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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.

FFICIAL

Official Publication of the North Dakota Water and Pollution Control Conference

Conference Issue

Established 1935

VOL. 97

SUBJECT

July 2011-September 2011

NOS. 7-9

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INDEX TO ADVERTISERS

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FIRM	PAGE
AE2S, Inc	21, 59
Apex Engineering Group	56, back cover
Bartlett & West	
Bonestroo	
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Fargo Water Equipment, Inc.	
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Hawkins Water Treatment Group	
Hobas Pipe USA	
Houston Engineering	inside back cover
Hughes Lift Station Service, Inc.	32
Interstate Engineering	
Jet-Way Multiple Services, Inc	34, 53
Kadrmas, Lee & Jackson	
KLM Engineering, Inc.	40
Moore Engineering, Inc.	34, 49
MVTL Laboratories, Inc.	47
ND Sewage Pump & Lift Station Service Co. Inc	32, 51
Short Elliot Hendrickson Inc. (SEH)	35, 51
Sioux Valley Environmental	55
Team Laboratory Chemical Corp	inside front cover, 59
Thein Well	
Tonka Water Treatment Systems	27, 34
Treatment Resources Inc.	58
Ulteig	
Van Bergen & Markson, Inc.	34
Vessco, Inc.	
Widseth Smith Nolting	33
Wold Engineering, P.C.	

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TABLE OF CONTENTS

SUBJECT	PAGE
President's Letter	2
2011 Conference Officers	2
2011 Conference Announcement	3
Missouri River Flood 2011: A Photo Journal	4
2011 Annual Conference Activities	
Conference Registration Form	20
2011 Meeting Schedule	
Schedule of Concurrent Sessions	24
Guide to Exhibitors in the Tabletop Display Program	29
2011 Conference Sponsors for Door Prizes, Social Hour,	
Coffee Breaks and Golf Tournament	34
APWA Membership Application	36
NDWPCC Joint Board Meeting Minutes	37
The 2012 Surface Water Treatment Workshop	38
North Dakota Water Quality Monitoring Conference	41
North Dakota Rural Water Systems Association,	
26th Annual Water EXPO	41
Conference History	
Jim Chaffee, Vice President, AWWA	43
Sandra Ralston, 2010-2011 Board of Trustees, WEF	
Mapping Ground Water Rule Requirements: Sanitary Surv	
and Corrective Action	
Public Utilities and Waterworks Management Institute	50
North Dakota Water Environment Association	
Executive Committee Meeting Minutes	
Young Professionals Poster Competition	58
Program Directories	60

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

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

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

President's Letter



CHUCK ABEL

Bismarck

PRESIDENT

Dear Conference Members and Friends of the Conference:

On behalf of the North Dakota Chapter of the American Public Works Association, North Dakota Section of the American Water Works Association, North Dakota Water Environment Association and the North Dakota Water and Pollution Control Conference, I invite you to attend the North Dakota Water and Pollution Control Conference scheduled for October 11, 12 and 13, 2011 at the Ramkota Inn in Bismarck.

With all the environmental events that have occurred this year, the Conference is a "must attend." We have a great agenda planned with many interesting and informative sessions scheduled. We will again have a morning buffet breakfast, a full exhibition hall with venders showcasing their latest products, water taste contest, tours of public works infrastructure, plus the Wednesday evening banquet to recognize our outstanding operators, projects and leaders. Plan to attend to visit with old friends and acquaintances and make new ones at the many social activities

This year I challenge you, as members, to become active in one or more of the organizations that work for you to provide this fine Conference of professional operators, communities and engineering professionals.

Plan to attend your Conference in Bismarck and remember to register early.

Sincerely, Chuck Abel, President North Dakota Water and Pollution Control Conference

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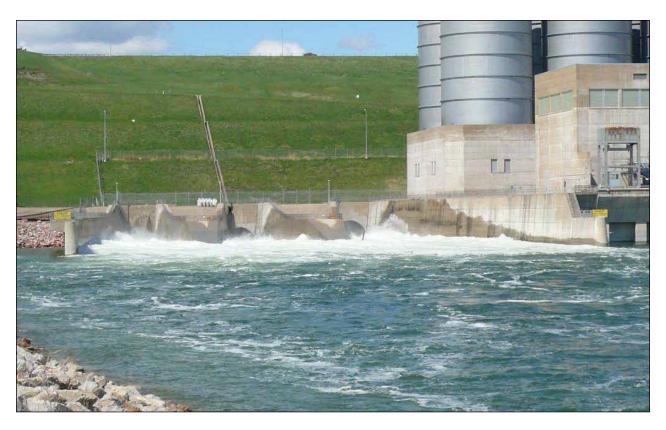
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Missouri River Flood 2011: A Photo Journal



This is just the beginning. Garrison Dam north of Bismarck, mid-May 2011. At this time the dam was releasing approximately 65,000 cubic feet per second (cfs). The maximum release rate was 150,000 cfs in June. Photo by Tammy Lamphear, North Dakota Department of Health.



Bismarck Police Chief Keith Witt surveys the completed grade raise at the Mills Avenue causeway. The water elevation continued to rise until the roadway was nearly overtopped. Photo by Mel Bullinger, city of Bismarck, June 3, 2011.



A city of Bismarck grader blades a wedge of clay material against the HESCOTM barrier dike along Riverwood Drive in Bismarck. Note the flooded parking lot and marina on the river side of the dike. Photo by Mel Bullinger, city of Bismarck, June 3, 2011.



The mid-summer heat stimulated vibrant green algae growth on the 4-foot deep backwater against this dike in south Bismarck. Photo by Mel Bullinger, city of Bismarck, July 4, 2011.



Waiting for the rising flood waters, offering an expression of hope for the best. Photo by Jeff Heintz, city of Bismarck.



The storm water gate at this box culvert on South Washington St. was closed to prevent Missouri River waters from backflowing into the community. This necessitated the pumping of any runoff collected in the storm water channel during precipitation events to the downstream side of the gate. The four 18-inch pumps with 275-horsepower engines with a combined pumping capacity of 30,000 gallons per minute (shown in the photo) were rented for this purpose. Photo by Mel Bullinger, city of Bismarck, July 30, 2011.



The typical request to purchase PTO-sponsored candy pales in comparison to this plea. Photo by Mel Bullinger, July 4, 2011



Life-size garden statues seem to be early wading in the rising flood waters of Fox Island south of Bismarck. Eventually, the statues were nearly submerged by the rising waters. Photo by Jeff Hintz, city of Bismarck.



As the forecasted river stage continued to climb, the initial HESCOTM barrier along Riverwood Drive was bolstered by adding another row of barriers and stacking a third row on top. Note the seepage occurring in the foreground. The highest river stage eventually resulted in about 4 feet of water against these barriers. Photo by Mel Bullinger, city of Bismarck, June 3, 2011.



