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

Article II of the Constitution of the North Dakota Water and Pollution Control Conference

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

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

On the cover: North Dakota State Capitol Building

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### 2015 Annual Conference Activities

#### Small System Operator Training
- **Monday**: 8:00 a.m. - 5:00 p.m.
  - Environmental Training Center
  - 2639 E Main Ave

#### Registration
- **Tuesday**: 8:00 a.m. - 5:00 p.m.
- **Wednesday**: 8:00 a.m. - 5:00 p.m.
- **Thursday**: 8:00 a.m. - 10:00 a.m.
  - Entrance Dakota Ballroom

#### pH Certification
- **Tuesday**: 9:00 a.m. - 11:00 a.m.
  - Environmental Training Center
  - 2639 E Main Ave

#### Meals
- **Tuesday Lunch**: 11:30 a.m.
  - Courtyard

- **Tuesday Buffet**: 5:00 p.m. - 7:00 p.m.
  - Courtyard

- **Wednesday Free Buffet Breakfast**: 8:00 a.m. - 10:00 a.m.
  - Sponsored by Vendors and Suppliers
  - Dakota Ballroom

- **Wednesday Lunch**: 12:00 noon
  - Courtyard

- **Wednesday Social**: 5:30 p.m.
  - Courtyard

- **Wednesday Banquet**: 6:30 p.m.
  - Dakota Ballroom

- **Thursday Lunch**: 12:00 noon
  - Courtyard

#### Golf Tournament
- **Tuesday**: 1:00 p.m.
  - Prairie West Golf Club
  - 2709 Longspur Trail
  - Mandan, ND

#### Field Trips
- **Tuesday**: 2:00 p.m.
  - Bismarck/ Mandan Municipal Facilities

- **Thursday**: 2:00 p.m.
  - Bismarck/Mandan Municipal Facilities

#### YP Poster Competition
- **Wednesday**: 8:30 a.m. - 10:30 a.m.
  - Entrance Dakota Ballroom

#### Tabletop Display Program
- **Dakota Ballroom**
- **Tuesday**: 8:00 a.m. - 5:00 p.m.
  - Check in at the Registration Desk

- **Tuesday**: 7:00 p.m. - 9:00 p.m.
  - Setup Time

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

- **Wednesday**: 7:30 a.m. to 11:30 a.m.
  - Display Hours

- **Wednesday**: 1:30 p.m. to 3:30 p.m.
  - Takedown Time

#### Student and Young Professionals Reception
- **Tuesday**: 7:00 p.m. - 9:00 p.m.
  - TBD

#### Local Arrangements Committee
- **Keith Demke**, **Mike Berg**
- **Bill Gefroh**, **Steve Himmelspach**
- **Sarah Volk**, **Jeron Fueller**
- **Mel Bullinger**, **Alison Nybo**
- **Jeff Heintz**, **Darin Schaeffer**
President’s Letter
by Dan Jonasson, President - North Dakota Water and Pollution Control Conference

Dear Conference Members and Friends:

Please make sure to mark your calendar and plan to attend the 87th annual convention of the North Dakota Water and Pollution Control Conference, North Dakota Chapter of the American Public Works Association, the North Dakota Water Environment Association, the North Dakota Section of the American Water Works Association and the North Dakota Chapter of the North American Stormwater and Erosion Control Association on October 6, 7 and 8, 2015 in Bismarck, ND. The conference is a great opportunity to converse with friends and colleges and share thoughts on the daunting tasks of maintaining old as well as ever expanding new infrastructure throughout the state. It is also a chance to recognize our peers for their outstanding service and dedication to the industry. This year’s conference once again promises to provide many interesting and informative presentations on various types of infrastructure we are tasked with maintaining throughout the state.

In addition, I hope you will sign up for the tours the Bismarck staff has arranged and take time to enjoy the many social activities throughout the conference.

See you in Bismarck!!

Sincerely,
Dan Jonasson, President
North Dakota Water and Pollution Control Conference.
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56TH ANNUAL CONFERENCE

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3RD ANNUAL CONFERENCE

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OFFICIAL BULLETIN, July-September 2015
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It’s been busy at the city of Mandan recently, both with ongoing improvement projects, and also planning for projects to come in the future. Improvements have been needed to address some aging components, to prepare for capacity increases with population growth, and to be proactive in addressing possible issues that may come down the road.

Water Treatment Facility Optimization Project

The city recently completed a Water Treatment Facility Optimization project that called for improvements to components that needed updating in various locations throughout the facility. The plant #1 recarbonation basin was patched and relined to shore up some leaks that had been observed. Media filter improvements were necessary such as the replacement of drain, rewash, and isolation valves along with the coating of those valves and the steel center platform. Miscellaneous areas of structural improvements were conducted including storage rooms and safety upgrades to the lime silo. The most extensive work was done within the pretreatment basin. The existing equipment had been in service for about 30 years in a relatively stressful environment. The improvements to the 66’ wide basin included a new scraper bearing and rake replacement, coating throughout the basin, settling tube replacement, and structural improvements to the catwalk. The construction cost of this project was about $1.1M. The project team consisted of AE2S for design and construction engineering services as well as PKG Contracting, Inc. and Edling Electric, Inc. for the general and the electrical contract respectively. The NDDH is also a partner as a DWSRF loan was obtained as a source of funding for this project.

Wastewater Treatment Facility Optimization Project

The city is also currently about half way into construction of a Wastewater Treatment Facility Optimization project. As was the case for the Water Treatment Facility, this project was initiated to address areas throughout the facility in need of improvements. The most extensive improvement made as part of this project includes an overhaul of the pretreatment building and all of the components within. The pretreatment building will be gutted, get all new coatings, and then receive new mechanical and electrical systems as well as processing equipment. North of the pretreatment building is where new odor control elements are currently being installed. This includes an all new scrubber and media filter system working in series to reduce odors emitting from the facility. New UV disinfection equipment was installed to take advantage in the latest UV technology. The city advertised for bids to supply the equipment and went with Trojan Technologies (Trojan 3000 Plus) system after evaluating a 20 year lifespan of the equipment compared to another. That equipment has been in place since March and is working well. Other notable items of this project include new blowers in the blower building for the aeration pond, yard piping for better control of the wastewater movement once it enters the site, and mixers for the sludge ponds to more efficiently handle the sludge. The mixers have been in place since late last year and have produced encouraging early results. The total construction amount is under contract for about $3.5M. The project team consists of AE2S for design and construction engineering services as well as Swanberg Construction, Inc., Central Mechanical, and Edling Electric, Inc. for the general, mechanical, and electrical contracts respectively. The city partnered with the NDDH for CWSRF funding on this project as well. (Refer to pic #1)
Raw Water Intake

A significant project that the city is actively planning for is to relocate our Water Treatment Facility’s raw water intake. Because of the Missouri River’s channel migration away from our current intake, the city has had to occasionally dredge out the accumulating silt in order to open the intake up to efficiently draw the water in for processing. This problem had been slowly but steadily growing for about fifteen years, then the flood of 2011 came which temporarily assisted the facility as it cleaned out some of this silt-in problem with the force of the flood waters. It is, however, again a growing concern. With the assistance of AE2S the city has identified a long term solution to alleviate this problem, and that is to move the raw water intake about 3,000’ to the south where the channel narrows and stabilizes giving the city some assurance of a dependable long-term source. The preliminary estimate for this project is about $15M. (Refer to pic #2)
The Revised Total Coliform Rule (RTCR) requires all seasonal non-community public water systems to complete a start-up procedure prior to serving water to the public, starting April 1, 2016. The following start-up certification must be completed prior to serving water to the public. No later than 14 days after opening to the public for the season, send this form along with bacteriological sample result (if available) to the address below. Use the comments for further explanation, if needed.

<table>
<thead>
<tr>
<th>Public Water System (PWS) Name:</th>
<th>PWS Number: (ex: ND1234567)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Name:</td>
<td>Date Water System Opens to the Public:</td>
</tr>
</tbody>
</table>

Indicate if item was completed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Did the system conduct a full system inspection? Date?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conduct an integrity check? (pressurize the system and look for leaks and pressure drops) Date?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Did the system flush the distribution system? Date?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Did the system follow the department start-up checklist? The system should use the department checklist unless a written system specific checklist has been developed. N/A:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Have all operators been trained in the proper operation and maintenance of the water system?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Was the system disinfected prior to serving water to customers? Date?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Did the system correct all problems found during the system inspection and integrity check? If not, explain in the comments section below. N/A:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Did the system collect a bacteriological sample from the distribution system prior to serving water to the public? Date?</td>
<td>N/A:</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Comments:

No later than 14 days after opening for the public for the season, send this form along with sample results (if available) to:

Division of Municipal Facilities
918 E. Divide Ave., 3rd Floor
Bismarck, ND 58501-1947
Telephone Number 701.328.5211
Fax Number 701.328.5200
www.ndhealth.gov
Call to Order by President Lance Meyer at 12:10.
Members present: Lance Meyer, Jeff Heintz, Chuck Abel, Erik Gilbertson, and Barry Johnson.

