTech
- BDP Industries
- Centrisys
- Fenton
- Huber Technologies
- Spirac
- M2 Renewables
- Mixtec

Odor Control
- Duall

Chemical Feed
- Acrison
- Milton Roy
- Severn Trent Services
- Capital Controls All Vacuum Feed Systems

Clarification
- Lakeside Equipment
- WesTech

Water Treatment
- WesTech
- Severn Trent Services

Instrumentation
- Capital Controls Chlorine Residual Analyzers
- PpH/ORP/Br/O3/I/ Conductivity Analyzers
- CL2/SO2/NH3 Gas Detectors
- Digital Weight Scales

THINK TANK • *think process*

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

DSG Has New Waterworks Branches in Bismarck and Fargo!

We recently opened a new location in Bismarck, N.D., and acquired Fargo Water Equipment in Fargo, N.D. Here's what that means for municipalities and rural water customers in North Dakota:

- **Exclusive Waterworks Products** – Now you can take advantage of some of the best products in the waterworks industry – exclusive only to DSG.
- **Large Inventory** – Our new branches stock full-line waterworks inventories housed in large warehouses and yard areas.
- **Fast Shipping & Delivery** – By working together with DSG's existing branches throughout North Dakota, waterworks products will be delivered when and where you need them.

To learn more, contact DSG Bismarck or Fargo Water Equipment today!

Bismarck
(855) 337-9258

Fargo Water Equipment
(800) 342-4676

DSG
DAKOTA SUPPLY GROUP
For all the right connections!

www.dakotasupplygroup.com

Annual Operator Training Program

The North Dakota Department of Health is pleased to announce the 53rd Annual Professional Water and Wastewater Operator Training Program.

1. **Objectives -** These classes will fulfill the continuing education credit (CEC) requirement for certified operators. You will receive **12 CECs for each session** attended. Roll will be taken during the sessions to verify attendance. Expect to hear presentations regarding regulations and how to avoid mistakes that can lead to non compliance for your facility. This will include general operation and maintenance topics. **The courses are not geared specifically to prepare operators for certification exams.**

2. **Registration** - Please **preregister** using the **enclosed registration form, or complete your registration form online at http://www.ndhealth.gov/mf/ and mail or fax (701-328-6206) the printed copy.** You may attend both water and wastewater sessions. Please indicate a second choice when selecting class sessions. Please make copies if more than one operator will be attending. **A $20.00 registration fee payable to the North Dakota Water and Pollution Control Conference (NDWPCC) is required**. This covers attendance at one or more sessions. A confirmation letter will be sent and must be presented at the time of registration. If you need to reschedule or cancel, please call Patty Carman at 701-328-6628.

3. **Membership** - A $10.00 membership fee for the NDWPCC is optional. Membership includes the *Official Bulletin* and may be added to the total payment.

4. **Certification exams** - A separate application form is required. An application form and directions are included. Please fill out completely, or complete your application form online at http://www.ndhealth.gov/mf/. Do not use previous applications. Signed applications must be received by the certification officer 15 DAYS before the examination date. Applications received after the deadline will be rejected. No walk-in exams will be allowed. Please make copies if more than one operator will be testing.

- A photograph identification card is required to take exams.
- A confirmation letter will be sent and must be presented at the time of testing.
- If you need to reschedule or cancel, please call Craig Bartholomay at 701-328-6626.
- Please bring your own calculator and pencils.
- Make your check for **$10.00 per exam payable to the North Dakota Department of Health**. Payment must be received prior to writing exams.
- Results of the exams will be sent out after all of the training sessions are completed and after payment has been received for the exam(s).

5. **Location** - All training sessions and certification exams will be held at the **Environmental Training Center, 2639 East Main, Bismarck**. Please park on the west or south side of the training center.

6. **Chlorine Meter Training - (for applicable water operators)** - This training is voluntary and will be offered prior to the water treatment and distribution sessions (see schedule). If you would like to participate, please provide your own chlorine meter. For more information, please call Bob Markhouse at 701-328-6623.

7. **pH certification - (for applicable wastewater operators)** - This will be offered in conjunction with the wastewater treatment training sessions (see schedule). For more information on the wastewater pH certification or to see if you should attend, please call Luci Snowden at 701-328-5239.

8. **Sponsors** -
ND Department of Health
ND Water and Pollution Control Conference
ND Chapter of the American Public Works Association
ND Section of the American Water Works Association
ND Water Environment Association

9. **Special needs** - If you need special accommodations or more information, please call Mike Brisben at 701-328-6622.

10. A block of rooms at the Ramkota Hotel, 800 South 3rd Street, (701-258-7700), has been booked for the operator training sessions. If you elect to use the Ramkota Hotel, the rates are $69.00 (single) and $89.00 (double) plus tax. Other hotels honoring state

rates based on availability include: Comfort Inn 701-223-1911, Comfort Suites 701-223-4009, Fairfield Inn North 701-223-9077, Fairfield Inn South 701-223-9293, Expressway Inn 701-222-2900, Kelly Inn 701-223-8001, and Doublewood Inn 701-258-7000.

11. **Class Schedule:**

Water Treatment and Distribution - in Bismarck
March 4, 5, and 6, 2013
March 11, 12, and 13, 2013
March 25, 26, and 27, 2013
April 1, 2, and 3, 2013

Check in time for registration is 12:00-1:00 p.m. on March 4, 11, 25, and April 1.

Exams are scheduled from 1:00-5:00 p.m. on March 6, 13, 27, and April 3.

Chlorine Meter Training - (**for applicable water operators**)
March 4, 11, 25, and April 1 at 10:00 a.m.

Wastewater Treatment and Collection - in Bismarck
April 15, 16, and 17, 2013
April 22, 23, and 24, 2013

Check-in time for registration is 12:00-1:00 p.m. on April 15 and April 22. Exams are scheduled from 1:00-5:00 p.m. on April 17 and April 24.

pH Certification - **(for applicable wastewater operators)**

April 15 and 22, 2013 at 10:00 a.m. for wastewater treatment operators

12. **Topics** in Water Treatment and Distribution may include:
SDWA Update, Operator Certification, Overview of Water Treatment Rules, BacT Update, Stage I & II Disinfectants/Disinfection By-products Rules, Filtration, Chlorine Meters and Measurements, Disinfection of Pipes and Reservoirs, Fire Hydrants, Groundwater Rule, Lead and Copper Rule, Math, Cross Connections, Pumps, System Security, Fluoridation, Wellhead/Source Water Protection, and others.

13. **Topics** in Wastewater Treatment and Collection may include:
Wastewater Basics, History of Wastewater Treatment, Troubleshooting, Physical Aspects of Lagoons, Wetland Systems, Microbiological Life in Ponds, Collection Systems, Operator Certification, Math, Discharge Permits, Lift Station Rehabilitation, Stormwater Update, Pond Construction, and others.

14. **All operators working in public water treatment and/or distribution systems which serve a population of 3,300 or less are eligible for reimbursement. Please pick up the appropriate forms during the training sessions. After payment to the North Dakota Water and Pollution Control Conference and/or state is made, you may apply for reimbursement.**

15. The 2013 Registration Form and Application for Operator Certification exams can be located by clicking on calendar and publications on the Division of Municipal Facilities website at http://www.ndhealth.gov/mf/.

16. **Questions**

Regarding exams:
call Craig Bartholomay at 701-328-6626.
Regarding training sessions:
call Mike Brisben at 701-328-6622.
Regarding pH certification:
call Luci Snowden at 701-328-5239.
Regarding chlorine meter training:
call Bob Markhouse at 701-328-6623.

Bill Hughes
Home (218) 287-1138
Bus: (218) 287-1579

Hughes Lift Station Service Inc.
Complete Sewage Lift Station
Repair And Service

1809 55th Ave. N.
Moorhead, MN 56560

2013 Registration
53rd Annual Professional Water and Wastewater Operator Training Program

Name _____
(Please Print Clearly)

Employer _____

Employer's Address _____

City, State, Zip Code _____

Home Address _____

City, State, Zip Code _____

Daytime Telephone Number _____

Email Address _____

Check below the sessions you wish to attend. PLEASE NOTE THAT CLASS ATTENDANCE IS LIMITED TO THE FIRST 60 REGISTRANTS. A confirmation letter must be presented at the time of check-in at the Environmental Training Center. Attendance will be required for the issuing of continuing education credits. Roll will be taken during the sessions to verify attendance.

Do not apply for certification exams on this form (a separate application form is enclosed).

Name of Session	Date of Session	1st Choice	2nd Choice
Water Treatment and Distribution	March 4, 5, 6	☐	☐
Water Treatment and Distribution	March 11, 12, 13	☐	☐
Water Treatment and Distribution	March 25, 26, 27	☐	☐
Water Treatment and Distribution	April 1, 2, 3	☐	☐
Wastewater Treatment and Collection	April 15, 16, 17	☐	☐
Wastewater Treatment and Collection	April 22, 23, 24	☐	☐

Manuals for sale (while supplies last):

CSU Small Water System Operation and Maintenance ($50.00) _____
CSU Water Treatment Plant Operation, Vol.1 ($50.00) _____
CSU Water Treatment Plant Operation, Vol.2 ($50.00) _____
CSU Water Distribution System Operation and Maintenance ($50.00) _____
EPA Stabilization Pond Manual ($12.00) _____
CSU Wastewater Collection System Operation and Maintenance, Vol.1 ($50.00) _____
CSU Wastewater Collection System Operation and Maintenance, Vol.2 ($50.00) _____
CSU Small Wastewater System Operation and Maintenance, Vol.1 ($50.00) _____
CSU Small Wastewater System Operation and Maintenance, Vol.2 ($50.00) _____

Membership in North Dakota Water and Pollution Control Conference _____
(includes *Official Bulletin* - $10.00)

Subtotal _____

Registration Fee (covers attendance at one or more sessions) $ 20.00

Make check for training program, membership, and manuals payable to: **Total** _____

ND Water and Pollution Control Conference or NDWPCC
918 East Divide Avenue, 3rd Floor
Bismarck, ND 58501-1947

Department Use Only

Date Received_____
Amount Received_____
Cash MO or CK#_____

APPLICATION FOR WATER AND/OR WASTEWATER OPERATOR CERTIFICATION EXAM

NORTH DAKOTA DEPARTMENT OF HEALTH
DIVISION OF MUNICIPAL FACILITIES
2639 East Main Ave
Bismarck, ND 58501
SFN 16403 (12/12)

READ DIRECTIONS BEFORE COMPLETING.