The North Dakota National Guard provided essential assistance throughout the flood event, including around-the-clock dike monitoring and repair during the flood. A Quick Response Force was stationed at the Riverwood Golf Course to lead these efforts. Photo by Mel Bullinger, city of Bismarck, July 4, 2011.



The Bismarck Public School system provided temporary quarters for North Dakota National Guard at Solheim School in southwest Bismarck to facilitate their dike monitoring efforts. The peak number of soldiers and airmen serving during the Bismarck-Mandan flood fight occurred on June 3 when there were 1,268 guardsmen on duty. Photo by Mel Bullinger, city of Bismarck, July 4, 2011.



A Southport resident's mannequin on the front lawn provides a heartfelt and silent salute to the North Dakota National Guard troops laboring away in the background reinforcing a dike to protect Southport homes and property. Photo by Jeff Heintz, city of Bismarck.



On the Cover: This photo is of a portion of the Hoge/Hogue Island area north of Bismarck. It was taken on July 11, 2011 by Mel Bullinger, city of Bismarck. The historic Missouri River flood of 2011 started in May and continues as this issue of the Official Bulletin goes to press. Releases from Garrison Dam reached a peak of 150,000 cubic feet per second (cfs) in June and have been slowly lowered throughout July and August. At the top of the photo you can see approximately where the original river channel was before the flood.



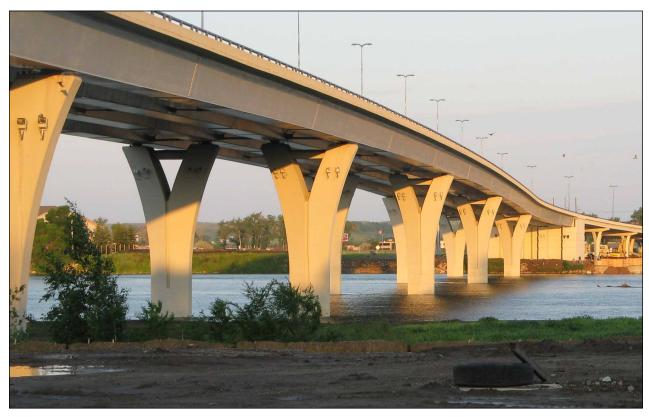
The rising Missouri River quickly inundated trees and an old abandoned crane near the Southport addition in Bismarck. Photo by Mel Bullinger, city of Bismarck, July 4, 2011.



Geese languish on a log in the foreground while the swollen Missouri River rushes by to the Oahe Reservoir. In the background is the Morton County side of the river south of Mandan. Photo by Mel Bullinger, city of Bismarck, July 4, 2011.



Maintaining a sense of humor in the face of adversity. Photo by Jeff Heintz, city of Bismarck.



In contrast to the 2011 photo below, this is a view of the normal water level under the Liberty Memorial Bridge in June 2009. Photo by Mel Bullinger, city of Bismarck.



In late June, 2011 the discharge rate from Garrison Dam was 150,000 cfs. The water level reached major flood stage (19 feet) at Bismarck. Photo by Mel Bullinger, city of Bismarck.



View of Bismarck's horizontal collector well construction site and access road in late August 2009. The Missouri River stage was about 6.1 feet. The arrow in the background points to the site of the HCW. Photo taken from the Liberty Memorial Bridge by Ken Weber, AE,S.



View of Bismarck's horizontal collector well construction site and access road in late May 2011. The Missouri River stage was 15.77 feet. Eventually in June it exceeded 19 feet, resulting in a river depth approximately 13 feet higher than in the prior photo. Photo taken from the same vantage point as above. Photo by Ken Weber, AE₂S.



The rising Missouri River inundates all but the reinforcing steel (arrow) at the very top of the existing caisson for the new horizontal collector well, currently under construction for Bismarck's water treatment plant. Photo by Mel Bullinger, city of Bismarck, July 4, 2011.



A picturesque blue house perches safely atop a little knob of earth, virtually isolated from the rest of the world, and awaiting the arrival of higher floodwaters. Photo by Jeff Heintz, city of Bismarck.



This sheet piling dam (arrow) was privately built to control the water entering the Southport residential area. Water was then pumped out of the bay to lessen the impact of the flood. Photo by Mel Bullinger, city of Bismarck, July 11, 2011.



A view of the Misty Waters area north of Bismarck. The Mandan water treatment plant and Tesoro refinery are visible near the center of the picture. Photo by Mel Bullinger, city of Bismarck, July 11, 2011.



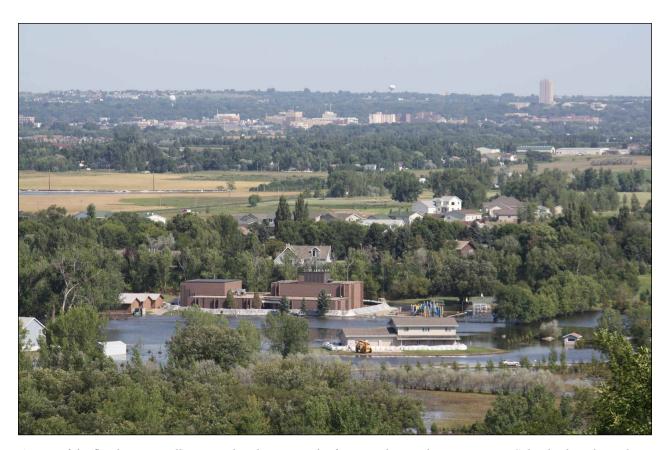
The Briardale area of Bismarck near the University of Mary. Photo by Mel Bullinger, city of Bismarck, July 11, 2011.



Looking northeast toward the Burlington Northern and Grant Marsh bridges. Photo by Mel Bullinger, city of Bismarck, July 11, 2011.



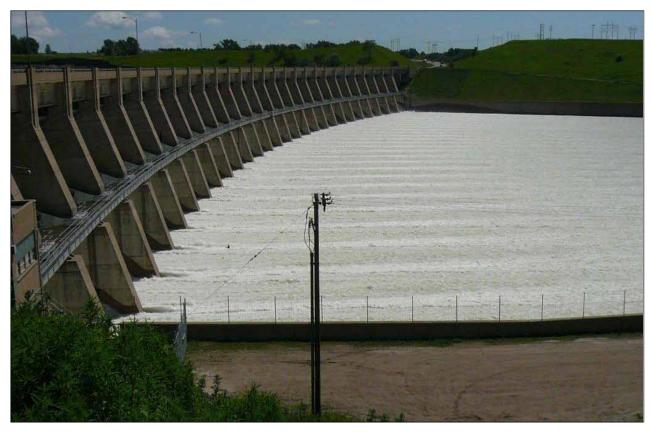
Dangerous currents are clearly visible near the homes of this critically affected Hoge/Hogue Island neighborhood. Photo by Mel Bullinger, city of Bismarck, July 11, 2011.