Minutes read by Abel. Motion to approve by Johnson and second by Heintz. Motion approved.

Treasurer’s Report by Abel. Motion to approve by Heintz and second by Gilbertson. Motion approved.

Delegate Report by Meyer. Meyer attended Kansas City Delegate Meeting and Leadership Training. Council of Chapters now have subcommittees. Meyer on Leadership Subcommittee to develop app to be user friendly for members.

Regional Director, Chuck Williams, will attend Fall Conference. Meyer to invite APWA President, Larry Stevens, to attend our Conference. Stevens to present 10 to 15 minutes talk at the Conference Banquet.

Meyer to attend APWA Conference in Phoenix, AZ in August/September and also the Delegate Meeting.

There were no Committee Reports.

Old Business:
NDWPC Conference Sessions suggestions were provided by Meyer and Heintz. Send any further suggestions to Meyer. Arrange for presenters for the sessions and provide to Meyer.

Drinking Water Week May 3-9, 2015 was held.

New Business:
Project of the Year Awards: None yet received. Abel to provide Meyer with solicitation and list of engineering firms doing business in ND. Meyer to solicit engineering firms and communities for Large and Small Project of the Year already completed projects. Meyer to contact the Executive Committee to vote on selection of award recipients. Plaques to be presented at Conference Banquet by Meyer.

Nomination of 2016 Executive Committee by 2015 President before Conference so nominations are in meeting agenda.

Meyer to send APWA by-law amendments to Executive Committee members to review. Meyer to schedule a conference call meeting of EC members to vote on amendments.

Motion by Abel to grant NDLTAP’s request for gift of $2000 in 2015 to support the initiative/outreach to help train and develop small community’s leaders in North Dakota. Second by Johnson. Motion approved.

Meeting adjourned by Meyer

Respectfully Submitted,
Chuck Abel
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Warner Palermo is the President of Integrated Global Solutions in Puerto Rico, a company that serves the environmental industry in the Caribbean and South America. At IGS, Warner oversees the company business development and operational strategy. He began his career joining the US Navy as an avionics specialist. As part of a USN program, he attended Texas A&M, College Station for his BSIE.

His first experience in the industry was working at a refinery in Venezuela under a contract with BP Petroleum. It was at this first post that he learned the details of the water and wastewater world, and where he found his real passion. He then had the opportunity to move back to Puerto Rico as an Operations Supervisor for Crowley Marine Services. At this post, he was in charge of several important oil spills within the Caribbean and the US including a brief assignment in the port of Valdez, Alaska for the Exxon Valdez Oil Spill, at the moment the largest spill in the US.

Warner joined AWWA in 2000 and is extremely involved in the Puerto Rico Water & Environment Association. He has served at the Board level for the past 9 years, 3 of them as Treasurer and 1 as Section Chair. He currently serves as the Section Director for AWWA. He is also the WFP PR President and has actively assisted several small communities in the island and the Caribbean. He is a licensed water and wastewater operator in PR. Warner is an active member of the CWWA, IWA, AMTA and WEF. Warner currently serves on AWWA’s Special Presidential Panel and as the liaison with the National YP Committee.

Michael lives in Dorado, Puerto Rico with his lifelong wife Vickie and his son, Jean Michael.
Eileen O’Neill is the Executive Director of the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va. Dr. O’Neill was appointed WEF’s Executive Director in January 2014. She had previously worked with the Federation for more than 20 years in a variety of positions, including with responsibility for oversight of WEF’s technical, international, and communications programs, and served as the organization’s chief technical officer before becoming deputy executive director in late 2011.

Before joining WEF she worked as an academic and in environmental consulting in the U.S. and in Europe. She has a BS in Soil Science from the University of Newcastle-upon-Tyne (U.K.) and a Ph.D. in Soil Science from the University of Aberdeen (U.K.) and undertook a postdoctoral traineeship in Environmental Toxicology at the University of Wisconsin at Madison.
Most wastewater operators are probably familiar with the idea of a spring and fall discharge window. In northern climates it is assumed that there are two transitional and optimal periods for discharging wastewater lagoons (spring and fall). Figure 1 and 2 illustrate this concept. (BOD5) and the algae cross at exactly the same place in the spring and fall with the spring and fall discharge windows as the preferred time to discharge wastewater.

Both figures show that during the spring the BOD5 is falling and the algae is increasing. This suggests that operators would ideally discharge during this window before the algae or Total Suspended Solids (TSS) increases to the point where it becomes a problem (TSS values exceed the permit levels). In the fall the BOD5 levels rise while the TSS decreases. Is this correct? Does North Dakota, a northern climate, have two discharge windows?

Over the last 20 years the Water Quality Division of the North Dakota Health Department has been entering sample wastewater results in their database (currently called the North Dakota Pollution Discharge Elimination System or NDPDES). The system has over 20,000 total sample records dating back to 1975.

Table 1

<table>
<thead>
<tr>
<th></th>
<th>BOD5</th>
<th>Adj BOD5</th>
<th>TSS</th>
<th>pH</th>
<th>NH3 Total</th>
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<td>22.1</td>
<td>14.7</td>
<td>8.0</td>
<td>18.4</td>
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<tr>
<td>Feb</td>
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<td>32.1</td>
<td>22.6</td>
<td>8.1</td>
<td>34.9</td>
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<td>8.2</td>
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<td>14.8</td>
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<td>10.1</td>
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<td>19.5</td>
<td>8.6</td>
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Table 1 and figure 3 show the average monthly value for each of the parameters. The sample results were obtained from Publicly Owned Treatment Works (POTW) over the last two decades. The average was obtained by using a pivot table after placing the records in a spreadsheet.
Figure 3 shows that there is a brief window in March where the TSS values are relatively low. This indicates that the algae in the pond are not yet active. Experienced operators are aware of this phenomenon. Over the years this author has been told by a number of operators that they like to sample and discharge their ponds as soon as the ice is off. They know from experience that the algae will grow rapidly in April and May. The algae in some cases will grow to the point that the TSS samples results will exceed the permit limit of 30 mg/L.

The data also shows that the BOD5 values are, on average, below the permit limit of 25 mg/L, Note 3. Wastewater systems that are lightly to moderately loaded should have few issues discharging in the spring. Systems that have high organic loading may be better off discharging in the summer or fall. TSS values during this time are moderate and BOD5 values are at the lowest point.

Overall the chart illustrates that the period from mid-June to the end of October can be a good time to discharge. BOD5 and ammonia (NH3) levels are at their lowest. Values for pH, on the other hand, are relatively constant during the entire year with slightly lower results obtained in March and April.

Operators are best advised to get to know their system to determine the best times to discharge. Systems that discharge once a year may want to try discharging in the fall instead of the spring if BOD5 sample results are high. The Wisconsin Department of Natural Resources has also reported that the fall may be the best time to discharge. “As algae concentrations significantly decrease in the fall with the onset of colder weather, operators again discharge while effluent BOD5 are low. In fact, October-November discharges often can be of the best quality of the year having received a high level of treatment during the summer.”; Note 4.

To help wastewater operators determine the best time to discharge, the department has a report available that lists all of the historical discharge results. The report can be provided as a document or as a spreadsheet. Please see the list of contacts located in the Official Bulletin; Inspectors in Municipal Facilities and staff in the Water Quality Division both have access to the report.

Special thanks to Marty Haroldson for reviewing the article and to Curt Steier for providing the data used in this article.

References and notes


Note 2: Stabilization Pond Operation and Maintenance Manual, Willard N. Sexauer and Roger V. Karn, Minnesota Pollution Control Agency, Published by National Environmental Training Association, 1982, page 71

Note 3: About 80% of the BOD5 values in the database with a value of a 6 are actually less than 6 mg/L. Laboratories will sometimes limit the testing to cover a certain range based on expected results. For example, the North Dakota State laboratory will run three dilutions for the BOD5 test looking for values from 6 to 210 mg/L. If the result is less than 6 mg/L the analyst reports less than 6 mg/L. The analyst does not run the test again to determine the exact value since the result is well below the typical permitted limit of 25 mg/L. In order to estimate how this impacts the graph, all values that were exactly equal to 6 were replaced with a value of 3.57. The new value was obtained by averaging all known values below 6.0. The actual BOD5 values for each month are likely to fall between the raw value and the adjusted value.

Revised Total Coliform Rule (RTCR) Implementation Update
by Josh Seerup, North Dakota Department of Health

On April 1, 2016, the Safe Drinking Water Act’s Revised Total Coliform Rule (RTCR) will take effect. The RTCR will use a ‘find-and-fix’ approach to reduce the entry of fecal contaminants into public water systems (PWSs).