Name		Home Telephone Number ( )		
Home Address		City	State	Zip Code
Present Employer		Population Served	Business Telephone Number ( )	
Employer's Address	County	City	State	Zip Code
Your Position Title:		Status (Check One) ☐ Full Time ☐ Part Time ☐ Seasonal		

Check the certification exams you are applying for:

Water Treatment Plant Operator	☐ 1A	☐ 1	☐ 2	☐ 3	☐ 4
Water Distribution System Operator	☐ 1A	☐ 1	☐ 2	☐ 3	☐ 4
Wastewater Treatment Plant Operator	☐ 1A	☐ 1	☐ 2	☐ 3	☐ 4
Wastewater Collection System Operator	☐ 1A	☐ 1	☐ 2	☐ 3	☐ 4

Exam Date: Retest: ☐ Yes ☐ No	Location:	For Reciprocity Applications: State: Grade:

Operator Work Experience

List the positions you have held in water treatment, water distribution, wastewater treatment, or wastewater collection. Start with your present position and work backward. If necessary, use extra sheets to describe duties.

Dates employed: Mo./Yr.	TO Mo./Yr.	Name and Address of Employer	Specific Duties Performed

Are you an operator in Direct Responsible Charge? Yes _____ No _____

Direct Responsible Charge (DRC) means full and active performance of onsite operation of a water or wastewater treatment facility or a water distribution and storage or wastewater collection and transfer system; and that you are responsible for **one or more of the following**: technical support of the facility or system and providing direction to other operators; onsite or on call during shift operations; operation of a major segment of a facility or system; are the sole person employed as the facility or system operator.

Date Started as DRC?_____

EDUCATION

Name and Address of High School	Year Graduated: Highest Grade Completed:

College or University	Dates Attended	Major	Minor	Degree Obtained	Year Graduated

Check the appropriate letter (C or P) to indicate current position "C" or previous position "P". If appropriate, list a number to identify your experience with various systems. (For example: 8 # of wells x C ___P)

WATER TREATMENT

_____ Average Daily Production (GPD) ____C ____ P
Chlorination ____ C ____ P
Sequestering ____ C ____ P
Chemical Softening and Filtration ____ C ____ P
Iron and Manganese Removal ____ C ____ P
Coagulation, Sedimentation, Filtration ____ C _____ P
Fluoridation ____ C ____ P
Corrosion Control ____ C ____ P
Reverse Osmosis ____ C ____ P
Other: _____

WASTEWATER TREATMENT

_____ Average Daily Treatment (GPD) ____C ____P
Stabilization Ponds ____ C ____ P
Oxidation Ditches ____ C ____ P
Trickling Filter ____ C ____ P
Sludge Stabilization ____ C ____ P
Aerated Ponds ____ C ____ P
Activated Sludge ____ C ____ P
Rotating Biological Contactor ____ C ____ P
Mechanical ____ C ____ P
Other: _____

WATER DISTRIBUTION

_____ Average Daily Volume (GPD) _____ C ____ P
_____ # of Service Connections ____ C ____ P
_____ # of Pumping Stations _____ C _____ P
_____ # of Storage Facilities _____ C _____ P
Types: _____

WATER SUPPLY

_____ # of Wells ____ C ____ P
_____ # of Springs ____ C ____ P
Name of Surface Water _____
Name of Rural Water_____

WASTEWATER COLLECTION

_____ Average Daily Volume (GPD) ____ C ____ P
_____ # of Service Connections ____ C ____ P
_____ # of Industrial Connections ____ C ____ P
_____ # of Storm Water Connections ____ C ____ P

LIFT STATIONS

_____ # of Submersible Type ____ C ____ P
_____ # of Wet Well/Dry Well ____ C ____ P
_____ # of Air (Pneumatic) ____ C ____ P
_____ # of Package Type ____ C ____ P

Name, Address, Phone Number of References

1. _____
2. _____
3. _____

The information I have provided above is correct and to the best of my knowledge.

_____ Signature of Applicant / Date Signed

_____ Signature of Supervisor / Date Signed

Directions for Completing Application for Operator Certification Exam

- ✓ Each statement and fact by the applicant must be true and correct.
- ✓ Please type or print legibly. Unreadable applications will be returned.
- ✓ Please fill out application fully and completely. Incomplete applications will be returned.
- ✓ Completed application must be received by the Certification Officer 15 days prior to exam date. Please send the application at least three to four weeks prior to the deadline to ensure that it arrives on time. Late applications will be returned.
- ✓ Payment must be received at the time of examination. Make your check for $10.00 per exam payable to the North Dakota Department of Health. (NDDH)
- ✓ Payment for training sessions is separate and cannot be included on the check for examinations.
- ✓ Registering for training sessions does not register an operator for examinations.
- ✓ Applying to take an exam does not register an operator for training sessions.
- ✓ If your work status is part time or seasonal, you must present the actual number of hours worked in each area for which you are applying.
- ✓ You may write a maximum of two examinations per session (if they are class 2 or lower).
- ✓ You may apply for exams in water treatment, water distribution, wastewater treatment, or wastewater collection on the application form.
- ✓ Please start with your present position work experience and work back. If necessary, use extra sheets to describe duties.
- ✓ Choose references who can confirm your operating experience (supervisor, foreman, city officials, etc.)
- ✓ Applications must be signed and dated by operator and supervisor.
- ✓ If you are eligible to take an exam you will receive a confirmation letter. This letter must be presented at time of payment.

Examples of specific duties performed per area (these are just some of the duties that may be performed in these areas):

Water treatment - Start up, shut down, and make periodic operating checks of plant equipment, such as pumping systems, chemical feeders, auxiliary equipment, and measuring and control systems. Perform preventive maintenance of all equipment. Maintain plant records. Collect samples and perform laboratory tests. Computer data entry. Backwash filters. Make safety checks. Daily cleaning of plant. Monitor wells. Perform well drawdown tests, etc.

Water distribution - Operate and maintain all valves. Maintain and repair fire hydrants. Flush fire hydrants. Collect samples. Maintain distribution records. Perform chlorine tests. Read meters. Maintain and repair meters. Monitor and maintain water storage facilities. Fix and repair water mains and breaks. Routine maintenance of pumps and pumping facilities. Maintain an inventory of spare parts for system, etc.

Wastewater treatment - Daily operation and maintenance of pond system. Transferring wastewater between cells. Discharging wastewater. Dike maintenance. Fence repair. Mowing. Weed and vegetation control. Record keeping. Operate and maintain valves. Sampling and analysis. Checking freeboard. Operate and maintain all mechanical equipment. Erosion control. Seepage control. Control animal activity. Safety checks, etc.

Wastewater collection - Maintain and operate sewers, manholes, and pipelines. Repair sewer breaks. Replacing and repairing lines. Inspecting and/or installing new service connections. Operate and maintain lift stations. Maintain and repair pumps and valves. Record keeping. Safety checks. Operate high-velocity cleaning machines, rodders, and vacuum equipment, etc.

Exam rules

- ✓ Must present confirmation letter at payment.
- ✓ All exam fees must be paid before testing.
- ✓ Photo ID is required.
- ✓ No cell phones, cameras, earpieces, headsets, PDAs, radios, MP3 players, etc., allowed in the examination room.
- ✓ No pads, tablets, papers, formula sheets, books, binders, etc., allowed in the examination room.
- ✓ No programmable calculators allowed.
- ✓ You may bring extra pencils and simple calculators.

If you have questions, please call Craig Bartholomay at 701-328-6626.

Operators Pass Certification Exams

Congratulations to these operators!

Operator	Employer	Certification Type/Grade
Anderson, Dean	Grand Forks	Water Treatment 04
Arends, Paul	Devils Lake	Wastewater Collection 01, Water Distribution 01
Boozer, Grady	Cathay	Wastewater Collection 1A, Wastewater Treatment 1A
Christensen, Shawn	South Central Regional Water District	Water Treatment 01
Christianson, Kurt	Minot	Water Distribution 02
Cole, Adam	Grand Forks	Water Distribution 01, Water Treatment 02
Hasbargen, Gary	Wahpeton	Water Distribution 1A, Water Treatment 01
Labelle, Greg	Home On The Range	Water Distribution 1A
Lavoi, Joshua	Grand Forks	Wastewater Collection 03
Lemer, Greg K.	R & T Water System	Water Treatment 04
Macbeth, Raymond	Columbus	Wastewater Collection 1A
Meidinger, Simon	South Central Regional Water District	Water Treatment 1A
Morey, Terry	Dickinson	Water Distribution 03
Morris, Matthew	South Central Regional Water District	Water Treatment 1A
Mottl, Gina	Williston	Wastewater Treatment 01
Olson, Jay T.	Cargill Sweeteners	Wastewater Collection 01, Water Distribution 01
Saari, Darwin	Turtle Lake	Wastewater Collection 01, Wastewater Treatment 01
Vavrosky, Frank	Fargo (WWT)	Wastewater Treatment 04
Weishaar, Dustin	Minot Air Force Base	Wastewater Treatment 02
Zaharia, Jacob	Cargill Sweeteners	Wastewater Treatment 03
Zastoupil, Duane	Dickinson	Wastewater Treatment 01
Bauer, James	Minot Air Force Base	Wastewater Treatment 02
Bolton, Steven G.	Grand Forks	Wastewater Collection 01, Water Treatment 02
Byram, Casey	Cando	Water Distribution 1A, Water Treatment 1A
Hammond, Roger	Devils Lake	Wastewater Collection 02, Wastewater Treatment 02
Johnson, Gordon	North Valley WD - System II - Akra	Water Treatment 04
Koval, Charles	Cargill Sweeteners	Wastewater Collection 1A, Water Distribution 1A
Olson, Ronald D.	Jamestown	Wastewater Treatment 02
Palmer, Tyler	Grand Forks	Water Treatment 01
Price, Kyle	Dickinson	Wastewater Collection 02, Wastewater Treatment 02
Trosen, Dan	Carrington	Wastewater Treatment 02, Water Distribution 02

Wold Engineering, P.C.