A view of the flood waters still surrounding homes south of Bismarck near the Prairie Rose School. Photo by Mel Bullinger, July 31, 2011



The Kneifel boat landing recreation area, a Burleigh County Park near the Misty Waters area in north Bismarck, July 29, 2011. By this date the water level had dropped about a foot from the peak. Photo by Mark Armstrong, Burleigh County Commissioner.



Garrison Dam, July 3, 2011. On June 1, 2011, the spillway was opened for the first time since the dam was completed in 1953. Photo by Tammy Lamphear, North Dakota Department of Health.

2011 ANNUAL CONFERENCE ACTIVITIES

REGISTRATION

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

 Wednesday
 8:00 a.m. - 4:00 p.m.

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

Cloak Room/Entrance Dakota Ballroom

WATER AND WASTEWATER
OPERATOR CERTIFICATION EXAMINATIONS

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

TABLETOP DISPLAY PROGRAM
Dakota Ballroom

8:30 a.m. - 5:00 p.m.

5:00 p.m. - 9:00 p.m.

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

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

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

Room 2160

Tuesday

Tuesday

Setup Time

Wednesday

Wednesday

Display Hours

Wednesday

Takedown Time

Last Chance Setup Time

Check In at the Registration Desk

MEALS

Tuesday Lunch 11:30 a.m.

Courtyard

Tuesday Buffet Dinner 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

The 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.

Hawktree Golf Club

STUDENT AND YOUNG PROFESSIONAL'S RECEPTION

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

Buffalo Wild Wings 1501 42nd St. S.

FIELD TRIPS

Wednesday 9:30 a.m.

Bismarck/Mandan Municipal Facilities

Transportation will be provided at door # 4 west of the

Dakota Ballroom

LOCAL ARRANGEMENTS COMMITTEE

Keith Demke Mike Berg
Bill Gefroh Kevin Martin
Lisa Ansley Darin Schaefer
Sarah Volk Steve Himmelspach
Mel Bullinger Gale Nicholson
Charlie Jaszkowiak Jeron Fueller

REGISTRATION FORM

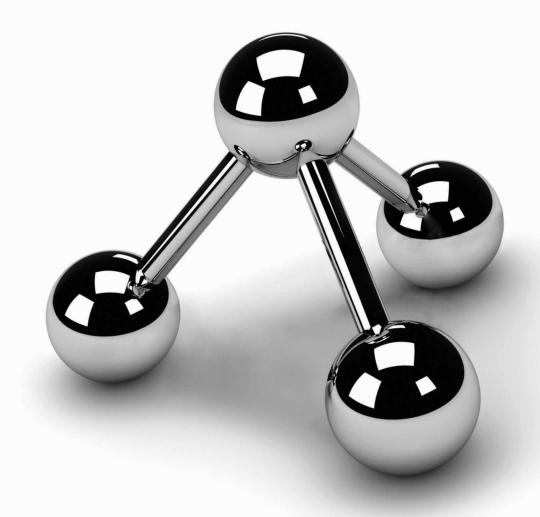
JOINT MEETING OF THE NORTH DAKOTA WATER & POLLUTION CONTROL CONFERENCE NORTH DAKOTA CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION NORTH DAKOTA WATER ENVIRONMENT ASSOCIATION NORTH DAKOTA SECTION OF THE AMERICAN WATER WORKS ASSOCIATION October 11, 12 and 13, 2011, Ramkota Hotel, Bismarck, North Dakota (701) 258-7700

COMPLETE AND RETURN TO:

NDWPCC

918 E. DIVIDE AVE. 3RD FL BISMARCK ND 58501-1947 PHONE: 701-328-6622

EKAGE REGISTRATON (\$150.00 ides all fees for registration quet, buffet and noon luncheons. KAGE REGISTRATION ER SEPTEMBER 23, 2011 0.00) VIDUAL COSTS IF PACKAGE N istration (\$60.00) Jent Registration (\$10.00) S. Luncheon (\$13.00) S. Evening Buffet (\$21.00) J. Buffet Breakfast (Sponsored by I. Luncheon (\$12.00) J. Evening Banquet (\$37.00) S. Luncheon (\$12.00)	NOT SELECTED	Yes Yes Yes F.	No	Do you qualify as a water treatment or water distribution operator for a system serving 3,300 or less? This will determine eligibility for reimbursement. Do you plan to participate in the golf tournament starting at 1:00 p.m. on Tuesday? Your average score or handicap The golf course will be charging a green and golf cart fee. Do you plan to attend the Student and Young Professionals reception on Tuesday? Do you plan to participate in the field trips to Bismarck/Mandan municipal facilities on Wednesday morning? Transportation will be provided.				
RAGE REGISTRATION ER SEPTEMBER 23, 2011 0.00) VIDUAL COSTS IF PACKAGE N istration (\$60.00) lent Registration (\$10.00) s. Luncheon (\$13.00) s. Evening Buffet (\$21.00) l. Buffet Breakfast (Sponsored by l. Luncheon (\$12.00) l. Evening Banquet (\$37.00) rs. Luncheon (\$12.00)	NOT SELECTED	Yes Yes Yes Yes	No No No No	distribution operator for a system serving 3,300 or less? This will determine eligibility for reimbursement. Do you plan to participate in the golf tournament starting at 1:00 p.m. on Tuesday? Your average score or handicap The golf course will be charging a green and golf cart fee. Do you plan to attend the Student and Young Professionals reception on Tuesday? Do you plan to participate in the field trips to Bismarck/Mandan municipal facilities on Wednesday morning? Transportation will be provided. NLY ONE NAME PER REGISTRATION (Make copies if more are needed)				
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rs. Luncheon (\$12.00)				ne No				
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by credit card		Check	· #	Cash				
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2011 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 - 11:30 a.m. Water and Wastewater Operator Certification Examinations

North Dakota Department of Health

Room 2160

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)

Seasons Café I

8:00 a.m. Officers Meeting

North Dakota Water Environment Association (NDWEA)

Seasons Café II

9:30 a.m. Officers Meeting

Joint Board of Directors of the North Dakota Water and Pollution Control Conference

(NDWPCC), NDCAPWA, NDWEA, and NDAWWA

Governor's Room

10:30 a.m. AWWA Committee Meetings

NDAWWA Governor's Room

11:30 a.m. Business Meeting

NDAWWA Courtyard

1:30 - 4:15 p.m. Concurrent Sessions

Missouri Room

Wednesday

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

Room 2160

12:00 noon Business Meeting

NDWEA Courtyard

1:30 - 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 - 11:30 a.m. Concurrent Sessions