The North Dakota Department of Health has applied for primary enforcement responsibility (i.e. primacy) from the Environmental Protection Agency (EPA) to enforce the rule at the state level. The Department, along with partners, has been conducting training to help PWSs prepare for the changes that will come with RTCR. Internally the Department has been developing assessment and compliance-tracking protocols.

Sampling Site Plans

The RTCR requires that each PWS develop a written sampling site plan that identifies the system’s sample collection schedule and all sampling sites. Mailings were sent out with instructions for how to complete these plans and many PWSs have already sent their plans to the Department. Staff at the Department are reviewing plans to ensure that sites are in areas representative of the water throughout a PWS’s distribution system. The Department has been working with systems to make sure their plans are compliant. Approval letters for plans already submitted should be going out soon. All PWSs should have their plans to the Department by December 1, 2015.

Assessments

Level 1 assessments will be conducted by the PWS to find sanitary defects or existing failures of protective barriers that could allow the entry of microbial contaminants into the system (i.e. find out why there were positive samples). Unlike with TCR, PWSs will stay on their normal sampling schedules the month following a level 1 assessment.

If a PWS triggers two level 1 assessments within a rolling 12-month period then a level 2 assessment will be required in place of the second level 1 assessment. E. coli MCL violations will also trigger level 2 assessments. As with the current TCR, E. coli MCL violations will still require public notice and a boil water advisory. Level 2 assessments will be conducted by the Department, or a party authorized by the Department, in conjunction with the PWS. These assessments will be more in depth than level 1 assessments.

Failure to conduct any required assessment or to correct defects found will result in the issuance of a treatment technique violation and the requirement to perform public notice.

Sample Schedules

Another change with the RTCR is that all PWSs, even those who currently test quarterly, will have to sample monthly.

Under RTCR, PWSs with 1000 or fewer users, and groundwater systems serving 4,900 or fewer people, may collect all their samples on a single day. Other systems must collect their samples at regular intervals throughout the month.

Seasonal Start-Up Procedures

Seasonal PWSs will have to begin conducting state-approved start-procedures under the RTCR. These procedures can include disinfection, flushing, etc. Seasonal systems will need to send the Department a form attesting that start-up procedures were completed; failure to do so will result in the issuance of a treatment technique violation and the requirement to perform public notice.

Documentation

The Department has created forms for start-up procedures
and assessments. These forms will be used by start-up PWS operators or by assessors when doing assessments. An example of the start-up procedure form is included in this issue on page 10.

If you have any questions about the RTCR please contact Jeni Walsh at jwalsh@nd.gov or 701.328-5231 or Josh Seerup at jseerup@nd.gov or 701.328-5257.

RTCR Major Changes:

1) Update sampling site plans.
2) Level 1 and 2 assessments as necessary.
3) Monthly sampling for all.
4) Startup procedures for seasonal systems.
## REGISTRATION FORM

**Joint Meeting of the**
- North Dakota Water & Pollution Control Conference
- North Dakota Chapter of the American Public Works Association
- North Dakota Water Environment Association
- North Dakota Section of the American Water Works Association
- North Dakota Chapter of the North American Stormwater and Erosion Control Association

**October 6, 7, and 8, 2015, Ramkota Hotel, Bismarck, North Dakota (701) 258-7700**

### A. REGISTRANT INFORMATION
(Use only one name per registration) (Please Print or Type)

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*Packages include reg. fee, banquet, buffet, and luncheons  **Late Package Registration Deadline September 25, 2015

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(Enter appropriate payment below)

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| Please bill us        | _______
| Pay by credit card    | _______
| Our check is enclosed | _______

MAKE CHECKS PAYABLE TO: **ND Water & Pollution Control Conference or NDWPCC**

### F. CHECK ALL THAT APPLY

- [ ] Do you qualify as a water treatment or water distribution operator for a system serving 3,300 or less? This will determine eligibility for reimbursement.
- [ ] Do you plan to participate in the golf tournament? If so, indicate your average score or handicap. _____
  The golf course will be charging a green and cart fee.
- [ ] Are you a young professional 35 or younger?
- [ ] Do you plan to attend the student/YP reception?
- [ ] Do you plan to attend the pH certification?

### G. WORKSHOP – Small System Operator Training
(Please indicate attendance)

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**Monday**

- [ ] 8:00 a.m. – 5:00 p.m.
| H. | Bismarck/Mandan Public Facilities Tours  
(Please indicate attendance) | I. FOR CONFERENCE USE ONLY |
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**Tuesday**  
2:00–4:00 p.m.  
- Bismarck Biomass Boiler, Household Hazardous Waste and Water Treatment Facilities  
- Mandan Water and Wastewater Facilities

**Thursday**  
2:00 – 4:00 p.m.  
- Bismarck Biomass Boiler, Household Hazardous Waste and Water Treatment Facilities  
- Mandan Water and Wastewater Facilities

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SC350
P300
P550
VMAX® W3000™

PROPEX
LANDLOK® 450
LANDLOK® 300
PYRAMAT®
ARMORMAX®
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- Water source, treatment, and distribution design
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- Regulatory compliance—strategies and planning
- GIS, GPS, and specialized system modeling
- Permitting, land rights, and easement management
2015 MEETING SCHEDULE

Monday
7:30 p.m.  
**Preconference Meeting**  
North Dakota Section of the American Water Works Association (NDAWWA)  
Governor’s Room

Tuesday
7:30 a.m. - 11:30 a.m.  
**Water and Wastewater Operator Certification Examinations**  
North Dakota Department of Health  
Heart Room
7:30 a.m.  
**Officers Meeting**  
NDAWWA  
Governor’s Room
8:00 a.m.  
**Officers Meeting**  
North Dakota Chapter of the American Public Works Association (NDCAPWA)  
Room 2160
8:00 a.m.  
**Officers Meeting**  
North Dakota Water Environment Association (NDWEA)  
Room 3130
8:00 a.m.  
**Officers Meeting**  
North Dakota Chapter of the North American Stormwater and Erosion Control Association (NASECA-ND)  
Room 3160
9:30 a.m.  
**Officers Meeting**  
Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC), NDCAPWA, NDWEA, NDAWWA, and NASECA-ND  
Governor’s Room
10:30 a.m.  
**AWWA Committee Meetings**  
NDAWWA  
Governor’s Room
11:30 a.m.  
**Business Meeting**  
NDCAPWA  
Courtyard
1:30 p.m. - 4:30 p.m.  
**Concurrent Sessions**  
Missouri Room

Wednesday
9:00 a.m.  
**North Dakota Operator Certification Advisory Committee Meeting**  
Room 2160

(Over)
12:00 noon  **Business Meeting**  
NDWEA and NASECA-ND  
Courtyard

1:30 p.m. - 4:30 p.m.  **Concurrent Sessions**  
Missouri Room

**Thursday**

7:30 a.m.  **Annual Public Works Directors and City Engineers Meeting**  
Room 2160

8:00 a.m. - 11:30 a.m.  **Concurrent Sessions**  
Dakota Ballroom

12:00 noon  **Business Meetings**  
NDAWWA and NDWPCC  
Courtyard

**FUTURE CONFERENCES**

2016 - Minot, October 11, 12, and 13, Holiday Inn Riverside

2017 - Fargo, October 17, 18, and 19, Holiday Inn

2018 - Grand Forks, October 16, 17, and 18, Alerus Center
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St. Helens, Oregon

LAKES AND RAW WATER
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Pagosa Springs, Colorado
## Conference History

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Free Emergency Response Seminar and NDWARN Tabletop Exercise

Thursday, September 24, 2015

North Dakota Department of Health Environmental Training Center
2639 East Main Avenue · Bismarck, North Dakota 58501
Phone: 701-328-5224

The North Dakota Water/Wastewater Agency Response Network (NDWARN) is a network of “utilities helping utilities.” This network helps water and wastewater utilities locate emergency assistance in the form of personnel, equipment, materials and other services. NDWARN is proudly hosting a free event that includes an emergency response seminar and a tabletop exercise (TTX).

Emergency Response Seminar and TTX Description: The event will consist of a seminar with presentations and a TTX. The seminar presentations will cover topics related to NDWARN, as well as water and wastewater preparedness and response. The TTX will be based on a hypothetical incident designed to bring together water, wastewater, county and state agencies, and public safety to discuss roles and responsibilities. This seminar and TTX are open to member utilities and non-member utilities, as well as response partners that are interested in learning more about NDWARN.

Continuing Education Units (CEUs): North Dakota water and wastewater operators will earn 3 CEUs toward their license renewal requirements for their participation in the entire event.

Event Timeline: Thursday, September 24, 2015

- Check-in: 8:30 a.m. – 9:00 a.m.
- Presentations: 9:00 a.m. – 11:30 a.m.
- Lunch: 11:30 a.m. – 12:30 p.m.
- Tabletop Exercise: 12:30 p.m. – 4:00 p.m.


All attendees must register for this free event so we can obtain an accurate headcount. Seating is limited to 65 people.