Consulting Engineers & Land Surveyors

Bottineau (701) 228-2292
Bismarck (701) 258-9227
Minot (701) 852-0338
Email: wold@woldengr.com

2012 Conference Sponsors for Door Prizes, Social Hours, Coffee Breaks and Golf Tournament

Thank You for Your Contribution.

Ackerman-Estvold Engineering
1907 17th St Southeast
Minot, ND 58701
701-837-8737

AE_2S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201
701-364-9111

Apex Engineering Group
4733 Amber Valley Parkway S
Fargo, ND 58104
701-373-7992

Dakota Supply Group, Inc.
4500 Carbine Dr
Bismarck, ND 58501
605-336-8884

Electric Pump
1434 5th Ave N
Fargo, ND 58102
701-235-7500

Fargo Water Equipment
4557 15th Ave N
Fargo, ND 58102
701-237-0222

Ferguson Waterworks
1917 1st Ave N
Fargo, ND 58102
701-293-5511

HD Supply Waterworks
407 72nd St SE
Minot, ND 58701
952-974-8100

HDR Engineering, Inc.
6300 S Old Village Place
Ste 100
Sioux Falls, SD 57108
605-977-7740

Houston Engineering, Inc.
3712 Lockport St
Bismarck, ND 58503
701-323-0200

Interstate Engineering, Inc.
PO Box 2035
Jamestown, ND 58402
701-252-0234

Kadrmas, Lee & Jackson
128 Soo Line Dr
Bismarck, ND 58501
701-355-8400

Killoran Trucking & Brokerage, Inc.
PO Box 66
Tower City, ND 58071
701-749-6190

Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078
701-282-4530

MVTL Laboratories, Inc.
2616 E Broadway Ave
Bismarck, ND 58501
701-258-9720

ND Sewage Pump & Lift Station Service
1734 Main Ave E
West Fargo, ND 58078
701-282-6760

Northern Pipe Products
1302 39th St NW
Fargo, ND 58102
701-371-5972

Olson Engineering, Inc.
PO Box 1062
Devils Lake, ND 58301
701-662-6520

Parsons Engineered Products, Inc.
3601 Park Cntr Blvd #130
Saint Louis Park, MN 55416
952-926-7000

Stantec Consulting Services
2335 W Hwy 36
St. Paul, MN 55113
651-636-4600

Short Elliott Hendrickson, Inc. (SEH)
1200 25th Ave S
St. Cloud, MN 56301
320-229-4300

Team Lab
PO Box 1467
Detroit Lakes, MN 56501
218-846-9490

Van Bergen & Markson, Inc.
8814 7th Ave N
Minneapolis, MN 55427
763-546-4340

Visu-Sewer, Inc.
W230 N4855 Betker Dr
Pewaukee, WI 53072
262-695-2340

Wastewater Treatment Facility Safety Guidelines

www.grainger.com

The wastewater treatment industry has three major safety categories: confined-space entry; lockout/tagout; and personal protective equipment (PPE). All three safety concerns cover specific issues, and all are equally important. Methods of defense against some of these life-threatening conditions include air monitoring, proper ventilation, respiratory protection, and fall protection.

Confined-Space Entry

Confined-space entry issues are closely monitored to ensure that employees are properly trained and follow the strict, OSHA-regulated wastewater treatment facility guidelines.

In the wastewater treatment industry, confined-space hazard awareness can mean the difference between life and death. Depending on individual sites, the following locations have the potential to be considered confined spaces in a wastewater treatment facility:

- Aeration basins
- Digesters
- Applicator machines
- Primary tanks
- Manholes
- Vaulted sampling pits

Several of these locations are below ground level and have stair entry for access to routine maintenance, inspection, testing, sampling, and repairs. The level of fall protection necessary depends on the facility, its required activities, and the job tasks being performed. Full-body harnesses, ladder-safety systems, tripods, and hoists are among the more important fall-protection products. Although some of the above locations might not be deemed a confined space according to regulations, many facilities lean toward the side of safety and do treat them as confined spaces

www.ulteig.com
877-858-3449
Ulteig
Engineering, Surveying, and Consulting Services
Bismarck • Cedar Rapids • Denver • Detroit Lakes
Fargo • Minneapolis • Sioux Falls • Williston

OSHA defines a confined space as an area that:

- is large enough and so configured that an employee's body can enter and perform assigned work;
- has limited or restricted means for entry or exit; and
- is not designed for continuous employee occupancy.

A permit-required confined space is defined as a confined space that:

- contains or has a potential to contain a hazardous atmosphere;
- contains a material that potentially could engulf an entrant;
- has an internal configuration that could trap or asphyxiate an entrant through inwardly converging walls for a floor that slopes downward and tapers to a smaller cross-section; or
- contains any serious safety or health hazard.

Identifying and properly marking a confined space is a major step toward providing safety for wastewater treatment facility employees. Please refer to Quick Tips #115: Confined Spaces, 29 CFR 1910.146, which summarizes confined spaces and has a permit-required, confined-space decision flow reference chart. Employers in the wastewater treatment industry should also obtain a copy of 29 CFR 1910.146, Permit-Required Confined Spaces, to ensure that they are in full compliance with this standard.

Lockout/Tagout

Another important area of safety known as lockout/tagout involves routine maintenance, inspections, repairs, and testing. Lockout/tagout plays an important role in system testing, inspections, servicing and repairs, and routine maintenance by ensuring that energized equipment is de-energized or shut down, locked out, and tagged. Nearly 90 percent of the activities that require lockout/tagout are applications that require de-energizing an electrical source that provides power to a system or equipment components within the system.

These might include pumps, electrical motors, valves, and mixing systems. The remaining activities include lockout/tagout of pipelines and systems, and valves where the energized source of potential danger could be water entry, high water pressure, air pressure, and/or steam.

Personal Protective Equipment (PPE)

A wastewater treatment facility presents employees with a variety of personal hazards. Employees depend on personal protective equipment to protect themselves from hazards and perform daily duties. PPE includes, but is not limited to, safety glasses, face shields, hard hats, gloves, foot protection, and durable and disposable chemical-protective clothing. Respirators and fall protection might also be required. However, respirators and fall protection are addressed under separate OSHA standards.

To properly determine what types of PPE employees need to help follow wastewater treatment facility guidelines, the employer is required, under the revised personal protective standard 29 CFR 1910.132, to perform a hazard assessment or a walk-through survey of each work area and certify that it has been done. The survey should consider impact, penetration, compression (roll-over), chemicals, heat, harmful dust, and light (optical) radiation. After the survey, the employer should select the proper PPE to address the hazard.

PPE is only one aspect of a comprehensive program for ensuring the safety and health of workers. Careful planning, work practices, engineering controls (isolation), and administrative (avoidance) controls should be considered as well. If circumstances prohibit engineering controls or work practices, or these measures do not sufficiently reduce work exposures, OSHA mandates that personal protective equipment be used.

Once the need for PPE is established, a careful evaluation of the hazards is necessary so that a selection can be made that minimizes user risk. For chemical situations, knowing the hazard includes being aware of the type of chemical; its physical state, whether it is liquid, solid or gas; and physiological effects, whether they are caused by toxins, carcinogens, asphyxiation, or corrosives. Knowing the level of exposure is also important. The requirements for each type of personal protective equipment as well as additional selection criteria, are described below.

Eye and Face Protection

Protective safety glasses, goggles, and face shields are required where machines or operations create flying objects, glare, liquids, injurious radiation, or a combination of these hazards. Goggles offer the most complete impact protection because they form a seal around eye areas, keeping out dangerous objects. They also prevent tiny dust particles, chemical splashes and vapors from getting in eyes. Eye and face devices bought after July 5, 1994, must comply with the ANSI Z87 standard that was updated to reflect current additions.

Head Protection

20 CFR 1910.135 (a)(1) states that each employee must wear a protective helmet when working where falling objects could cause head injuries. The standard also covers electrical hazard conditions. Although the OSHA standard does not identify specific occupations or applications where head protection is required, it does address the topic under a nonmandatory appendix, Appendix B, Subpart I: nonmandatory compliance guidelines for hazard assessment and personal protective equipment selection. It also provides examples of general applications during which head protection should be worn. Helmets bought after July 5, 1994, must comply with the performance guidelines in ANSI Z89.1-1986, American National Standards Institute for personal protection-protective headwear for industrial workers' requirements. In 2003, the ANSI Z89 standard was updated.

Foot Protection

According to 1910.136(a), each affected employee should wear protective footwear in areas where falling objects, rolling objects, or objects that might pierce a sole could cause foot injuries, and where feet are exposed to electrical hazards.