Dakota Ballroom

12:00 noon

Business Meetings NDCAPWA and NDWPCC

Courtyard

FUTURE CONFERENCES

2012 - Minot, October 16, 17 and 18, Grand International Inn

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

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

AFTERNOON CONCURRENT SESSIONS TUESDAY, OCTOBER 11, 2011

Luncheon and Business Meeting, NDAWWA 11:30 a.m. Courtyard

Chair Dean Sletten, Presiding Guest Speaker: James Chaffee, Vice President, AWWA, Waupaca, WI

Session C Cannonball Room of the Missouri Room Moderator: Dan Jonasson, Vice President, NDCAPWA	"Mandan Remediation Project Update"	Tim Kenyon, Vice President, Leggette, Brashears, & Graham, Inc.	"The Mouse Keeps Roaring"	Alan Walter, Director of Public Works, City of Minot	Break, Courtyard	"Concrete Overlays for City Streets"
Session C Cannonball Room of the Missouri Room Moderator: Dan Jonasson, Vice Presid					Break,	
Cannonball F Moderator:	1:30 p.m. Title:	Speaker:	2:30 p.m. Title:	Speaker:	3:00 p.m.	3:30 p.m. Title:
Session B Sheyenne Room of the Missouri Room Moderator: Eric Dodds, Past President, NDWEA	"Much-Needed Oil Field, Wastewater Infrastructure"	Jason Benson, Project Manager, AE2S, Jessica Wagner, Project Engineer, AE2S	"Washington Street Pump Station	Mike Berg, Apex Engineering Group	Break, Courtyard	"Auto Thermal, Aerobic Waste-Activated Sludge Digestion"
Sheyenne Room o Moderator: Eric D	1:30 p.m. Title:	Speakers:	2:30 p.m. Title:	Speaker:	3:00 p.m.	3:30 p.m. Title:
Session A e Missouri Room	"Infrastructure Update - City of Bismarck"	Mel Bullinger, City Engineer, City of Bismarck; Keith Demke, Director of Utility Operations, City of Bismarck; Jeff Heintz, Director of Public Works, City of Bismarck	"AWWA Update"	James Chaffee, Vice President, AWWA	Break, Courtyard	"The Latest Advancements in Analytical Instrumentation for the Lab"
Session A Heart Room of the Missouri Room Moderator:	1:30 p. m. Title:	Speakers:	2:30 p.m. Title:	Speaker:	3:00 p.m.	3:30 p.m. Title:

David Sethre, Executive Director, North Dakota Chapter, Inc. - ACPA

Speaker:

James Norberg, UND AWWA/WEF Student Chapter, WEFTEC Design

Speaker:

Eric Lehmann, Hach Co.

Speaker:

"Traffic Signal Operations"

4:00 p.m. Title:

"Environmental Water Use in the Oil

4:00 p.m. Title:

"Wastewater Lab Fundamentals"

4:00 p.m. Title:

Project

Adjourn

4:30 p.m.

Jason Baker, Owner, Baker Consulting Speaker: NDSU AWWA/WEF Student Chapter, WEFTEC Design Project Field" Speaker: Environmental Engineering, SDSU Delvin DeBoer, Professor of Speaker:

Adjourn 4:30 p.m. Student and Young Professional's Buffet Dinner, Courtyard Adjourn 5:00 - 7:00 p.m. 7:00 - 9:00 p.m. 4:30 p.m.

Reception Famous Dave's, 400 E. Expressway

Welcome: Bismarck Mayor John Warford NDWPCC President Chuck Abel

WEDNESDAY, OCTOBER 12, 2011

12:00 Luncheon and Business Meeting, NDWEA Courtyard President Karla Olson, Presiding Guest Speaker: Sandra Ralston, Board of Trustees, WEF, Charleston, SC	Session C Cannonball Room of the Missouri Room Moderator: Terry Boehm, Director, NDCAPWA	1:30 p.m. Title: "Establishing Equitable, Defendable Utility Rates"	Speakers: Miranda Kleven, Special Project Engineer, AE2S; Tina Gustafson, Financial Analyst, AE2S	2:00 p.m. Title: "Engineering Workability for Concrete Projects"	Speaker: David Sethre, Executive Director, North Dakota Chapter, IncACPA	3:00 p.m. Break, Courtyard	3:30 p.m. Title: "Segmental Retaining Walls"	Speaker: Stanley Hamilton, President, ReCon Wall Systems, Inc.	4:30 p.m. Adjoum		
AFTERNOON CONCURRENT SESSIONS	Session B Sheyenne Room of the Missouri Room Moderator: Seth Lynne, Past President	"Dickinson's New Mechanical Wastewater Treatment Facility"	Karla Olson, Apex Engineering Group	"Industrial Pretreatment EPA Region 8 Hot Topics"	Bill Gefroh, City of Bismarck Jeff Roerick, ND Department of Health William Sukalski, City of Grand Forks Terry Rust, City of West Fargo	Break, Courtyard	"Nutrient Removal/Criteria Development Panel Discussion"	Seth Lynne, Apex Engineering Group Wei Lin, NDSU Mike Ell, ND Department of Health Gary Bracht, ND Department of Health Scott Schaeffer, AE2S	Adjourn		
AFTER	Sheyenne Room o Moderator: Seth L	1:30 p.m. Title:	Speaker:	2:00 p.m. Title:	Speakers:	3:00 p.m.	3:30 p.m. Title:	Speakers:	4:30 p.m.		
7:30 - 11:30 a.m. Tabletop Display Program Dakota Ballroom 8:00 a.m 10:00 a.m. Free Breakfast Dakota Ballroom	Session A Missouri Room	"Water Meters"	Tim Stetz, Fargo Water Equipment	"Pipe Bursting Capabilities"	Matt Lawrence, Project Management/Sales, Ellingson Companies	Break, Courtyard	"Water Storage Tank Mixing Study"	Delvin DeBoer, Professor of Environmental Engineering, SDSU	Adjourn	Social Hour, Courtyard	Banquet: Dakota Ballroom Invocation: Terry Rust Master of Ceremonies: Entertainment:
7:30 - 11:30 a.m. Tabletop Display Pr. Dakota Ballroom 8:00 a.m 10:00 a.m. Free Breakfast Dakota Ballroom	Session A Heart Room of the Missouri Room Moderator:	1:30 p.m. Title:	Speaker:	2:00 p.m. Title:	Speaker:	3:00 p.m.	3:30 p.m. Title:	Speaker:	4:30 p.m.	5:30 p.m.	6:30 p.m.