For more information and if you are interested in attending the event via a webinar, please contact Will Keefer of the Horsley Witten Group (EPA’s contractor) at wkeef@horsleywitten.com or 508-833-6600.
I am writing this having just returned from an excellent Annual Conference and Exposition (ACE) where I officially became your Section Director. A big Thank You needs to go to our departing Director, Larry Thelen. Larry has been a faithful volunteer to both the Section and the Association for many years. I hope he will still help out the Section from time-to-time. Experience like that is tough to replace.

I am happy to tell you that your Association is very strong, with over 50,000 dedicated members. ACE was held in Anaheim, California and saw nearly 12,000 attendees. An appropriate place to have ACE, considering the current drought in California. During ACE, the gavel was passed from outgoing President John Donahue (Illinois Section) to Gene Koontz (Pennsylvania Section). Many of you may remember both John and Gene, who visited our Section in 2010 and 2012, respectively. The new President-Elect is Jeanne Bennett-Baily (Virginia Section) who was previously the Chair of the Public Affairs Committee. ACE also saw the Association saying farewell to Deputy CEO Tom Curtis, who is retiring. Tom, and his staff, oversees all Washington D.C. activities of AWWA and provides leadership on regulations and works on behalf of the water community. He will be missed greatly.

I am also happy to report that the North Dakota Section was recognized by the Association for meeting the goals set forth in the recent Section Membership Challenge. Goals were set for both membership retention and total membership. North Dakota was one of only 18 Sections that achieved their goals. Thanks to Membership Chair, Dean Sletten, for playing a big part in this achievement.

This is an exciting time for AWWA. Several initiatives are ongoing as part of the Association’s Strategic Plan. Two of those initiatives are as follows:

- The first is the opening of AWWA India on July 1st. This is the first AWWA office outside of North America and is part of the Association’s Global Outreach Campaign. For, those of you wondering ‘Why India?’, CEO David LaFrance wrote a great article on that subject in the May 2015 issue of the Journal that can provide some background. AWWA India currently has around 100 members and is expected to reach 250 members by the end of the year.

- The second initiative is The Water Equation Campaign, formerly known as the Association’s philanthropic activities. This campaign is a concentrated effort to educate water professionals, share knowledge, advocate for safe and sustainable water, and create volunteer opportunities. This will be achieved through water workforce advancement, community water outreach and education, and global water outreach. Funding for the campaign is entirely through donations: Individual Giving, Corporate Sharing, and Foundation Support. I invite you to learn more about The Water Equation Campaign (Knowledge + Sharing = Transformation) on the Association’s website (www.awwa.org) and see how we all can ‘Help build a better world through better water’.

As I embark on my term as Director, I am a bit overwhelmed by all the moving parts of the Association, but I look forward to the challenge. I view my role as your Director to assist in setting the policies and direction of the Association, represent the interests of the North Dakota Section of AWWA, and advocate for the vision, mission, and goals of the Association. I look forward to talking to each and every one of our Section’s members. I would also encourage all of you to get involved in the Section and the Association. There is something for everyone. I guarantee you that the experiences had and relationships made will have a lasting effect and continually reaffirm why we work in this noble profession.

I’ll leave you with this. The keynote speaker at the opening general session of ACE was Dr. Wallace J. Nichols, who wrote a book titled ‘Blue Mind’. It talks about the relationship we all have with water and how being near, in, on, or under water can make you happier, healthier, more connected, and better at what you do. It’s an interesting premise. As water professionals, we are surrounded by water every day. So, as each of you goes about with the task of providing safe and reliable water, keep in mind, what Dr. Nichols said, ‘You need water. And water needs you now. I wish you water.’

Timothy J. Paustian, PE
Director – North Dakota Section of AWWA
You need a specialized water solution. We have very specialized water engineers.

When you need a water engineering solution, you need Ackerman-Estvold. Our engineers are experts in their specialty, giving your project the very best thinking. That expertise allows us to design the right solution for water distribution, water & waste water treatment, sanitary sewer, and storm sewer systems. We’re setting the standard for engineering in North Dakota.

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.
11:30 a.m.
Luncheon and Business Meeting, NDCA\(P\)WA
Courtyard
President Lance Meyer, Presiding
Guest Speaker:

TUESDAY, OCTOBER 6, 2015
AFTERNOON CONCURRENT SESSIONS
Welcome: Bismarck Mayor Mike Seminary and
NDWPCC President Dan Jonasson

**Session A**
Heart Room of the Missouri Room
Moderator: Wei Lin, Director, NDWPCC
1:30 p.m. Title: "SWPP Supplemental Raw Water Intake"
Speaker: Jim Lennington, Sr, Project Manager, Bartlett & West

1:30 p.m. Title: "Asset Management - An Operator's Perspective"
Speaker: Chris Sheridan, Operations and Maintenance Program Advisor, HDR

2:00 p.m. Title: "Solutions for Ammonia Removal in Smaller Systems"
Speaker: DelRon Peters, Senior Wastewater Project Manager, HDR

2:30 p.m. Title: "Revised Total Coliform Rule"
Speaker: Jeni Walsh, Environmental Scientist, ND Department of Health

2:30 p.m. Title: "FOG Removal Methods"
Speaker: John Kouba, Senior Engineer, Wenck Associates

3:00 p.m. Break, Courtyard

3:30 p.m. Title: "RTCR Sample Site Plans "
Speaker: Josh Seerup, Environmental Scientist, ND Department of Health

3:30 p.m. Title: "NDPDES and Biosolids Permits"
Speakers: Sarah Waldron, Environmental Scientist, ND Department of Health
Patrick Schuett, Environmental Scientist, ND Department of Health

4:00 p.m. Title: "RTCR Level I and Level II Assessments"
Speaker: Josh Seerup, Environmental Scientist, ND Department of Health

4:00 p.m. Title: "Nutrient Recovery for Irrigation"
Speaker: NDSU WEFTEC Design Team, AWWA/WEF, Student Chapter

4:30 p.m. Adjourn

5:00 - 7:00 p.m. Buffet Dinner, Courtyard
7:00 - 9:00 p.m. Student and Young Professionals
7:30 - 11:30 a.m. Tabletop Display Program, Dakota Ballroom
8:00 a.m. - 10:00 a.m. Free Breakfast Buffet, Dakota Ballroom

WEDNESDAY, OCTOBER 7, 2015
AFTERNOON CONCURRENT SESSIONS

**NDAWWA Session**
Heart Room of the Missouri Room
Moderator: Mike Berg, Trustee, NDAWWA

1:30 p.m. Title: “Trihalomethane Reduction in Water Storage Tanks”
Speaker: Doug Whitney, Senior Engineer, KLJ

2:00 p.m. Title: “Gimmicks and Gadgets: Water Treatment Operation and Maintenance Solutions”
Speakers: Rob Dickson, City of Lincoln
Jim Kershaw, City of Bismarck
Bill Pifer, City of Bismarck
Mark Paddock, City of Minot

3:00 p.m. Break, Courtyard

3:30 p.m. Title: “Traditional Low Density and High Density Lime System Slaking Comparison”
Speaker: Ron Plank, Material Handling Specialist, Merrick/ConSeCo

**NDWEA Session**
Sheyenne Room of the Missouri Room
Moderator: Gary Zuroff, President Elect, NDWEA

1:30 p.m. Title: “Wastewater Treatment Disposal in Western ND”
Speaker: Sarah Waldron, Environmental Scientist, ND Department of Health

2:00 p.m. Title: “Wastewater Treatment and Collection Panel”
Speakers: Karla Olson, Apex Engineering Group
Don Tucker, City of Fargo
Don Wald, City of Wahpeton
Gary Zuroff, City of Dickinson

3:00 p.m. Break, Courtyard

3:30 p.m. Title: “Don’t Flush Trouble”
Speaker: Bill Gefroh, Lab and Pretreatment Manager, City of Bismarck

**NDCAPWA Session**
Cannonball Room of the Missouri Room
Moderator: Lance Meyer, President, NDCAPWA

1:30 p.m. Title: “Situation Awareness Improvements Using GIS”
Speakers: Darrel Nucech, GIS Coordinator, City of Bismarck
Gary Stockert, Emergency Manager, City of Bismarck

2:00 p.m. Title: “LED Street Light Change Outs and New Installations”
Speakers: Linda Oster, Bismarck, Engineering Department
Paul Lies, Traffic Signal/White Way Lights Supervisor, City of Bismarck

3:00 p.m. Break, Courtyard

3:30 p.m. Title: “Minot 55th Street Overpass”
Speaker: Steven Eberle, Vice President/COO, Ackerman-Estvold

4:00 p.m. Title: “Fargo Broadway Forcemain Project”
Speaker: Ryan Ackerman, President/CEO, Ackerman-Estvold