Hand Protection

Employers must select appropriate hand protection for employees exposed to hazards such as those from skin absorption or harmful substances, severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns, and temperature extremes. When choosing the proper glove, it is necessary to match material with each application or task. This includes assessing the job for chemical exposures and then selecting the appropriate glove based on material, thickness, length, and other traits.

Clothing

Chemical resistance and suit design need to be considered when selecting the appropriate protective clothing. Chemical-resistance data is frequently published and available from many manufacturers and distributors. A manufacturer might also have unpublished data available. A suit design addresses how the garment is assembled, designed, and fits. Suits also might be selected for durability or their disposable materials depending on the chemical and its permeation and breakthrough data.

Respiratory Protection

The revised personal protective equipment standard does not apply to respirators. Respirators are governed by the respiratory protection standard, 29 CFR 1910.134. A system of local and/or general exhaust is recommended to keep exposure below the airborne exposure limits. If the exposure limit is exceeded, a half-face or full-face air purifying respirator with a cartridge may work up to 10 times the exposure limit or to the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

For emergencies or instances where exposure levels are unknown, use a full-face, pressure-demand supplied-air respirator with an egress bottle. A self-contained breathing apparatus also is appropriate.

As with any personal protective equipment, employees must be trained in several aspects of PPE. These include when PPE must be worn; what type of PPE is necessary; how to properly don, adjust, wear, and remove the PPE; limitations of PPE; PPE care and maintenance; and useful life and disposal of PPE. In addition, hazardous areas must undergo a hazard assessment any time there is a process change, when new equipment is used, or when accident statistics point to a problem area.

Chemical Storage and Handling

Chemicals play an important role in many aspects of wastewater treatment. Minimizing the quantity of stored chemicals such as chlorine can reduce the inherent hazards of chemicals. However, when chemicals must be retained, in-house proper storage and handling can reduce or eliminate risks. Chemicals should be properly labeled and stored according to information specified on the material safety data sheet (MSDS). Emergency equipment should also be considered when storing or handling chemicals. The equipment includes first aid supplies, emergency phone numbers, eye wash and shower facilities, fire extinguishers, spill cleanup supplies, and personal protective equipment, all of which should be readily available.

Lab/Environmental Sampling

Practicing safety in the laboratory involves more than just keeping your lab area clean and wearing your proper protective equipment. It requires the cooperation and involvement of everyone associated with laboratory work. 29 CFR 1910.1450 (Occupational exposures to hazardous chemicals in laboratories) provides strict guidelines for laboratory safety. Key components of the standard include having a chemical hygiene plan and providing employees with training and information.

Wastewater treatment includes testing for pH, turbidity, dissolved chemicals, hardness, color, alkalinity, chlorine, ammonia, and fluoride. This testing involves following EPA-designated test procedures. Maintaining and controlling levels is essential to the wastewater treatment in order to produce safe drinking water. The first step in controlling these levels is measuring it. For example, pH can be measured by various methods including pH paper, digital readout pocket testers, and portable and benchtop meters. In wastewater treatment facilities, portable meters are a better choice because most portable meters are larger than pocket testers, are more durable, and are better suited for accurate pH readings in the field.

Wastewater treatment operations fall under many specific regulations that apply to all site personnel. Developing written wastewater treatment facility safety guidelines that are specific to the worksite is critical for compliance. Regardless of the many safety issues that pertain to wastewater treatment workplaces, training and enforcing the safety procedures and processes are critical to employee safety.

Sources

OSHA
Confined Spaces, 29 CFR 1910.146
Fall Protection and Walking/Working Surfaces, 29 CFR 1926.500 (Subpart M)
Guarding Floor and Wall Openings and Holes, 29 CFR 1910.23
Hazard Communication, 29 CFR 1910.1200
Ladder-Safety Devices, 29 CFR 1910.27(d)(5)
Laboratory Standard, 29 CFR 1910.1450
Lockout/Tagout, 29 CFR 1910.147
Personal Protective Equipment, 29 CFR 1910.132-138

(Rev. 1/2012)

SINCE 1977
DOUBLE-TREE
INC.

WATER AND WASTEWATER
TREATMENT PLANTS
DESIGN • BUILD • OPERATE

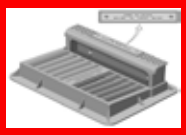
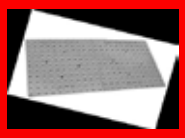
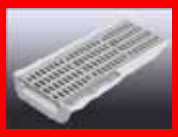
Bozeman, Montana
admin@doubletreemt.com

Williston, North Dakota
Office: (406)587-0994

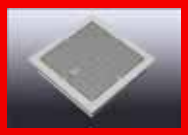
Visit www.doubletreemt.com for more information!
"Responsible Growth Respecting the Environment"

ESS BROTHERS & SONS, INC. SERVING 6 GENERATIONS

Manhole Castings

Catch Basin Castings

Truncated Domes

Trench Grating

Paving Rings

Tree Grating

Access Hatches

Fabricaton Products

Sediment Collection

Saw Blades

Infra Safe DCD

Wimco Sediment Control Products

CALL TODAY FOR THE ONE STOP SHOP ON ALL YOUR CONSTRUCTION NEEDS, GREAT CUSTOMER SERVICE AND WE DELIVER TOO!

Manhole Insert

Flex-Seal

Aqua Seal

MANHOLE INFILTRATION SOLUTIONS

Gator Wrap

Infi-Shield

ESS BROTHERS & SONS, INC. SINCE 1867

Ess Brothers & Sons, Inc.— Construction Specialists for 145 Years!
9350 County Road 19 ♦ Loretto, MN 55357 ♦ 763-478-2027 ♦ www.essbrothers.com

ESS BROTHERS & SONS, INC. SINCE 1867

2012 Conference Attendance List

Jeremy Aasen
City of Thompson
PO Box 266
Thompson, ND 58278

Chuck Abel
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Don Ahlschlager
Moore Engineering, Inc.
2730 30th St NW, Ste B
Minot, ND 58703

Steve Ahlschlager
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Brian Anderson
Cretex Concrete Products
925 Basin Ave
Bismarck, ND 58504

Rick Anderson
Central Plains Water District
1380 Hwy 30
Cathay, ND 58422

Pedar Andre
City of Williston
PO Box 2437
Williston, ND 58802-2437

Robert Annon
City of Cathay
123 4th Ave
Cathay, ND 58422

Lisa Ansley
AE_2S
1815 Schafer St, Ste 301
Bismarck, ND 58501

Rodney Arness
City of Minot
515 2nd Ave SW
Minot, ND 58701

Sheldon Avery
U.S. Air Force - Minot
PO Box 326
Glenburn, ND 58740

Kevin Bachman
U.S. Air Force Base - Minot
1400 Appaloosa Way NE
Minot, ND 58703

Jared Baier
City of Minot
515 2nd Ave SW
Minot, ND 58701

Craig Bartholomay
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Ben Basol
City of Portland
14855 1st St NE
Portland, ND 58274

James Bauer
U.S. Air Force Base - Minot
1602 Terrace Dr #303
Minot, ND 58703

Rodney Beck
USDA Rural Development
PO Box 1737
Bismarck, ND 58502

Randy Belanger
Visu-Sewer, Inc.
W230 N4855 Betker Drive
Pewaukee, WI 53072-0804

Paul Bercier
U.S. Air Force Base - Minot
PO Box 955
Belcourt, ND 58316

Mike Berg
Apex Engineering Group
600 S 2nd St Ste 145
Bismarck, ND 58504

Dave Bergsagel
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Kenny Bergstrom
City of Williston
PO Box 2437
Williston, ND 58802-2437

Al Berreth
Larson Data
Communications, Inc.
305 N Lawler St
Mitchell, SD 57301

Josh Beste
City of Fargo
524 45th St SW, Apt 206
Fargo, ND 58103

James Beu
Bio-Microbics
8450 Cole Parkway
Shawnee, KS 66227

Alan Beyreis
City of Garrison
PO Box 385
Garrison, ND 58540

Upcoming Conference Dates:

2013 - Grand Forks, October 22, 23, and 24
Alerus Center

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

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

4557 15th Ave N
Fargo, ND 58102
Phone: 800-437-4034
Fax: 701-237-9609
www.fgoh2o.com

FGOH2O INC.
FARGO WATER EQUIPMENT

Services/Products:
PVC Pipe and Fittings, American Ductile Iron Pipe, UGSI Fusible PVC Pipe, HDPE Pipe, TDW Fusion Equipment, A.Y.McDonald Brass, American Flow Control Hydrants and Valves, Power Seal Saddles & Couplings, Hymax Couplings, Sensus Water Meters and Systems, HDPE Dual Wall Pipe, Hobas Pipe.