THURSDAY, OCTOBER 13, 2011 MORNING CONCURRENT SESSIONS

Session C e Dakota Ballroom	"The Old and the New-Linking Wastewater Records to GIS for Easy	Bartlett & West	"Infrastructure Contingency Planning for the 2011 Fargo Flood"	Tom Welle, President, Apex Engineering Group	"Emergency Dike Construction, 48" Street and Fox Island, Bismarck"	Sherwin Wanner, Project Manager/Project Engineer, Houston Engineering	Break, Courtyard	"Asset Management"	Mary Anderson, Project Engineer, AE2S			Adjourn	
Session C Lamborn Room of the Dakota Ballroom Moderator:	8:00 a.m. Title :	Speaker:	9:00 a.m. Title: f	Speaker: E	9:30 a.m. Title:	Speaker:	10:00 a.m.	10:30 a.m. Title:	Speaker:			11:30 a.m.	
Session B oom of the Dakota Ballroom Karla Olson, President, NDWEA	"Wastewater Treatment/Collection Panel Discussion"	Karla Olson, Apex Engineering Group Don Tucker, City of Grand Forks Terry Rust, City of West Fargo Wayne Offerdahl, City of Fargo	"China's Three Gorge Dam and its Impact on Water Environment"	Wei Lin, Associate Professor, NDSU	"Roadmap for the City of Mandan: A Comprehensive Sanitary Sewer Master Plan"	Russ Sorenson, Operations Manager, AE2S Jason Benson, Project Manager, AE2S	Break, Courtyard	"A-Z Wastewater Treatment Plant Start- up Guide"	John Fisher, Wastewater Operations Leader, Short-Elliott-Hendrickson, Inc.	"MBBR & IFAS Technologies: An Introduction"	Seth Lynne, Apex Engineering Group	Adjourn	and NDWPCC, Courtyard C President Chuck Abel, Presiding
Session B Patterson Room of the Dakota Ballroom Moderator: Karla Olson, President, NDV	8:00 a.m. Title:	Speakers:	9:00 a.m. Title:	Speaker:	9:30 a.m. Title:	Speakers:	10:00 a.m.	10:30 a.m. Title:	Speaker:	11:00 a.m. Title:	Speaker:	11:30 a.m.	s, NDCAPWA and NDW and NDWPCC Preside
Session A Grand Pacific Room of the Dakota Ballroom Moderator:	"Succession Planning Panel Discussion"	Meredith Quinn, NDAWWA; Keith Hunke, City of Bismarck; Todd Feland, City of Grand Forks; Loren Hoffman, Former Auditor, City of Parshall	"Transformation from Lime Softening to Ultrafiltration and Nanofiltration Treatment"	Wade Hesch, Water Plant Superintendent, City of Valley City	"Effluent Reuse in North Dakota"	Tim Paustian, Apex Engineering Group	Break, Courtyard	"Geophysical Methods for Ground Water Investigations"	John Jansen, Cardno ENTRIX	"Impact of Frack Water on Drinking Water Systems"	Deon Stockert, Drinking Water Manager, AE2S ND Department of Health	Adjoum	Joint Luncheon and Business Meetings, NDCAPWA and NDWPCC, Courtyard NDCAPWA President Shawn Soehren and NDWPCC President Chuck Abel, Presiding Guest Speaker:
Grand Pacific Roor Moderator:	8:00 a.m. Title:	Speakers:	9:00 a.m. Title:	Speaker:	9:30 a.m. Title:	Speaker:	10:00 a.m.	10:30 a.m. Title:	Speaker:	TTTT 11:00 a.m. Title:	Speaker:	11:30 a.m.	E a 00: 20: 21: mber 201 :

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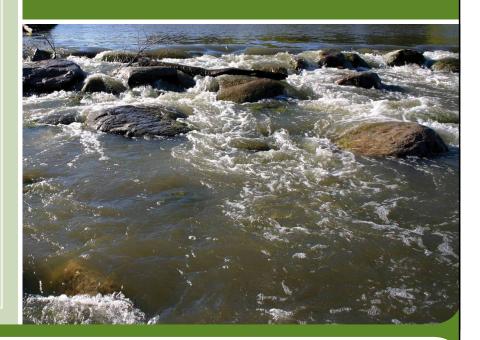
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☐ 50,001 – 100,000	10	\$1190	\$1290
☐ 100,001 – 300,000	16	\$1904	\$2064
☐ 300,001 – 500,000	20	\$2380	\$2580
☐ 500,001 – 1,000,000	26	\$3094	\$3354
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Questions? Contact a membership specialist at 800-848-APWA or membership@apwa.net.

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NDWPCC JOINT BOARD MEETING MINUTES

May 17, 2011, Mandan, North Dakota

A meeting of the Joint Board of Directors of the North Dakota Water and Pollution Control Conference (NDWPCC); North Dakota Water Environment Association (NDWEA); North Dakota Chapter of the American Public Works Association (NDCAPWA); and North Dakota Section of the American Water Works Association (NDAWWA) was held on May 17, 2011, in the Executive I Room of the Seven Seas Inn, Mandan, North Dakota. The following board members and guests were present: Chuck Abel, Lisa Ansley, Terry Boehm, Gary Bracht, Mike Brisben, David Bruschwein, Bill Gefroh, Rick Gillund, Jeff Heintz, Steve Himmelspach, Nancy Huether, Brett Jochim, Dan Jonasson, Dennis Larson, Wei Lin, Seth Lynne, Lance Meyer, Wayne Offerdahl, Karla Olson, Tim Paustian, Terry Rust, Dean Sletten, Shawn Soehren, Jason Sorenson, Larry Thelen, Don Tucker, Sarah Volk, Jessica Wagner, Greg Wavra and Chad Zander.

The meeting was called to order at 10:32 a.m. by NDWPCC President Chuck Abel. Copies of the meeting agenda and NDWPCC financial report (January 1-April 30, 2011) were provided to all in attendance.

President Abel called for a motion to dispense with the reading of the minutes from the January 25, 2011 Joint Board Meeting and approve the minutes mailed to each board member. Dan Jonasson so moved, Terry Rust seconded, and the motion carried.

President Abel called for the Treasurer's report. Mike Brisben reported that so far in 2011 the Conference had a net loss of \$7,193.26 and total assets (as of April 30, 2011) of \$67,947.53. Mr. Brisben noted that an operator expense reimbursement grant payment of \$12,293.76 was pending, which would result in a net profit of \$5,100.50. President Abel called for a motion to approve the Treasurer's Report. Rick Gillund so moved, Dean Sletten seconded, and the motion carried.