**Miscellaneous**

3:30 p.m. Adjourn

5:30 p.m. Social Hour, Courtyard

6:30 p.m. Banquet: Dakota Ballroom
Invocation: Kevin Nelson
Master of Ceremonies: Scott Wild
Entertainment: Strolling Strings
<table>
<thead>
<tr>
<th>Session A</th>
<th>Session B</th>
<th>NASECA-ND Session</th>
</tr>
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<tbody>
<tr>
<td>Grand Pacific Room of the Dakota Ballroom</td>
<td>Patterson Room of the Dakota Ballroom</td>
<td>Lamborn Room of the Dakota Ballroom</td>
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<td>Moderator: Sarah Volk, Director, NDWPCC</td>
<td>Moderator: Karla Olson, WEF Delegate, NDWEA</td>
<td>Moderator: Seth Lynne, President-Elect NDWPCC</td>
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**THURSDAY, OCTOBER 8, 2015**
**MORNING CONCURRENT SESSIONS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session A Title</th>
<th>Speaker(s)</th>
<th>Time</th>
<th>Session B Title</th>
<th>Speaker(s)</th>
<th>Time</th>
<th>NASECA-ND Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>8:00 a.m.</td>
<td>“2015 Bridger Poplar Pipeline Release, Yellowstone River, Dawson County, MT”</td>
<td>Eugene (Gino) Pizzini, Drinking Water Section Supervisor, Montana Department of Environmental Quality</td>
<td>8:00 a.m.</td>
<td>“Capital Planning, The Easy Way”</td>
<td>Michael Lorenzo, Senior Project Manager, Bartlett &amp; West, Darin Schaeffer, Project Manager, Bartlett &amp; West</td>
<td>8:00 a.m.</td>
<td>“Reissued Construction General Permits”</td>
<td>Dallas Grossman, Environmental Engineer, ND Department of Health</td>
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<td>9:00 a.m.</td>
<td>“Alternatives to Design-Bid-Build: Views from an Owner, Engineer, Contractor, and ND Department of Health”</td>
<td>Mark Peterson, City of Fargo</td>
<td>8:30 a.m.</td>
<td>“Dickinson Wastewater Infrastructure Expansion”</td>
<td>Gary Zuroff, Public Works Director, City of Dickinson</td>
<td>8:30 a.m.</td>
<td>“ND Construction Permit Roundtable”</td>
<td>Dallas Grossman, NDDH, Jeff Brummer, Anderson Western, Inc., Brad Krogsland, KJL, Matt Sperry, NDDOT, Jeannie Schultz, AE2S</td>
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<tr>
<td>9:00 a.m.</td>
<td>“Nutrient Roadmap”</td>
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<td>9:00 a.m.</td>
<td>“Edgewood Sanitary and Stormwater Design”</td>
<td>Wei Lin, Civil Engineering, NDSU</td>
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<td>10:00 a.m.</td>
<td>“Water Supply, Treatment, and Distribution Challenges in West Fargo”</td>
<td>Chris Brungardt, Public Works Director, City of West Fargo</td>
<td>10:00 a.m.</td>
<td>“Regional Solution for the Ellsworth AFB; Box Elder, SD and Area Developments”</td>
<td>Tracy Ekola, Principal, SEH</td>
<td>10:00 a.m.</td>
<td>“Municipal Stormwater Roundtable”</td>
<td>Dave Tuan, City of Williston Linda Oster, City of Bismarck Lance Meyer, City of Minot Chad Zander, City of West Fargo Reed Schwartzkopf, City of Jamestown Jeff Hruby, AE2S</td>
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<tr>
<td>11:00 a.m.</td>
<td>“Bismarck Odor Control Rehab”</td>
<td>Ken Weber, AE2S</td>
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12:00 p.m. | Joint Luncheon and Business Meetings, NDAWWA and NDWPCC, Courtyard | | | | | | |

NDAWWA, Chair Dennis Larson and NDWPCC President Dan Jonasson
Guest Speaker: Warner Palermo, Vice President, AWWA, Dorado, Puerto Rico
From Concept & Construction
To Completion & Beyond

Engineering America Provides a One-Source Solution
For Your Unique Storage Tank Application.

Our bolted tank design is the preferred dependable, versatile and cost-effective choice in wastewater treatment storage. Single-use applications range from stormwater runoff storage, equalization and trickling filters to sludge storage/mixing.

We’ve been building our tanks in North Dakota since 1980.
We know the state of North Dakota and the state of North Dakota knows us.

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(2) Aquastore Glass-Fused-to-Steel
Application: Sludge Storage
Capacity: 2 Million Gallons
Size: 120 ft. Diameter x 28 ft. Height
Installed: 2014
Installed by Engineering America
### Widseth Smith Nolting

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<tr>
<th>Name</th>
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<tr>
<td>Greg Boppre</td>
<td>701-795-1975</td>
<td>2850 24th Ave S, Grand Forks, ND 58201</td>
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Widseth Smith Nolting provides engineering, architecture, land surveying, environmental services, and funding assistance to public and private clients throughout the Upper Midwest. We offer expertise in water management, environmental services, roads and trails, water and wastewater systems, and bridges and buildings, while being good stewards of the environment. Widseth Smith Nolting is committed to the notion that good roads, clean water, safe bridges, and vibrant spaces are central to our quality of life. Offices are located in Grand Forks and Minot, ND, Alexandria, Bemidji, Brainerd/Baxter, Crookston, East Grand Forks, and Rochester, MN.

### Ferguson Waterworks

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<th>Name</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Lyle Ranstrom</td>
<td>701-293-5511</td>
<td>1917 1st Ave N, Fargo, ND 58102</td>
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Ferguson Waterworks is a regional waterworks wholesaler. We provide water and sewer distribution products, irrigation systems, E-One sewer pumps, geotextiles, polyethylene pipe, fusion equipment, locators, safety equipment, water meter systems and water meter installation, and repair services. We supply products and services to the Dakotas, Minnesota, western Wisconsin, Iowa and northern Illinois with branch offices in Fargo and Bismarck, ND; Blaine and Sartell, MN; De Kalb, IL; and Madison, WI.

### Hawkins, Inc.

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<tr>
<th>Name</th>
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<tr>
<td>Kollin Syverson</td>
<td>701-462-8588</td>
<td>2576A Industrial Dr, Washburn, ND 58577</td>
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The Hawkins Water Treatment Group supplies products to customers in 18 states across much of the U.S. We utilize a route/salesperson approach in supplying products and equipment to our customers. Our driver/technician/salesperson is trained to handle on-the-spot service on the equipment we sell, as well as helping our customers find system solutions. The Hawkins Water Treatment Group supplies products and equipment to treat drinking water, municipal and industrial wastewater, industrial process water, and non-residential swimming pool water.

### Interstate Engineering, Inc.

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<tr>
<th>Name</th>
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<tr>
<td>Darrell Hournbuckle</td>
<td>701-252-0234</td>
<td>PO Box 2035, Jamestown, ND 58401</td>
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Interstate Engineering offer comprehensive civil engineering, surveying, and planning solutions across a diverse clientele. From federal to state; from local to tribal governments; from individuals to corporations, Interstate Engineering serves a variety of clients throughout the region. With ten main offices and four satellite offices throughout North Dakota, Montana, Minnesota, and South Dakota, we are available to serve our client’s needs. Our varied expertise in water resources and systems, as well as a variety of additional disciplines, enables us to approach each project with knowledge and experience. Our understanding contributes to greater problem-solving abilities and results in comprehensive, well-rounded projects for each client. We are proud to be the professionals you need and the people you trust.
Vessco, Inc.  
Brian DeWolf  
8217 Upland Cr  
952-941-2678  
Chanhassen, MN  55317  
FAX 952-941-0796  
bdewolf@vessco.com  

Vessco, Inc. is a multifaceted clean-water company offering the best equipment in today’s water and wastewater treatment market. The company views itself as a partner with its customers, employees, communities, and environment. At the core of the Vessco 360 philosophy is its commitment to ensure that it takes care of its customers in all phases of the equipment’s useful life. This is achieved through the four pillars of its business; representation, distribution, manufacturing, and service. Vessco’s family of equipment has been carefully built based on meeting high standards for product performance and value. Let Vessco provide you with Vessco 360 coverage today!

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

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

American AVK  
Kevin Paulson  
2155 Meridian Blvd  
605-336-8884  
Minden, NV  89453  
FAX 866-594-6978  
Paulson.kp@aukus.com  

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Engineering America  
Rob Gravatt  
647 Hale Ave N  
651-777-4041  
Oakdale, MN  55128  
FAX 651-777-5312  
gravatt@engamerica.com  

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Jeff Janiksela  
1434 5th Ave N  
701-235-7500  
Fargo, ND  58102  
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4165 S 30th Ave Ste 100  
701-566-5339  
Fargo, ND  58104  
FAX 701-566-5438  
barrygl@bolton-menk.com  

Bolton & Menk, Inc. is a full-service consulting engineering and surveying firm, serving the Upper Midwest since 1949. For more than six decades, we have been committed to improving quality of life through engineering excellence and client satisfaction. Today, Bolton & Menk has 365 employees throughout 14 offices in North Dakota, Minnesota, and Iowa. Providing services to more than 225 communities. Bolton & Menk services include water supply, treatment, storage and distribution; wastewater collection and treatment; airports; solid waste management; highway and street improvements; electrical, lighting and control design; and storm sewer drainage improvements.
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Ackerman-Estvold is a professional civil engineering and architectural firm headquartered in Minot, North Dakota. We serve clients in the areas of planning, design, and construction services in both the public and private sectors throughout the state of North Dakota and the region. With offices in Minot and Williston, Ackerman-Estvold provides the following services: Transportation and traffic engineering, land planning and development, municipal engineering, water resources, construction engineering, GIS, and architecture.