Area served: Minnesota and North Dakota

Peter Bilstad
City of Fargo
3400 N Broadway
Fargo, ND 58102

Mark Blonigen
City of Fargo
3400 N Broadway
Fargo, ND 58102

Todd Boechler
City of Minot
515 2nd Ave SW
Minot, ND 58701

Terry Boehm
Kadrmas, Lee & Jackson
128 Soo Line Dr
PO Box 1157
Bismarck, ND 58502

Grady Boozer, Jr.
City of Cathay
PO Box 27
Cathay, ND 58422

Greg Boppre
Widseth Smith Nolting
1600 Central Ave NE
E Grand Forks, ND 56721

Dean Boreen
City of Fargo
740 1st St N
Fargo, ND 58102

Neil Breidenbach
Grand Forks-Traill Rural Water
PO Box 287
Thompson, ND 58278

Clarence Brendel
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Mike Brisben
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Barrett Brown
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

David Bruschwein
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Kevin Bucholz
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Gary Buelow
City of Mohall
PO Box 476
Mohall, ND 58761

Mel Bullinger, P.E.
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Anthony Burianek
City of Grafton
PO Box 578
Grafton, ND 58237

Casey Byram
City of Cando
PO Box 652
Cando, ND 58324

Patricia Carman
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Travis Carufel
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Darrell Casteel
AE^2S
1815 Schafer St Ste 301
Bismarck, ND 58501

Nathan Charging
Three Affiliated Tribes
4 1st Ave W
Roseglen, ND 58775

Shawn Christensen
South Central Regional Water District
4341 Claridge Loop
Bismarck, ND 58503

David Christianson
Great River Energy
2875 3rd St SW
Underwood, ND 58576

Danny Clark
City of Carson
PO Box 223
Carson, ND 58529

Ben Clarys
Williams Rural Water District
PO Box 1285
Williston, ND 58802-1285

Clint Cogdill
ND State Water Commission
900 E Boulevard
Bismarck, ND 58505

Antonio Conti
AE_2S
1115 16st SW Ste 2
Minot, ND 58701

Amanda Cross
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Del DeBoer
AE2S
3170 43rd St S Ste 100
Fargo, ND 58104

Tyson Decker
Bartlett & West, Inc.
3456 E Century Ave
Bismarck, ND 58503

Keith Demke
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Rock Desautel
City of Grafton
PO Box 129
Grafton, ND 58237

Brian DeWolf
Vessco, Inc.
8217 Upland Circle
Chanhassen, MN 55317

Travis Dillman
Interstate Engineering, Inc.
PO Box 2035
Jamestown, ND 58402

Eric Dodds
AE_2S
3170 43rd St Ste 100
Fargo, ND 58104

Dave Dodge
Fischer, Harris & Associates
5865 Neal Ave N Ste 335
Stillwater, MN 55082

Lorne Duppong
Ferguson Waterworks
PO Box 2519
Bismarck, ND 58502-2519

Tom Dye
Stantec Consulting Services, Inc.
2335 W Hwy 36
St. Paul, MN 55113

Richard Edgar
Wells Concrete
5000 Demers Ave
Grand Forks, ND 58201

Tracy Ekola
Short-Elliott-Hendrickson, Inc.
1200 25th Ave S
St. Cloud, MN 56301

Mike Ell
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Cindy W Ellis
Watkins Engineering, Inc.
PO Box 50036
Billings, MT 59105

John Erickson
UND
1004 S 30th St
Grand Forks, ND 58201

Matt Erickson
UND
1004 S 30th St
Grand Forks, ND 58201

Tracy Eslinger, P.E.
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Alan Estvold
Ackerman-Estvold Eng.
1101 15 1/2 Ave SW
Minot, ND 58701

Craig Evenson
City of Fargo
435 14th Ave S
Fargo, ND 58103

Eugene Farstad
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Justin Feld
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Joe Ferguson
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206-5200

Dennis Fewless
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Lydia Fewless
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Greg Ficek
Kadrmas, Lee & Jackson
PO Box 290
Dickinson, ND 58601

John Fisher
Short-Elliott-Hendrickson, Inc.
3535 Vadnais Ctr Dr
St. Paul, MN 55110

Tony Fisher
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Derek Flaten
UND
1004 S 30th St
Grand Forks, ND 58201

Todd Flynn
City of Ellendale
PO Box 267
Ellendale, ND 58436

Tim Folden
City of Sawyer
PO Box 227
Sawyer, ND 58781

Todd Forbord
City of Grafton
PO Box 578
Grafton, ND 58237

Tim Freije
ND State Water Commission
900 E Boulevard Ave
Bismarck, ND 58505

Duane Friesz
City of Mandan
1994 38th St
Mandan, ND 58554

Matt Fritze
Engineering America, Inc.
647 Hale Ave N
Oakdale, MN 55128

Dane Fuchs
City of New Salem
1700 Ash Ave
New Salem, ND 58563

Jeron Fueller
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Richard Fuller, Jr.
ND Sewage Pump & Lift Station
1734 Main Ave E
West Fargo, ND 58078

Bill Gefroh
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Darlene Germain
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Rick Gillund
City of Enderlin
411 Railway St
Enderlin, ND 58027

Bill Giuliani
Interstate Engineering, Inc.
2610 Old Red Trail
Mandan, ND 58554-1447

Dan Graber
HDR Engineering, Inc.
6300 S Old Village Place, Ste 100
Sioux Falls, SD 57108

Rob Gravatt
Engineering America, Inc.
647 Hale Ave N
Oakdale, MN 55128

John Green
HDR Engineering, Inc.
6300 S Old Village Pl
Ste 100
Sioux Falls, SD 57108

Roger Grimsley
AE_2S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Dallas Grossman
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Larry Gruenberg
Great River Energy
PO Box 266
Washburn, ND 58577

Harvey Gullicks
UND Civil Engineer Dept.
1004 S 30th St
Grand Forks, ND 58201

Corinne Haase
Moore Engineering, Inc.
2730 30th St NW, Ste B
Minot, ND 58703

Rick Hair
City of Minot
515 2nd Ave SW
Minot, ND 58701

Brent Halarewich
PTI Group, Inc.
1131 Falconer Rd
Edmonton, AB T6R 2G6

John Hamilton, P.E.
SBL Associates
PO Box 29
Trenton, ND 58853

Bob Hanson
City of Williston
PO Box 2437
Williston, ND 58802-2437

Stacey Hanson
NDDOT
608 E Boulevard Ave
Bismarck, ND 58505

Don Hartman
City of Wildrose
PO Box 703
Wildrose, ND 58795

Gary Hasbargen
City of Wahpeton
PO Box 490
Wahpeton, ND 58074

Forrest L. Haug
City of Grand Forks
PO Box 5200
Grand Forks, ND 58201

Chris Haugrud
Sanitation Products, Inc.
1402 41st St NW
Fargo, ND 58102

Susan Hazelett
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Dale Heglund
Cretex Concrete Products
925 Basin Ave
Bismarck, ND 58504

Troy Heimerl
Electric Pump
1434 5th Ave N
Fargo, ND 58102

Dale Heinert
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Shawn Heinle
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Jeff Heintz
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Gaylen Helgeson
U.S. Air Force-Minot
2421 Blake Rd
Minot, ND 58703

Tom Helmer
Quality Flow Systems, Inc.
800 6th St NW
New Prague, MN 56071

Deanna Henderson
Itron
2111 N Molter Rd
Liberty Lake, WA 99019

Jack Hendrickson
Fargo Water Equipment
4557 15th Ave N
PO Box 128
Fargo, ND 58102

Wade Hesch
City of Valley City
840 3rd Ave NE
Valley City, ND 58072

Steve Himmelspach
City of Mandan
205 2nd Ave NW
Mandan, ND 58554

Justin Hochhalter
HD Supply Waterworks
407 72nd St SE
Minot, ND 58701

Jeff Hoff
City of Fargo
69 East Lynmar
Fargo, ND 58102

David Hogie
Pristine Water Solutions
341 Coolidge St
Anoka, MN 55303

Laren Holznagel
Great River Energy
PO Box 372
Washburn, ND 58577

Leslie Horgan
Self-Employed
705 9th Ave SW
Jamestown, ND 58401

Darrell Hournbuckle
Interstate Engineering, Inc.
PO Box 2035
Jamestown, ND 58402

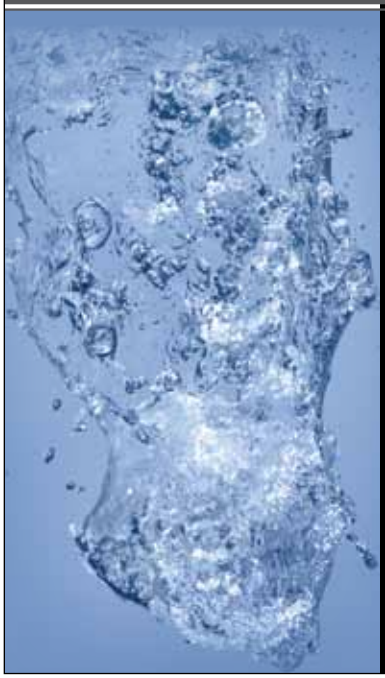
Dennis Howey
City of Gwinner
PO Box 425
Gwinner, ND 58040

Jeff Hruby
AE_2S
1815 Schafer St Ste 301
Bismarck, ND 58501

Jim Hubbard, P.E.
Interstate Engineering, Inc.
PO Box 2035
Jamestown, ND 58402

Water Treatment is Our Business

HAWKINS Water Treatment Group



Hawkins Water Treatment Group has been meeting the requirements of commercial, industrial, municipal and institutional organizations since 1938.