Moving on to old business, President Abel reminded the joint board members that a list of topics and presenters was needed by June 1, 2011. Lisa Ansley indicated that NDAWWA would provide speakers for the Wednesday afternoon water session and Sarah Volk and Meredith Quinn would be the section contacts. Terry Rust noted that water and wastewater topics related to flooding would be of interest and that a morning or afternoon session would be appropriate. President Abel recommended involving agencies such as the U.S. Geological Survey, U.S. Army Corps of Engineers and State Water Commission. Reports

from areas affected such as Minot, Fargo and Devils Lake also would be of interest. President Abel indicated he would approach the Health Department on flood response. Brett Jochim noted that Eric Dodds would provide topics for a wastewater session on nutrients, Williston and Watford City oil development and the city of Mandan's master plan.

President Abel called for the next item of old business. Mr. Brisben reported that \$180,000 was added to the Health Department's budget for continuation of the operator expense reimbursement program for drinking water systems. Mr. Brisben noted that approximately \$14,000 remained in the original EPA grant, and he estimated that state funding will begin around the time of the fall conference. Mr. Brisben thanked Eric Volk and ND Rural Water for their lobbying efforts.

President Abel called for any other old business. Hearing none, President Abel called for the first item of new business. Mr. Brisben reported that he had met with the local arrangements committee and convention center. Activities discussed for the fall conference may include a student/young professional reception, trivia night, the annual golf tournament, a Texas Hold'em poker tournament with proceeds going to Water for People and a seven card stud breakfast poker game. NDWEA will once again judge the breakfast poker game, and Steve Himmelspach will help organize the Texas Hold'em tournament. Discussion ensued regarding the student/ young professional event. It was noted that Mr. Dodds has coordinated the Fargo event and that the UND and NDSU student chapters could be contacted to inquire about interest/attendance. Mr. Brisben indicated that a block of rooms at \$84.00 per room had been reserved and that suites for the visiting dignitaries would be the same. Unassigned rooms will be released on September 19, 2011. Mr. Brisben also noted that vendors participating in the exhibitor program will be allowed to ship displays one week prior to the conference.

Mr. Brisben reported on the spring training sessions. A total of 327 operators attended, and 216 exams were written.

President Abel announced that the tentative dates of October 10-13/17-20, 2016 had been reserved in Minot. Mr. Rust inquired as to the history of early or late dates. Mr. Brisben noted that the later date gives Municipal Facilities staff more time to plan and facilitate the conference but also has a greater chance of inclement weather. Mr. Jochim

asked if there was any conflict with WEFTEC. Karla Olson reported that the WEFTEC conference is September 24-28, 2016.

Terry Rust made a motion to accept the October 10-13, 2016 dates, Dan Jonasson seconded and the motion carried

President Abel announced that presenter, sponsor and vendor packages would be mailed in early June. President Abel called for any other new business. Hearing none, President Abel entertained a motion to adjourn. Terry Rust so moved, Bill Gefroh seconded and the meeting adjourned at 11:00 a.m.

The NDWEA can be thanked for the refreshments and the noon luncheon

Respectfully submitted,

Mike Brisben Secretary/Treasurer

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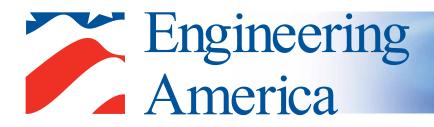


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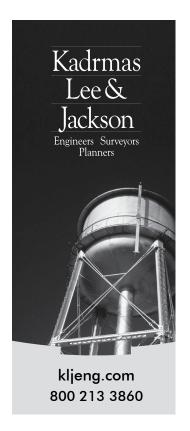
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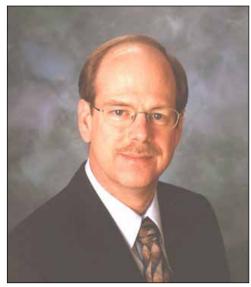
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President	Clarence Johnson	bevan snaw	A.E. Forsman	Kon Duby	Al Swanson	Carl Torkelson	Glenn Berg	Richard Fuller	Frank Orthmeyer	Herbert Arnold	L.W. Veigel	Erik Peterson	Edwin Ostlie	Paul Hays	C.M. Hagen	C.T. Stephenson	Ed Booth	H.H. Behlmer	A.F. Hulteng	George Toman	R.J. Lockner	John Kleven	S.K. Svenkeson	F.W. Pinney	Dave MacDonald	Joe Morrissey	Elmer Pearson	R.M. Jenson	William Nordley	William Yegen	S.S. Calvelage	Ora Ayliffe	S.P. Ravnos	H.T. Hintgen	W.H. Robinson	O.N. Bergman	E.L. Lium	W.P. Tarbell	E.J. Thomas	A.L. Bavone	
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Conference	1969	1908	1967	1900	1967	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	
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Conference	2011	2010	2008	2002	2006	2005	2002	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970



James "Jim" Chaffee Vice-President (2011-2013) American Water Works Association

Jim Chaffee recently retired from AECOM, a global engineering and consulting organization, and is currently consulting on a part-time basis. Over his 35-year career, Jim specialized in providing supply, treatment and infrastructure solutions to the water supply industry.

Jim is active in the waterworks industry and industry organizations. He has an undergraduate degree in engineering and a master's degree in business from the University of Wisconsin system. He is a registered professional engineer in several states and a Board Certified Environmental Engineer from the American Academy of Environmental Engineers.

Jim has been an active member of AWWA for more than 25 years, and has been recognized for his contributions by receiving the Wisconsin Section Leon A. Smith Award in 1996 (for distinguished service) and the George Warren Fuller Award in 2004. He has authored more than 30 papers or presentations covering a variety of current water industry issues. He has also been active in the National Society of Professional Engineers and Wisconsin Association of Consulting Engineers.

In the Wisconsin Section of AWWA, Jim has most recently served as the Section Director. He has also been Section chair and chair of the Research, Conference Planning, Education, Awards and Fuller committees. Jim is actively involved in numerous other committees.

Jim lives in a rural area of central Wisconsin with his wife Jan and his two "hunting buddies," Brandy and Beans.



Sandra Ralston
2010-2011 Board of Trustees
Water Environment Federation

Sandra Ralston is a member of the 2010-2011 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Sandra is currently a Senior Associate and Client Services Manager at Malcolm Pirnie in Charleston, S.C. She also participates on the Business Council of the U.S. Conference of Mayors and as a Strategic Partner for the International City/County Managers Association.

A WEF member since 1989, Sandra served as the chair of the WEF Government Affairs Committee from 2005-2008, with particular focus on increasing outreach to Member Association government affairs committees, conducting the national discussion of what the next 35 years of the Clean Water Act should be and engaging a wider community of stakeholders to talk about the future of wet weather policy. She was a member of the Committee Leadership Council development working group and served as chair of the Stakeholder Focus Group in 2007. She also served on the planning committee for the Utility Management Conference.