Since 1938, KLJ has provided multi-disciplinary engineering-based solutions for national, large-scale operations, with the local expertise to drive projects forward and deliver successful results. Headquartered in Bismarck, ND the company currently employs more than 750 professionals across six states serving a variety of markets. As an employee-owned firm with a focus on innovation and hard work, we help clients succeed by developing lasting infrastructure that responds to the social, civic, and economic needs of our communities. At KLJ we understand our success is measured by the ability to deliver consistent quality engineering services as a trusted advisor and dedicated partner. To that end, we have developed the KLJ Quality Assurance/Quality Control/ (QA/QC) program. Following rigorous standards, we use QA/QC to scope projects, assess constructability and viability, maintain continuity, conduct plan reviews, and monitor project progress.

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Treatment Resources, Inc. is a manufacturer’s representative offering water and wastewater process solutions in Minnesota, North Dakota, and South Dakota.
We believe that the way we work can add meaning and value to the world. That ideas inspire positive change. That small details yield important realizations. Above all, we believe that collaboration is the best way forward. We specialize in engineering, architecture, environmental and construction services. While we are most well-known for adding structure to communities through high performance municipal and agency-led projects, we provide much more than that. We create an unshakable foundation for progress because our multidisciplinary teams also include scientists, economists, builders, analysts, and artists. Our employees, working in 225 locations around the world, push open the doors to what’s possible each and every day.

Integrated Process Solutions (IPS), Inc. is a full-service integration and electrical construction firm with headquarters located in Fosston, Minnesota. Our team has extensive and diverse experience in the industrial and municipal water/wastewater industry, allowing us to be a valuable resource during the planning, design, procurement, and construction phases, and providing an unmatched level of customer service. IPS is dedicated to delivering high quality projects that are on time and within budget.

Established almost 35 years ago, Sanitation Products has provided municipal and industrial equipment to municipalities and contractors. These products include: Sewer Jetters, Sewer Cameras, Dump Bodies, and many other types of equipment. Sanitation Products has factory trained technicians providing on the road service, as well as, stock parts, and full service facilities in Fargo, ND and Sioux Falls, SD.

Located in Fargo, Northern Pipe supplies water and sewer PVC pipe throughout the Midwest. For over 30 years Northern Pipe Products has developed a reputation as a preferred supplier by manufacturing quality pipe and providing great service. With ten extrusion lines, Northern Pipe Products manufacturers a wide range of PVC pipe products, including:

- 4” -12” C900 and 14” - 24” C905 water distribution pipe
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- ¾ “ - 12” IPS pressure pipe
- 2” - 12” well casing

Veit provides services to general contractors, municipalities, and private industry. Veit’s specialty contracting services include earthwork, demolition, utilities, foundations, and industrial cleaning. Veit’s waste management services include roll-off containers, recycling, transfer stations, and landfills.
Since 1977, Team Laboratory Chemical Corp. has responded to the needs of operators in the wastewater industry with its Team TreatTM lineup of products. The Team TreatTM program was developed as both a problem-solving and preventative maintenance program. Team TreatTM will enable your entire wastewater system, from collection to treatment, to operate at maximum efficiency. Team Lab's product lineup consists of algae control; bio-augmentation; wastewater pond, wastewater treatment plant, grease control, and industrial formulations; collection systems; weed control; and winter products.

Brock White Company, LLC headquartered in St. Paul, MN, was incorporated in 1954 to provide specialty products to the concrete and masonry construction markets in the upper Midwest United States. These products include hand tools, specialty chemicals, waterproofing materials, caulking, insulation, highway sealants, concrete, and masonry accessories, concrete repair and restoration materials and coatings. Brock White has become a leading supplier and resource for Geosynthetics, Geotextiles, Erosion Control, Stormwater Management, and water quality products. To learn more about Brock White and the wide variety of products that it has available, call the local office or visit their website: www.brockwhite.com

We manufacture HDPE pipe for water, wastewater, storm drain, industrial, and oil and gas applications. We sell thru distributors within the North Region. We also have two Texas plants. We produce 2” to 24 “ HDPE pipe.

Industrial Coating Specialists is a custom coating company in West Fargo, ND. We provide Sandblasting, Powder Coating, and light assembly to a diverse customer base across a variety of industries and have been doing so for over 20 years. We coat parts as small as a nut, to parts as large as 30 feet. In addition, we recently added two specialty coatings (Fusion Bonded Epoxy-Scotchkote 134 and Rilsan Thermoplastic) to service the Water and Petroleum Industries. We pride ourselves on overcoming the challenges presented by difficult to coat parts and developing solutions to meet our customers’ needs and expectations.
Fischer, Harris & Associates is a manufacturers’ representative company for the Midwest region that represents companies EBAA Iron, Smith-Blair, Team Industrial Valve Insertion, Wagner Co., Vent-O-Matt, RF Valves, Adaptor Inc., and Drainage & Water Solutions (DWS).

MVTL Laboratories, Inc. is an independent testing laboratory specializing in environmental monitoring. We provide a broad range of sampling and analytical services for government agencies and private industry. Some of the services we provide include groundwater and wastewater sampling. Our laboratory has analyzed thousands of samples for metals, nutrients, VOCs and many more parameters. MVTL has been in business for over 60 years! Throughout those 60 years, we have gained a vast amount of experience. We have performed a wide variety of projects on groundwater, surface water, wastewater, and solid waste. Let us put our knowledge and experience to work for you!

Parsons Engineered Products, Inc. is a manufacturers’ rep firm serving the water and wastewater process equipment marketplace. We offer products and services for municipalities and industries alike. Specifically, we offer a wide range of products and services including pretreatment screens and compactors, grit removal and classification systems, aeration, blowers, clarification, sludge dewatering centrifuge and presses, anaerobic digester steel and fabric covers, mixers, FRP covers and domes, bolted steel tanks, plastic biological media for trickling filters and suspended growth systems for BOD and nitrification, and a wide range of odor and corrosion control scrubbers and chlorine scrubbing systems.

Tnemec’s product line provides coating protection for a number of different industries including water storage tanks, water and wastewater treatment, specialty architectural, industrial, and processing/manufacturing. In addition, Tnemec offers StrataShield floor and wall coatings as well as Chemprobe masonry coatings. Tnemec has a worldwide reputation among specifiers and contractors for consistently high quality industrial coatings that are used on everything from water tanks to large stadiums. Tnemec also features the most knowledgeable sales representatives in the coatings industry who provide support and industry expertise from start to finish.

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Ess Brothers, Inc.  
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Loretto, MN 55357  
gkilgore@essbrothers.com

Ess Brothers and Sons, Inc. continues to meet the changing demands of their customers by establishing a metal fabrication shop and metal machine shop. Ess Brothers & Sons, Inc. specializes in trenchless technology focusing on inflow and infiltration at the tip of the manhole. Their product line consists of manhole castings, catch basin castings, manhole paving adjustment rings, external and internal seals, tree grates, trench grating, overflow structures, aluminum hatches, and custom fabrication.

Quality Flow Systems, Inc.  
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kevin@QFSI.net

Quality Flow Systems, Inc. is a manufacturers’ representative for KSB, Grundfos, Yeomans, Chicago, Sewer Chuber, Morris, Siemens, QLI, Sensaphone, Crane Pumps & Systems, Goulds, American Turbine, Griswold, and GPM Pumps. We provide 24-hour service assistance and have six fully equipped service trucks operating throughout our territory of Minnesota, North Dakota, South Dakota, Iowa, and Nebraska. We also have stock pumps and parts.

Metering & Technology Solutions  
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Burnsville, MN 55337  
steven@metertechsolutions.co

Metering & Technology Solutions is the Authorized Distributer of Badger Meter in the upper Midwest. We are a distributor of meters and automated meter reading (AMR) equipment to rural water and municipal water, gas and electric utilities. We sell the full line of Itron radio read products along with Vision Metering electric meters. We do all of our own system start-up and training and have full time tech support people on staff. We focus exclusively on meters and automated meter reading systems.

Apex Engineering Group  
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tom.welle@apexenggroup.com

Apex Engineering Group was founded in 2010 by an entrepreneurial group of engineers and technicians with a long history in the engineering consulting business. The owners and employees share a common vision of what it takes to build a successful engineering firm: exceptional client service, quality work, integrity, experience, expertise, and a drive for success. Our team has extensive experience in the industry and this region. Our leaders are professionals with proven track records of producing successful projects, many long-term clients and are considered experts in their respective fields.