Fargo, ND
701-293-9618

Washburn, ND
701-462-8588

Nancy Huether, P.E.
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Matt Huggins
Advanced Pump &
Equipment, Inc.
1408 Gold Ave #6
Bozeman, MT 59715

Kevin Huson
Quality Flow Systems, Inc.
800 6th St NW
New Prague, MN 56071

Jeff Janiksela
Electric Pump
1434 5th Ave N
Fargo, ND 58102

Steven Jensen
City of Williston
PO Box 2437
Williston, ND 58802-2437

Jeff Jezzard
Vector Construction, Inc.
3814 3rd Ave NW
Fargo, ND 58102

Andrew Job
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Brett Jochim
AE_2S
1815 Schafer St, Ste 301
Bismarck, ND 58501

Barry Johnson
City of West Fargo
810 12th Ave NW
West Fargo, ND 58078

Wayne Johnson
The Ford Meter Box Company
13685 Couchtown Ave
Rosemount, MN 55068-
4711

Dan Jonasson
City of Minot
515 2nd Ave SW
Minot, ND 58701

Tom Jones
City of Minot
515 2nd Ave SW
Minot, ND 58701

Gene Jordan
Fargo Water Equipment
4557 15th Ave N
Fargo, ND 58102

Brian Julius
Moore Engineering, Inc.
2730 30th St Nw, Ste B
Minot, ND 58703

Pete Kaliher
City of Minot
515 2nd Ave SW
Minot, ND 58701

Rod Kalis
City of Grand Forks
621 Schroeder Dr
Grand Forks, ND 58201

Murthy Kasi
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Tim Keen
Northwest Pipe Company
1923 Springtree Dr.
Martland Heights, MO
63043

Kevin Kelly
City of Minot
515 2nd Ave SW
Minot, ND 58701

George Kemper
Kemper Construction Co.
PO Box 8
Minot, ND 58702

Wayne Kern
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Scott Kinsella
Hawkins, Inc.
2001 Great Northern Dr
Fargo, ND 58102

Andy Kitchen
Civil Science
222 Airport Rd, Ste A
Williston, ND 58801

Chad Kjelland
Cass Rural Water
Users District
PO Box 98
Kindred, ND 58051

Travis Klabo
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Miranda Kleven
AE_2S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Roger Kluck, PE
Minot State University
500 University Ave W
Minot, ND 58707

Kolten Knatterud
Territorial Landworks, Inc.
306 N 2nd St
Fairview, MT 59221

Gene Koontz
Gannett Fleming, Inc.
813 Michigan Ave
Lemoyne, PA 17043

Charles Koval
Cargill, Inc.
1024 7th Ave N
Wahpeton, ND 58078

David Kratochvil
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206-

Dave Kresel
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

David Kretschmar
City of Ashley
PO Box 174
Ashley, ND 58413

Waide Kritsky
Ackerman-Estvold Eng.
1600 5th St SE
Minot, ND 58701

Brad Krogstad
Kadrmas, Lee & Jackson
128 Soo Line Dr
PO Box 1157
Bismarck, ND 58502

Mark Krogstad
City of Rugby
301 SW 2nd St
Rugby, ND 58368

Don Krueger
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Tim Krueger
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Greg Labelle
Home On The Range
16351 I-94
Sentinel Butte, ND 58654

Chris Larson
Short-Elliott-Hendrickson, Inc.
3535 Vadnais Ctr Dr
St. Paul, MN 55110

Dan Larson
Moore Engineering, Inc.
2730 30th St NW Ste B
Minot, ND 58703

Dennis Larson
City of Park River
133 Wadge Ave S
Park River, ND 58270

Gregory Larson
R & T Water Supply Association
PO Box 126
Ray, ND 58849-0126

Mike Larson
Larson Data Communications, Inc.
305 Lawler St N
Mitchell, SD 57301

Jamie Latta
Advanced Pump & Equipment, Inc.
1408 Gold Ave #6
Bozeman, MT 59715

Eric Laurin
Coe & Van Loo Consultants
PO Box 1556
Stanley, ND 58784

Jeremey Lay
Bartlett & West, Inc.
607 Sierra Ridge Ave
Pacific, MO 65109

Sheri Lee
City of Sharon
PO Box 36
Sharon, ND 58277

Eric Lehmann
Hach Company
4119 Hall St
Rapid City, SD 57702

Jim Lennington
Bartlett & West, Inc.
3456 E Century Ave
Bismarck, ND 58503

Keith Leopold
Minn-Dak Farmers Cooperative
8028 Myron Rd
Wahpeton, ND 58075-9698

Butch Lesmeister
City of New Rockford
211 1st Ave NE
New Rockford, ND 58356

Paul Levchak
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Wei Lin
NDSU, Civil Engineering Department
238 Prairiewood Dr
Fargo, ND 58103

Tyler Livingston
Great River Energy
2814 Douglas Pl
Underwood, ND 58554

Glen Lueck
Midwest Assistance Program
PO Box 3
Lidgerwood, ND 58053

Katie Luther
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Seth Lynne
Apex Engineering Group
4733 Amber Valley Parkway S
Fargo, ND 58104

Malcolm Macdonald
Dakota Supply Group, Inc.
4500 Carloine Dr
Bismarck, ND 58501

Brian Mager
UND
1004 S 30th St
Grand Forks, ND 58201

Ryan Malsam
City of Mandan
205 2nd Ave NW
Mandan, ND 58554

Steve Manning, P.E.
SBL Associates
PO Box 29
Trenton, ND 58853

Bob Markhouse
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Shannon Marmon
City of Minot
515 2nd Ave SW
Minot, ND 58701

Kevin Martin
Houston Engineering, Inc.
3712 Lockport St
Bismarck, ND 58503

Kevin Martin, PLS, P.E.
Bartlett & West, Inc.
3456 E Century Ave
Bismarck, ND 58503

Andy Mastel
Advanced Drainage Systems
4111 Bayport Pl SE
Mandan, ND 58554

Jeff Mattern
ND State Water Commission
900 E Boulevard Ave
Bismarck, ND 58505

Karen Mattoon
Great River Energy
2875 3rd St SW
Underwood, ND 58576

Kevin Mayer
City of Casselton
503 Martins Ave
Casselton, ND 58012

Andy McDonald
North Dakota Rural Water Systems Association
2718 Gateway Ave #201
Bismarck, ND 58503

Bill McQuiston
City of Williston
PO Box 2437
Williston, ND 58802-2437

Jared Medhus
Sanitation Products, Inc.
1402 41st St NW
Fargo, ND 58102

Keith Meidinger
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Tim Meidinger
City of Mandan
205 2nd Ave NW
Mandan, ND 58554

Monte Meiers
City of Williston
PO Box 2437
Williston, ND 58801

Gary Metzler
Van Bergen & Markson, Inc.
8814 7th Ave N
Minneapolis, MN 55427

Kyle Meyer
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Lance Meyer
City of Minot
515 2nd Ave SW
Minot, ND 58701

Tyler Michel
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Dennis Miranowski
Stantec Consulting Services, Inc.
2335 W Hwy 36
St. Paul, MN 55113

Chuck Mischel
ND Rural Water Systems Association
2718 Gateway Ave Ste 201
Bismarck, ND 58503

Ken Miskavige
City of Grafton
710 E 10th St
Grafton, ND 58237

Chad Mittleider
City of Langdon
1014 4th St
Langdon, ND 58249

Mike Moeller
Dakota Pump & Control, Inc.
705 Quadee Dr SW
Watertown, SD 57201

Jeff Monson
Great River Energy
2875 3rd St SW
Underwood, ND 58576

Frank Mosser
City of Maddock
PO Box 3
Maddock, ND 58348

Mark Moszer
City of Bismarck
4806 Driftwood Ln
Bismarck, ND 58503

Gina Mottl
City of Willison
PO Box 2437
Williston, ND 58802-2437

Jerry Myers
DN Tanks
4247 Grove Ave
Gurnee, IL 60031

Bob Nicol
Infrastructure Products, Inc.
10110 28th Ave N
Plymouth, MN 55441-3217

Tom Nielson
City of Mayville
212 3rd St NE
Mayville, ND 58257

Cavin Noddings
Mishler Sales
PO Box 81348
Billings, MT 59108

Laurie Nostdahl
Great River Energy
87 40th Ave NW
Underwood, ND 58576

Ken Nysether
Bartlett & West, Inc.
3456 E Century Ave
Bismarck, ND 58503

John Oczak
Griffin Pipe Products
2098 Parkview Lane
Woodbury, MN 55125

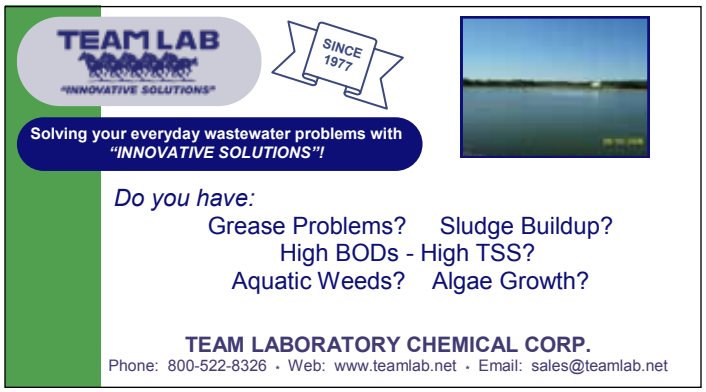
Michael Odam
General Electric
3239 Dundas St W
Oakville, ON L6M 4B2

Wayne Offerdahl
City of Fargo
3400 N Broadway
Fargo, ND 58103

Chris Okeson
Ferguson Waterworks
1917 1st Ave N
Fargo, ND 58102

John Olson
Olson Engineering
PO Box 1062
Devils Lake, ND 58301

John Olson
City of Rolla
PO Box 1200
Rolla, ND 58367-1200



Keith Olson
City of Harvey
120 W 8th St
Harvey, ND 58341

Rick Olson
Williams Rural Water District
PO Box 1285
Williston, ND 58802-1285

Scott Olson
Apex Engineering Group
600 S 2nd St Ste 145
Bismarck, ND 58504

Karla Olson, P.E.
Apex Engineering Group
4733 Amber Valley Parkway S
Fargo, ND 58104