Also a member of the Indiana Water Environment Association, Sandra was IWEA President from 2002-2003, served as chair of IWEA's annual conference program and represented IWEA at annual WEFMAX meetings.

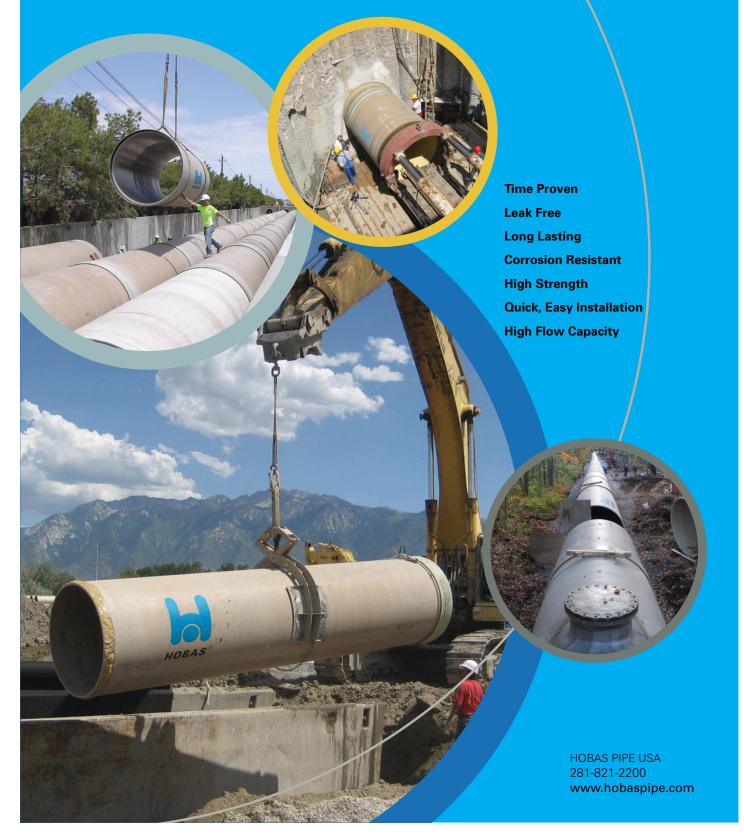
She received a BA from the University of Colorado and an MBA from George Washington University.

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Mapping Ground Water Rule Requirements: Sanitary Survey and Corrective Action

What are the Basic Requirements of the Ground Water Rule (GWR)?

Two of the four GWR requirements (Source water and compliance monitoring) have been discussed in previous articles. Source water monitoring, which includes triggered, additional, and assessment monitoring, is required for systems not providing 4-log treatment. Compliance monitoring is how an operator documents 4-log treatment of viruses by monitoring and maintaining a state-determined minimum disinfectant residual. In this article we will discuss the two remaining requirements: sanitary surveys and corrective action.

How does the GWR Impact the State's Role in Sanitary Surveys?

The purpose of a sanitary survey is to review the public water system's source, equipment, facilities and treatment

procedures to ensure they have been properly maintained and operated to make certain that safe drinking water is distributed to the public. Under the total coliform rule (TCR), the states conducted sanitary surveys on a five-year cycle for community and non-community water systems (CWSs and NCWSs) that collected fewer than five TCR samples per month and every 10 years for NCWSs that disinfected their sources. Under the GWR, the sanitary survey requirements have been revised for GWSs to be consistent with surface water systems by increasing the frequency and completeness of the sanitary surveys to enhance the public health protection. GWR requirements regarding sanitary survey frequency and deadlines are shown in Table 1.

Table 1. Sanitary Survey Frequencies and Dates

System Type	Minimum Frequency	Compliance Date 1
Community GWS (conducting triggered source water monitoring)	Σ	Dl 21 2012
Community GWS providing 4-log treatment (conducting compliance monitoring)	Every 3 years	December 31, 2012
Community GWS with an outstanding performance record ²	Every 5 years	December 31, 2014
Non-community GWS		

¹ Initial sanitary survey must be completed by the compliance date.

How Might Sanitary Surveys Impact Public Water Systems?

The GWR requires (1) a sanitary survey address eight specific elements and (2) the surveyor identify any significant deficiencies that may exist in the water system. A significant deficiency identified during the sanitary survey must be addressed by the public water system within a specified timeframe determined by the state. GWSs should be aware of the eight elements in a sanitary survey and what might be considered a significant deficiency by the state to avoid compromising the quality of the water and public health. The eight elements and some examples of what might be evaluated are described below:

1. Source: well construction, potential source contamination, setback distances, source quantity and quality, well locations, source water transmission mains, site security and general housekeeping.

- 2. Treatment: design criteria, plant records, past inspections, operation, maintenance and overall management of treatment facility.
- 3. Distribution System: review schematics, operation and maintenance records, operating procedures, construction standards, and distribution system water quality data.
- 4. Finished Water Storage: tank integrity, operational readinesss, site security, potential sanitary risks, proper maintenance checks, and operation & maintenance procedures.
- 5. Pumps, Pump Facilities and Controls: pump capacity, maintenance, pump control system, emergency power backup, pump tests, remote monitoring, controls and alarms
- 6. Monitoring, Reporting and Data Verification: compliance with site sampling and monitoring plans, monthly reports, daily logs, analytical results and

² Outstanding performance records are determined by the state.

- monitoring data, and record keeping requirements.
- 7. System Management and Operation: managerial, and financial and technical sustainability.
- 8. Operator Compliance with state requirements: properly certified staff depending on the size and type of system.

If, while conducting a sanitary survey, the state identifies a significant deficiency, it is the state's responsibility to inform the public water system of the deficiency and to work with the public water system to correct the significant deficiency.

Corrective Action

Corrective action is required if the GWS falls into one of the scenarios described below:

- Significant deficiencies are identified by the state during a field visit or a sanitary survey.
- One of the samples collected during triggered source water monitoring is fecal indicator-positive (FI+), and the state requests the system to go straight to corrective action.

• One of the samples collected during additional source water monitoring is FI+.

There are four main corrective action options:

- 1. Correct all significant deficiencies.
- 2 Provide an alternate source of water.
- 3. Eliminate the source of contamination.
- 4. Provide treatment that reliably achieves 4-log treatment of viruses.

The GWR specifies a schedule for corrective actions. The state notifies the GWS of a significant deficiency. The public water system has 30 days to consult with the state to determine an appropriate corrective action. The GWR states that the system has 120 days to complete measures or steps as indicated in its corrective action plan or it must be in compliance with a state-approved corrective action schedule. Table 2 provides a graphic representation of the GWR requirements for corrective action.