At Apex we have put a ban on bureaucracy. We have stripped away anything and everything that stands in the way of what matters serving our clients. Apex’s business focus is Water, Transportation, Municipal, and Electrical Engineering Services. We have offices located in Fargo, Bismarck and Dickinson, North Dakota and Detroit Lakes, Minnesota.

Tech Sales Co.  
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Tech Sales Co. is a manufacturers’ representative. We specialize in instrumentation for water/wastewater and industrial applications. Products include level, flow, sampling, analytical, gas detection, and remote monitoring.

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Bartlett & West, Inc.
Darin Schaeffer
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Bismarck, ND  58503
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Bartlett & West creates value for our clients through a portfolio of professional services, including engineering, field services, landscape architecture, and data management. We take our purpose seriously: “To lead our communities toward a better tomorrow.” As opportunities arise, we offer clients alternative, sustainable solutions to their challenges. Our people focus on understanding clients’ needs, accessibility and responsiveness, integrity, quality and proactive communication. We’ve built our business on these values and for every employee, this is service. The Bartlett & West Way.

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A meeting of the Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC); North Dakota Water Environment Association (NDWEA); North Dakota Chapter of the American Public Works Association (NDCAPWA); North Dakota Section of the American Water Works Association (NDAWWA); and the North Dakota Chapter of the North American Stormwater and Erosion Control Association (NASECA-ND) was held on May 19, 2015, in the Governor’s Room of the Ramkota Hotel, Bismarck, ND. The following board members and guests were present: Chuck Abel, Mike Berg, Mike Brisben, Dustin Dale, Bill Gefroh, John “Fred” Goetz, Dallas Grossman, Dale Heglund, Jeff Heintz, Jeff Hruby, Dan Jonasson, Jim Lennington, Wei Lin, Seth Lynne, Lance Meyer, Wayne Offerdahl, Karla Olson, Tim Paustian, Mark Peterson, Mike Quamme, Meredith Quinn, Jake Schafer, Jason Sorenson, Matt Sperry, Gregg Stewart, Larry Thelen, Sarah Volk, Don Wald, Greg Wavra, and Gary Zuroff.

The meeting was called to order at 10:36 a.m. by NDWPCC President Dan Jonasson. Copies of the meeting agenda and January 1 - April 30, 2015 financial report were provided to those in attendance.

The first order of business President Jonasson called for any discussion on the minutes from the January 21, 2015 joint board meeting. Hearing none, President Jonasson called for a motion to dispense with the reading of the minutes and approve the minutes mailed to all board members. Bill Gefroh so moved, Lance Meyer seconded, and the motion carried.

Continuing with old business, President Jonasson asked for an update on the 2019 Conference. Mr. Brisben noted that October 29-31, 2019 was tentatively reserved at the Ramkota in Bismarck and that alternative dates were available with a Monday-Wednesday and/or a Wednesday-Friday venue available. Mr. Brisben reported he had met with the Bismarck Event Center regarding 2019 dates and noted the estimated costs would be $1,100-$1,500 per day for the exhibit hall and $200 per day for breakout rooms. Mr. Brisben also noted that the group reserving the 2019 dates at Ramkota was using the event center in 2015 and may release the 2019 dates if all goes well in 2015. Dale Heglund identified the group as the North Dakota Association of Counties and felt there would be no conflict if the NDWPCC convention overlapped. Mr. Brisben noted that the city of Grand Forks and Grand Forks CVB shared the cost of the Alerus Center. Jeff Heintz asked if similar measures were being considered for Bismarck in 2019. Mr. Brisben indicated that the Bismarck-Mandan CVB can offer assistance once a final quote is received and that Keith Demke said there was currently no funding available from the city.

Next, President Jonasson asked for any discussion on future conferences. Mr. Brisben provided a list of tentative dates for 2020-2023. Lance Meyer moved that the earlier dates be reserved for each site. Jason Sorenson seconded and the motion carried.

Next, Mike Quamme updated the members regarding the NDWPCC website noting that the current conference format exceeded the abilities of the company contacted. Sarah Volk recommended using the NDAWWA website and suggested the format be updated making it more user friendly. Ms. Volk and Mr. Quamme agreed to research the project further and provide a draft form for approval. President Jonasson requested they work with Mr. Brisben and that a report be given at the fall meeting.
Next, President Jonasson asked that topic and presenter lists be provided to Mr. Brisben by June 1st. Jeff Hruby requested a one session track for NASECA-ND versus alternating between Sessions B and C. Mr. Thelen noted that NDAWWA had topics lined up for an afternoon session as well. Ms. Volk suggested a call for abstracts to help with topic selection. Mr. Brisben indicated that some presenters do provide abstracts but most presentations were determined by the biographical information provided. Seth Lynne noted that abstracts might make the number of topics exclusive rather than inclusive. President Jonasson noted he liked the variety of topics used in past conferences that were of interest to all attending. After further discussion Mr. Brisben would schedule one session for each of the joint boards and fill the remaining five sessions with other topics that were submitted. President Jonasson called for any other old business.

Hearing none, President Jonasson called for a report on local arrangements for 2015. Mr. Brisben reported that meetings were held on May 12, 2015. Mr. Brisben noted that the spouse/guest event would be dropped and that the facility tours would be on your own with contact information included in the announcement. Mr. Heintz indicated that Bismarck Public Works would prefer a block of time one day to make it easier for staffing. Mr. Brisben suggested a meeting be scheduled to discuss tour options.

Mr. Brisben also stated that a pre-conference training session for small systems sponsored by AWWA has been discussed. Greg Wavra noted that emergency management training was also being considered. Ms. Volk indicated that the deadline for the AWWA training was October 15, 2015 allowing for it to be combined with the annual conference.

Moving on, President Jonasson asked for an update on the 2015 Water and Wastewater Operator Training Program. Mr. Brisben reported that 334 operators attended with 265 exams written.

President Jonasson called for any other discussion concerning the conference. Mr. Brisben asked if there would be a student/YP reception and poster competition in 2015. Dustin Dale indicated that both were in the planning stages and that he would have the new YP committee chair contact Mr. Brisben.

Next, President Jonasson asked for an update on the Official Bulletin. Mr. Brisben introduced Jake Schafer. Mr. Schafer indicated that he was learning the Indesign software and felt that the spring addition would go out in early June. Ms. Volk offered assistance if needed.
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PROCLAMATION
PUBLIC WORKS WEEK
MAY 17-23, 2015

WHEREAS, public works infrastructure, facilities and services are of vital importance to the health, safety and well-being of the people of North Dakota; and

WHEREAS, it is important for the citizens and civic leaders of this state to gain knowledge of and to maintain a progressive interest in the public works needs and programs of their respective communities; and

WHEREAS, public works professionals, engineers and administrators are responsible for and must design, build, operate and maintain the transportation, water supply, sewage and refuse disposal systems, public buildings, and other structures and facilities essential to serving our citizens; and

WHEREAS, North Dakota's public works professionals, engineers and administrators should be recognized for their dedication and contributions to the growth, development and stability of our state.

NOW, THEREFORE, as Governor of the State of North Dakota, I do hereby proclaim May 17-23, 2015, PUBLIC WORKS WEEK in the state of North Dakota.

Jack Dalrymple
Governor

ATTEST:

Alvin A. Jaeger
Secretary of State

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Scenes from Bismarck
1) Washington Lift
2) HWC Pumps
3) HWC at Dusk
4) West-End Pump Station

Useful Links

1) Bacteriological Water Samples Video:
   https://www.ndhealth.gov/MF/videos/BacteriologicalSampleCollection.mp4

2) Chlorine Residual Samples Video:
   https://www.ndhealth.gov/MF/videos/ChlorineResidualMeasuring.mp4

3) TTHM and HAA5 Samples Video:
   https://www.ndhealth.gov/MF/videos/TTHMHAA5SampleCollection.mp4
Membership Application

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

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• State or Provincial Agencies—Number of rostered members and annual dues for the group would be determined using the “Population Served” row representing 10% of total state population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)

• County Agencies—Number of rostered members and annual dues for the group would be determined using the “Population Served” row representing 50% of total county population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)

• Special Districts—Number of rostered members and annual dues for the Group would be determined using the “Population Served” row representing 20% of total district population. (Please also mark applicable category and provide names and contact information for all those who should be included on the group roster.)

• All others—Refer to row representing total population served by the agency. (Mark the category representing total population served by the agency and provide names and contact information for all those who should be included on the group roster).

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

Corporate Membership Level | Number of Rostered Members Covered* | Annual Dues USD/ CAN
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Heritage | 2 | $440 / $491
Prestige | 10 | $1,839 / $2,054
Crown | 40 | $8,732 / $9,755

*You may designate additional members for $150 USD/ $168 CAN each.