Mike O'Neill
Prinsco, Inc.
1717 16th St NE
Willmar, MN 56201

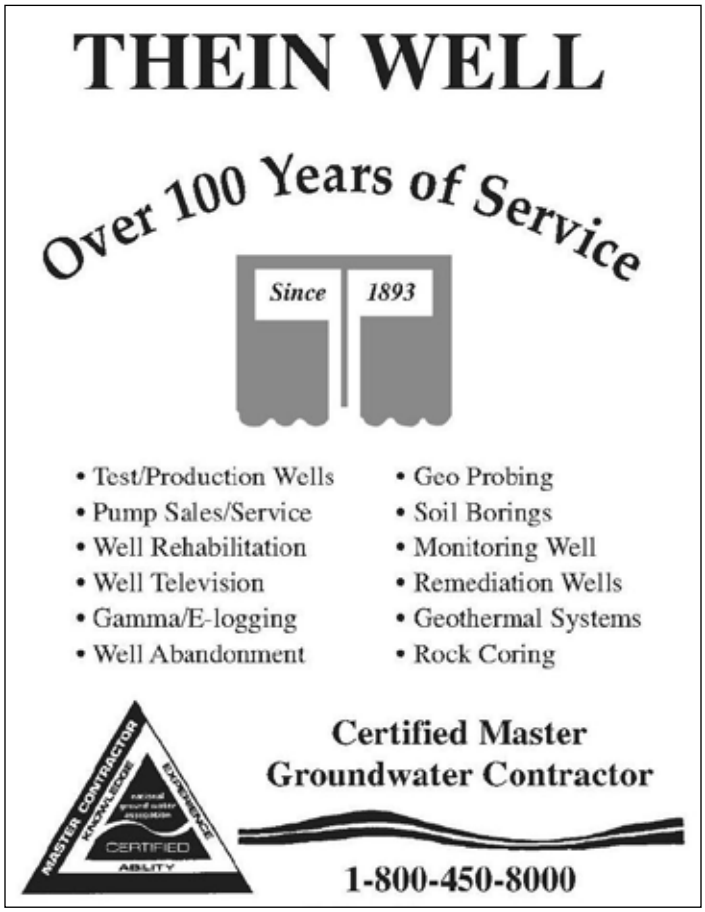
Dave O'Shea
Houston Engineering, Inc.
720 Western Ave
Minot, ND 58701

Linda Oster
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Mark Paddock
City of Minot
515 2nd Ave SW
Minot, ND 58701

Hristro Papalichev
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Phil Parsons
Parsons Engineered Products, Inc.
5051 Hwy 7 Ste 290
St. Louis Park, MN 55416



Melanie Parvey
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206-5200

Tim Paustian, P.E.
Apex Engineering Group
4733 Amber Valley Parkway S
Fargo, ND 58104

Doug Pearson
U. S. Air Force Base - Minot
17601 13th St NE
Glenburn, ND 58740-9590

Bob Pederson
Minot Water Treatment Plant
515 2nd Ave SW
Minot, ND 58701

Alice Pekarski
City of Montpelier
PO Box 24
Montpelier, ND 58472-0024

Delron Peters
HDR Engineering, Inc.
6300 S Old Village Pl
Ste 100
Sioux Falls, SD 57108

Colleen Peterson
City of Bismarck
601 S 26th St
Bismarck, ND 58506-5503

Mark Peterson
City of Fargo
435 14th Ave S
Fargo, ND 58102

Matt Petron
City of Minot
PO Box 5006
Minot, ND 58703

Tim Petz
Innovative Treatment Systems
8450 Cole Parkway
Shawnee, KS 66227

Sindhuja Pillai-Grinolds
ND State Water Commission
900 E Boulevard Ave
Bismarck, ND 58501

Randy Pope
Interstate Engineering, Inc.
PO Box 667
Wahpeton, ND 58074

Tom Potter
City of Williston
PO Box 2437
Williston, ND 58802-2437

John Prock
Red Flint & Sand & Gravel
One American Blvd
Eau Elaire, WI 54701

Percy Puppe
City of Grafton
PO Box 578
Grafton, ND 58237

Michael Quamme
NDSU
1005 7th Ave N Apt. C
Fargo, ND 58102

Meredith Quinn
AE_2S
4050 Garden View Dr Ste 200
Grand Forks, ND 58201

Lyle Ranstrom
Ferguson Waterworks
1917 1st Ave N
Fargo, ND 58102

Scott Rask
Billings Cnty School Dstr.
108 1st Ave SE
Belfield, ND 58622

Wes Rasmussen
City of Minot
515 2nd Ave SW
PO Box 5006
Minot, ND 58702-5006

Dean Rau, P.E.
Interstate Engineering, Inc.
51 Hwy 16
Glendive, MT 59330

Jeff Reiser
MVTL Laboratories, Inc.
2616 E Broadway Ave
Bismarck, ND 58501

Mike Ritteman
ND Rural Water Systems Association
PO Box 603
Lakota, ND 58344

Kent Ritterman
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Grace Rixen
Southwest Water Authority
4665 2nd St SW
Dickinson, ND 58601-7231

Stephen C. Roberts
S. Roberts Co./GE W&PT
17575 Bearpath Tr.
Eden Prairie, MN 55347

Chip Robinson
Stantec Consulting Services Inc.
2335 W Hwy 36
St. Paul, MN 55113

Karl Rockeman
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Jeff Roerick
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Rusten Roteliuk
Material Testing Services, LLC
PO Box 634
Minot, ND 58702

Jerry Ruiz
U.S. Air Force Base - Minot
502 Dundee Dr
Minot, ND 58704

Chris Ruskamp
American Flow Control
123 Airview Dr
Sgt Bluff, IA 51054

Terry Rust
City of West Fargo
810 12th Ave NW
West Fargo, ND 58078

Darwin Saari
City of Turtle Lake
PO Box 338
Turtle Lake, ND 58575

Abraham Salamzadeh
Tech Sales Co.
311 W 44th St
Minneapolis, MN 55409

Randy Sand
City of Tuttle
PO Box 83
Tuttle, ND 58488

Jason Sanden
AE_2S
3170 43th St S Ste 100
Fargo, ND 58104

Kris Sayne
Advanced Drainage Systems
6582 Co Rd 4w SW
Alexandra, MN 56308

Dan Schaefer
All Seasons Water Users District
1066 Hwy 5 NE
Bottineau, ND 58318-7104

Scott Schaefer
AE_2S
6901 E Fish Lake Rd Ste 184
Maple Grove, MN 55369

Darin Schaeffer
Bartlett & West, Inc.
3456 Century Ave E
Bismarck, ND 58503

Erick Schantz
City of Mandan
1994 38th St
Mandan, ND 58554

Terry Schiro
Vessco, Inc.
8217 Upland Circle
Chanhassen, MN 55317

WE PROVIDE OUR CUSTOMERS WITH THE PEACE OF MIND THAT THEIR JOBS WILL BE DONE RIGHT

REPUTATION
Just one of the core values we live by every day at
Visu-Sewer, Inc.
Inspect. Maintain. Rehabilitate.
800-876-8478 www.visu-sewer.com

Darryl Schmidt
Great River Energy
14920 Sundown Dr
Bismarck, ND 58503

Gary Schmidt
City of Mandan
1994 38th St
Mandan, ND 58554

Kevin Schmidt
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Randy Schmidt
Ferguson Waterworks
1201 Airport Rd
Bismarck, ND 58504

Scott Schmidt
Ferguson Waterworks
1201 Airport Rd
Bismarck, ND 58504

Scott Schneider
Apex Engineering, Inc.
600 S 2nd St Ste 145
Bismarck, ND 58504

Jeremy Schuler
Langdon Rural Water District
PO Box 567
Langdon, ND 58249

Reed Schwartzkopf
City of Jamestown
102 3rd Ave SE
Jamestown, ND 58401

Dave Schwengler
Houston Engineering, Inc.
3712 Lockport St
Bismarck, ND 58503

Dustin Scott
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Jamie Scott
City of Mandan
2705 8th Ave SE
Mandan, ND 58554

Eric Seibold
Wahpeton City of
1900 4th St N
Wahpeton, ND 58075

John Selvog
Infratech
21040 Commerce Blvd.
Rogers, MN 55374-9341

Donald Selzler
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Wade Senger
Interstate Engineering, Inc.
1903 12th Ave SW
Jamestown, ND 58401

Jim Sepp
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Bob Shelstad
Ferguson Water Works
1917 1st Ave N
Fargo, ND 58102

Miles Sherman
General Electric
3239 Dundas St W
Oakville, ON L6M 4B2

Sam Shutt
City of Minto
528 6th St
Minto, ND 58261

Tom Sieg
North Dakota Rural Water
Systems Association
1921 32nd St NE
Anamoose, ND 58710

Les Sigette
North Dakota Rural Water
Systems Association
PO Box 172
McVille, ND 58254

Joel Simon
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Dean Sletten
Moore Engineering, Inc.
925 10th Ave E
West Fargo, ND 58078

Hazel Sletten
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Van Bergen & Markson, Inc.
A Clear Solutions Technology Company

Environmental Process Equipment for Water and Wastewater Treatment

• Aeration • Blowers • Chemical Feed
• Clarification • Dewatering • Digestion
• Disinfection • Filtration • Grit Removal
• Instrumentation • Mixers • Odor Control
• Pumping Equipment • Screens
• Sludge Handling • Solids Reduction

800-422-0791 763-546-4340
Fax: 763-546-0973

8814 Seventh Ave. N.
Minneapolis, MN 55427

Email: info@vbminc.com

Engineering America

Tony Belden
Cell: 612-868-1097
tbelden@engamerica.com

Rob Gravatt
Cell: 605-212-0821
rgravatt@engamerica.com

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

South Dakota Office: 3530 14th Ave. NW, Watertown, SD 57201
Ph/Fax: 605-886-4224 • www.engamerica.com

Tim Sloboden
City of Minot
515 2nd Ave SW
Minot, ND 58701

David Smith
City of New England
PO Box 130
New England, ND 58647

Mark Smith
HD Supply Waterworks
407 72nd St SE
Minot, ND 58701

Walt Smith
AE_2S
PO Box 2013
Dickinson, ND 58601

Luci Snowden
ND Department of Health
918 E Divide Ave 4th Fl
Bismarck, ND 58501-1947

Jarda Solc
AE_2S
4050 Garden View Dr Ste 200
Grand Forks, ND 58201

Jason Sorenson
City of Minot
515 2nd Ave SW
Minot, ND 58701

Russ Sorenson
AE_2S
1815 Schafer St Ste 301
Bismarck, ND 58501

Tracy Steen
City of Minot
515 2nd Ave SW
Minot, ND 58701

Gary Stefanovsky
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Todd Stelmacher
Visu-Sewer, Inc.
W230 N4855 Betker Dr
Pewaukee, WI 53072-0804

Delvin Stemen
City of Burlington
19 Colton Ave Apt 5
Burlington, ND 58722

Dan Stepan
UND EERC
15 N 23rd St Stop 9018
Grand Forks, ND 58202-9018

Tim Stetz
Fargo Water Equipment
4557 15th Ave N
Fargo, ND 58102

Ken Stevenson
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Gregg Stewart
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Deon Stockert
AE_2S
PO Box 2023
Dickinson, ND 58601

Brock Storrusten, P.E.
Moore Engineering, Inc.
2730 30th St NW, Ste B
Minot, ND 58703

T.J. Stroebl
Tonka Equipment Co.
13305 Watertower Cir
Plymouth, MN 55441

Bill Sukalski
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Gary Syverson
Team Lab
Box 1467
Detroit Lakes, MN 56501

Michael Tank
City of Medora
334 2nd Ave W
Dickinson, ND 58601

Zack Thein
Thein Well Company
PO Box 778
Spicer, MN 56288

Larry Thelen
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

John Thom
Short-Elliott-Hendrickson, Inc.
3535 Vadnais Ctr Dr
St. Paul, MN 55110

Adam Thomas
City of Washburn
16 Oak Ln
Washburn, ND 58577

Travis Thompson
City of Enderlin
411 Railway, St
PO Box 65
Enderlin, ND 58027

Dan Trosen
City of Carrington
103 10th Ave N
Carrington, ND 58421

Jonathon Trostad
City of McVille
PO Box 38
McVille, ND 58254

Diana Trussell
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Donald L. Tucker
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Paul Tupa
Northern Pipe Products
1302 39th St NW
Fargo, ND 58102

Shawn Udell
City of Carson
PO Box 167
Carson, ND 58529

Truman Ulland
City of Mayville
411 2nd St NW
Mayville, ND 58257

Bala Vairavan, P.E.
Ulteig Engineers, Inc.
3350 38th Ave S
Fargo, ND 58104

Charlie Vein
AE_2S
4050 Garden View Dr
Ste 200
Grand Forks, ND 58201

Alan Verbitsky
City of Minot
PO Box 5006
Minot, ND 58702

Mark Vogt
Pollution Control Systems
102 1/2 E 4th St
Vinton, IA 52349

Eric Volk
North Dakota Rural Water
Systems Association
2718 Gateway Ave Ste 201
Bismarck, ND 58503

Sarah Volk
AE_2S
1815 Schafer St Ste 301
Bismarck, ND 58201

Mark Vollmer
City of Minot
515 2nd Ave SW
Minot, ND 58701

Jess Wagner
AE_2S
3170 43rd S Ste 100
Fargo, ND 58104

Rocky Waldin
Construction Specialties
7100 Utica Ln
Chanhassen, MN 55317

Darin Waldner
Dakota Pump & Control, Inc.
705 Quadee Dr SW
Watertown, SD 57201

Alan Walter
Ackerman-Estvold Eng.
805 Bavaria Dr
Minot, ND 58701

Perry Weiner
ND State Water
Commission
900 E Boulevard Ave
Bismarck, ND 58505

Dustin Weishaar
U.S. Air Force Base - Minot
1711 S Main St
Minot, ND 58701

Tom Welle
Apex Engineering Group
4733 Amber Valley
Parkway S
Fargo, ND 58104

Travis Wesley
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

John Westereng
Ferguson Waterworks
1201 Airport Rd
Bismarck, ND 58504

John Westrum
ND Sewage Pump &
Lift Station
1734 Main Ave E
West Fargo, ND 58078

Edmund White Bear
Fort Berthold Rural Water
PO Box 571
Garrison, ND 58540

Kathy Wiedrich
City of Cathay
232 1st St
Cathay, ND 58422

Jon K. Wilczek
Kadrmas, Lee & Jackson
PO Box 290
Dickinson, ND 58601

Steve Willson
ND Sewage Pump &
Lift Station
1734 Main Ave E
West Fargo, ND 58078

Richard Winkels
City of Grand Forks
PO Box 5200
Grand Forks, ND 58206

Keith Winson
City of Maddock
PO Box 276
Maddock, ND 58348-0276

Jaret Wirtz
Western Area Water
Supply Authority
PO Box 2343
Williston, ND 58802-2343

Rachel Wolff
ND Department of Health
918 E Divide Ave 3rd Fl
Bismarck, ND 58501-1947

Brad Wright
City of Bismarck
PO Box 5503
Bismarck, ND 58506-5503

Jeff Wright
City of Mandan
411 6th Ave SW
Mandan, ND 58554

Brian Young
City of Bismarck
615 River Rd.
Bismarck, ND 58506

Chad Zander
City of West Fargo
810 12th Ave NW
West Fargo, ND 58078

Joe Zauner
Fischer, Harris &
Associates
5865 Neal Ave N Ste #335
Stillwater, MN 55082

Drinking Water Program Directory		
Program Administrator	Larry Thelen	701-328-5257
Acrylamide and Epichlorohydrin Rule	Gary Stefanovsky	701-328-5287
Arsenic Rule	Katie Luther	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	Katie Luther	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	Rachel Wolff	701-328-6375
Inspections: Southwest	Bob Markhouse	701-328-6623
Inspections: Northwest/Southwest	Shawn Heinle	701-328-6627
Lead and Copper Rule	Katie Luther	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	Katie Luther	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
Animal Feeding Operations	Brady Espe Jeremy Lang	701-328-5228 701-328-5219
Biosolids	Marty Haroldson Karl Rockeman	701-328-5234 701-328-5225
Construction Stormwater	Dallas Grossman Luci Snowden Amanda Cross	701-328-5242 701-328-5239 701-328-5244
Dewatering and Hydrostatic Testing	Marty Haroldson	701-328-5234
Discharge Monitoring Reports (DMRs)	Curt Steier Marty Haroldson Jeff Roerick	701-328-5260 701-328-5234 701-328-5240
DMR Quality Assurance (QA) Study	Marty Haroldson	701-328-5234
Industrial Pretreatment	Jeff Roerick	701-328-5240
Industrial Stormwater	Dallas Grossman Luci Snowden Amanda Cross	701-328-5242 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	Marty Haroldson	701-328-5234
Wastewater Discharge Approvals	Curt Steier Marty Haroldson Jeff Roerick	701-328-5260 701-328-5234 701-328-5240
Central Phone: 701-328-5210		**Fax: 701-328-5200**

Civil Engineering
Transportation
Environmental
Aviation
Surveying
Mining Services
Water
Wastewater
Design-build
Architecture
Planning
Community Development/ Funding

Serving clients in North Dakota, South Dakota, Nebraska, Iowa, and Minnesota.

800.325.2055 • www.sehinc.com

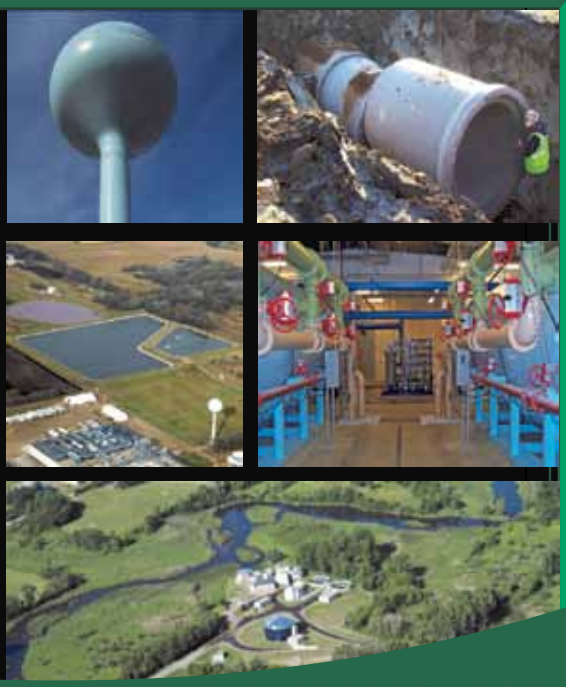
SEH

Building a Better World for All of Us™

Engineers | Architects | Planners | Scientists

INTERSTATE ENGINEERING

- Water Resource Engineering
- Solid Waste
- Municipal Engineering
- Environmental Engineering
- Land & Oilfield Surveying
- Transportation Engineering
- Site Design
- GIS
- Permitting
- Structural Engineering



Professionals you need, people you trust.

www.interstateeng.com

North Dakota | Minnesota | Montana | South Dakota

Official Bulletin
N.D. Water & Pollution Control Conference
Environmental Training Center
2639 East Main Avenue
Bismarck, ND 58501

PRSRT STD
US POSTAGE
PAID
PERMIT #433
BISMARCK, ND
ZIP CODE 58501

Apex Engineering Group
Water | Transportation | Municipal | Facilities

Fresh thinking. Practical solutions.

Fargo | 701 373 7980
Bismarck | 701 323 3950

www.ApexEngGroup.com

info@ApexEngGroup.com