Fee schedule effective through December 31, 2015

Step 2  Dues, Member Information, and Payment

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

APWA membership dues are not deductible as a charitable contribution but may be deductible as an ordinary business expense, subject to IRS limits. APWA does not designate the use of membership dues for lobbying or advocacy efforts, however eight percent (8%) of our total operating budget is allocated towards advocacy-related programs, including staff salaries. Please consult your tax professional with regards to eligible ordinary business expenses.

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

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

Questions? Contact a membership specialist at 800-848-APWA or memberservices@apwa.net. Or visit www.apwa.net/membership.

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

OFFICIAL BULLETIN, July-September 2015
Upcoming Conference Dates:

2016--Minot, October 11, 12, and 13
Holiday Inn

2017--Fargo October 17, 18, and 19
Holiday Inn

2018--Grand Forks October 16, 17, and 18
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## Drinking Water Program Directory

<table>
<thead>
<tr>
<th>Program Administrator</th>
<th>Greg Wavra 701-328-5257</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylamide and Epichlorohydrin Rule</td>
<td>Gary Stefanovsky 701-328-5287</td>
</tr>
<tr>
<td>Arsenic Rule</td>
<td>Amy Kinzler 701-328-5258</td>
</tr>
<tr>
<td>Consumer Confidence Reports</td>
<td>LeeAnn Tillotson 701-328-5293</td>
</tr>
<tr>
<td>Disinfectant/Disinfection Byproducts Rule (TTHM, HAA5) Stage 1 and Stage 2 Rule</td>
<td>Lydia Fewless 701-328-5221</td>
</tr>
<tr>
<td>Electronic Reporting Information System (ERIS)</td>
<td>Barrett Brown 701-328-5209</td>
</tr>
<tr>
<td>Filter and Backwash Recycle Rule</td>
<td>Gary Stefanovsky 701-328-5287</td>
</tr>
<tr>
<td>Fluoride Addition</td>
<td>Amy Kinzler 701-328-5258</td>
</tr>
<tr>
<td>Groundwater Rule</td>
<td>Gary Stefanovsky 701-328-5287</td>
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<tr>
<td>Inspections: Northeast</td>
<td>Gregg Stewart 701-328-6621</td>
</tr>
<tr>
<td>Inspections: Northwest</td>
<td>Ivana Striebel 701-328-6624</td>
</tr>
<tr>
<td>Inspections: Southeast</td>
<td>Jacob Schafer 701-328-6375</td>
</tr>
<tr>
<td>Inspections: Southwest</td>
<td>Shawn Heinle 701-328-6627</td>
</tr>
<tr>
<td>Inspections: South Central</td>
<td>Bob Markhouse 701-328-6623</td>
</tr>
<tr>
<td>Lead and Copper Rule</td>
<td>Tammy Lamphear 701-328-5295</td>
</tr>
<tr>
<td>Surface Water Treatment Rule: Interim Enhanced, Long Term 1 Enhanced, Long Term 2 Enhanced</td>
<td>Mike Trythall 701-328-5269</td>
</tr>
<tr>
<td>Microscopic Particulate Analysis (MPA)</td>
<td>Gary Stefanovsky 701-328-5287</td>
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<tr>
<td>Nitrate/Nitrite Program</td>
<td>Amy Kinzler 701-328-5258</td>
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<tr>
<td>Operator Certification</td>
<td>Craig Bartholomay 701-328-6626</td>
</tr>
<tr>
<td>Operator Expense Reimbursement/Public Notice Rule</td>
<td>LeeAnn Tillotson 701-328-5293</td>
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<tr>
<td>Operator Training</td>
<td>Mike Brisben 701-328-6622</td>
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<tr>
<td>Pesticides (SOCs)</td>
<td>Lydia Fewless 701-328-5221</td>
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<tr>
<td>Primary and Secondary Inorganics</td>
<td>Lydia Fewless 701-328-5221</td>
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<tr>
<td>Public Water System Updates (changes to source, treatment, contact, etc.)</td>
<td>Tammy Lamphear 701-328-5295</td>
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<tr>
<td>Radionuclide Rule: Gross Alpha, Total Radium, Uranium</td>
<td>Lydia Fewless 701-328-5221</td>
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<tr>
<td>Total Coliform Rule</td>
<td>Jeni Walsh 701-328-5231</td>
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<td>Josh Seerup 701-328-5257</td>
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<tr>
<td>Unregulated Contaminant Monitoring</td>
<td>LeeAnn Tillotson 701-328-5293</td>
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<tr>
<td>Volatile Organic Chemicals (VOCs)</td>
<td>Lydia Fewless 701-328-5221</td>
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### Central Phone: 701-328-5211

## North Dakota Pollutant Discharge Elimination System Program Directory

<table>
<thead>
<tr>
<th>Program Administrator</th>
<th>Marty Haroldson 701-328-5234</th>
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<tbody>
<tr>
<td>Animal Feeding Operations</td>
<td>Brady Espe 701-328-5228</td>
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<tr>
<td></td>
<td>Rachel Fast 701-328-5244</td>
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<tr>
<td></td>
<td>Jeremy Lang 701-328-5219</td>
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<tr>
<td>Biosolids</td>
<td>Marty Haroldson 701-328-5234</td>
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<tr>
<td>Construction Stormwater</td>
<td>Dallas Grossman 701-382-5242</td>
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<tr>
<td></td>
<td>Patrick Schuett 701-328-5235</td>
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<td></td>
<td>Dan Webber 701-328-5285</td>
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<tr>
<td>Dewatering and Hydrostatic Testing</td>
<td>Sarah Waldron 701-328-5237</td>
</tr>
<tr>
<td>Discharge Monitoring Reports (DMRs)</td>
<td>All Staff 701-328-5210</td>
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<tr>
<td>DMR Quality Assurance (QA) Study</td>
<td>Marty Haroldson 701-328-5234</td>
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<tr>
<td>Industrial Pretreatment</td>
<td>Jeff Roerick 701-328-5240</td>
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<tr>
<td>Industrial Stormwater</td>
<td>Dallas Grossman 701-328-5242</td>
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<td>Patrick Schuett 701-328-5235</td>
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<tr>
<td>Inspections</td>
<td>All Staff 701-328-5210</td>
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<tr>
<td>Lagoon Overflows/Releases/Spills</td>
<td>All Staff 701-328-5210</td>
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<tr>
<td>MS4 Stormwater</td>
<td>Dallas Grossman 701-328-5242</td>
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<td>Patrick Schuett 701-328-5235</td>
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<tr>
<td>Public Notices/NDPDES Permits</td>
<td>Curt Steier 701-328-5260</td>
</tr>
<tr>
<td>Septic Pumper</td>
<td>Sarah Waldron 701-328-5237</td>
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<td>Marty Haroldson 701-328-5234</td>
</tr>
<tr>
<td>Wastewater Discharge Approvals</td>
<td>All Staff 701-328-5210</td>
</tr>
</tbody>
</table>

### Central Phone: 701-328-5210

### Fax: 701-328-5200
Minnesota, North Dakota and South Dakota AWWA request abstracts for both verbal and poster presentations for the 2016 Surface Water Treatment Workshop. This regional conference presented by MNAWWA, NDAWWA and SDAWWA will provide current technical, process, and operational information to engineers, scientists, municipalities, and end users of surface water treatment facilities. The technical sessions at the 2016 Surface Water Treatment Workshop will include all topics related to surface water in Minnesota, North Dakota and South Dakota.

**DATES TO REMEMBER**

- Abstracts Due: October 15, 2015
- Notification of Acceptance: November 15, 2015

**TOPICS MAY INCLUDE:**

**UTILITY MANAGEMENT & OPERATIONS**
- Emerging Contaminants
- Regulations
- Sustainability
- Financing
- Asset Management
- Utility Management
- Water Conservation
- Source Water Issues
- GIS Applications

**WATER TREATMENT & TECHNOLOGY**
- Treatment Technologies
- Lime Softening
- Membrane Technologies
- Chemical Feed Optimization
- Innovative Treatment
- Filter Optimization
- Biological Treatment
- Residuals Handling
- Taste & Odor Removal
- Chemical Usages

**SUPPLY, DISTRIBUTION & GREEN TECHNOLOGIES**
- Disinfection
- Disinfection By-Products
- Water Storage Issues
- Distribution
- Water Age
- Water Modeling
- Stormwater
- Surface Water Intake Issues
- Green Technologies

The presentation selection committee will view quality of the abstract as an indication of the quality expected in the presentation and final manuscript. Review of the abstracts will be based on the following criteria:

- Relevance to the theme of the conference and the theme of the individual session(s)
- Significance of the work to a broad audience
- Technical content
- Originality of the work, including new concepts, innovations, or data

To submit an abstract for a presentation or poster, send an electronic copy to Jim Lennington by October 15.

Jim Lennington  
Barlett & West  
jim.lennington@bartwest.com  
Ph: (701) 221-8343
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