CORRECTIVE ACTION TIMELINE REQUIREMENTS Start Date is... Within 120 Days Within 30 Days **Notice of Significant Deficiency** System consults System must Complete steps with state to OR outlined in determine **Corrective Action Corrective Action** Notice from the lab of fecal plan indicator-positive sample from OR triggered source water monitoring and the state requires Corrective OR Action State specifies System must be in OR **Corrective Action** compliance with state-approved Notice of fecal-indicator positive **Corrective Action** sample from at least 1 of 5 additional plan & schedule source water monitoring samples

Table 2. Corrective Action Timeline

Frequently Asked Questions About Sanitary Surveys and Corrective Action

Question 1: Can the system alone (without input from the state or primacy agency) decide whether to go directly to corrective action or to conduct additional source water monitoring?

Answer 1: No. If a triggered source water sample is FI+, the GWS must conduct additional source water monitoring unless it is directed by the state to complete a corrective action. If any of the additional source water monitoring samples are FI+, the system must take corrective action. GWSs must consult with the state within 30 days of being notified by the state of a significant deficiency or receiving

the results from the lab that one or more of the additional source water monitoring samples were FI+.

Question 2: Can a significant deficiency only be identified during a sanitary survey?

Answer 2: No. Under the GWR, states have the authority to identify a significant deficiency at any time.

Question 3: Are significant deficiencies limited to fecal contamination (i.e., only virus-related contamination)? **Answer 3:** No. A significant deficiency is defined as a situation that is causing, or has the potential to cause, introduction of contamination into the water delivered to consumers.

Training Opportunities

The Environmental Protection Agency (EPA) has concluded its workshops and webcast trainings on the GWR at this time; however, there still may be trainings sponsored by your state, EPA region or technical assistance providers. Contact your EPA region or state for more information on workshops or trainings. For more information on the GWR, please visit the GWR homepage at: www.epa.gov/safewater/disinfection/gwr. The next and last article will cover the GWR requirements for public notification, consumer confidence Report and special notice.

This is the fourth article in a series of five, developed by the U.S. Environmental Protection Agency (EPA), Office of Ground Water and Drinking Water, that summarize key components of the GWR. As with all drinking water rules, please check with your primacy agency for specific staterelated requirements.





Matt Lawrence

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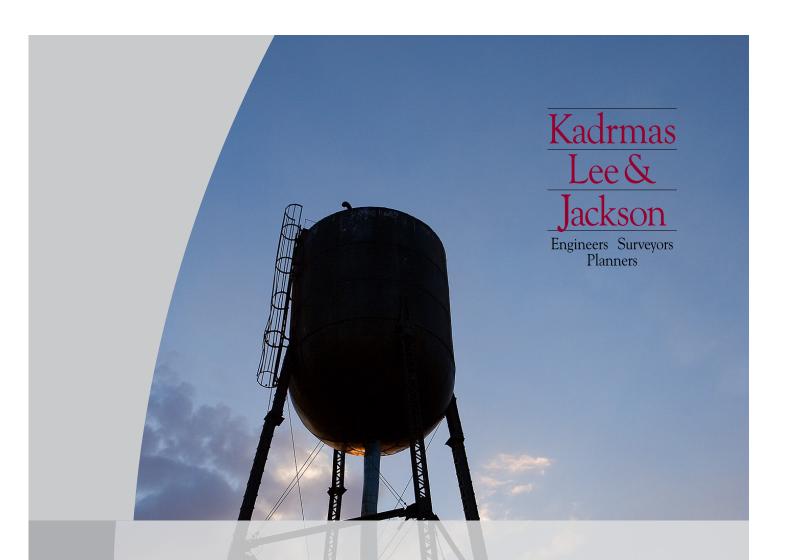


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American Water Works Association

An American Water Works Association Public Utilities and Waterworks Management Institute will be held in Salt Lake City, Utah, September 19-23, 2011.

The management institute is for anyone in a leadership position. This no-nonsense, five-day course will teach you how to put effective management and supervisory skills to work for you and your organization. You'll learn to make better leadership decisions, communicate more effectively, avoid costly mistakes and get the results you want. With participants coming from all over the country, this is a terrific opportunity to share knowledge of the water industry. Plan on attending yourself or sending other managers and supervisors who would benefit from this superior skills program.

Basic Institute Training Program (Days 1-5)

\$499 per student

Classes meet each day from 8:00 a.m. to 5:00 p.m.

Day 1: Foundations of Leadership

Instructor: Dr. Brent Soffe

Provides participants with a knowledge of contemporary leadership principles, essential skills and general functions of management, the role of the supervisor, goal setting and time management.

Day 2: The Leader's Role in Performance Management Instructor: Dr. Brent Soffe

Models of communication and giving and receiving feedback. Understanding work group dynamics, managing teams, group problem solving, team leadership strategies, total quality management and characteristics of high-performance teams.

Day 3: Managing Conflict

Instructor: Van Potter

Emphasizes skills needed in purposefully and appropriately managing conflict, understanding and benefiting from emotions, converting mind-body integration principles into powerful tools, recognizing and expanding perceptions, operating from purpose and developing powerful conflict resolution communication methods

Day 4: Employee Selection

Instructor: Dr. Brent Soffe

Identify ineffective selection methods, learn about the key elements in an effective employee selection system,

conduct a legally defensible employment interview, and develop a set of employee interview guidelines that can be implemented in their organizations.

Day 5: The Leadership of Change

Instructor: Van Potter

Designed to help managers fully understand the nature and necessity of change, its impact on people and how to meet the challenge it presents. Participants learn strategies that help speed up the process and minimize the productivity decline. Emphasis is placed on coaching and leading a team through a complex change situation.

Certification

A formal certificate will be prepared for parties who successfully complete the required course objectives. This certificate is prepared and presented by the Water Utility Management Institute. Optional university certification is also available for the extra fee of \$50 per student and is presented by Utah State University. This management/leadership certificate is primarily for those needing university certification to meet training requirements for various professional affiliations. However, any individual desiring to receive the Utah State University certificate may do so by paying the extra \$50 fee.

Fees, Location and Registration

The Basic Water Utility Management Institute fee is \$499 (plus optional \$50 fee for Utah State University Certification). This includes all instruction, workbook and handout materials.

All institute sessions will be held in the meeting room at Comfort Suites Hotel, 171 North 2100 West, Salt Lake City, Utah 84116. Participants may arrange their own lodging at the Comfort Suites Hotel and take advantage of special rates by mentioning their participation with the AWWA Management Institute. The Comfort Suites Hotel is a full-service hotel including a full complimentary breakfast each day and a courtesy airport shuttle.

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To reserve your spot, complete the registration form on the next page and send it along with your check made payable to Education & Training Services.

For further information, contact Chuck Christensen at 1-800-281-0107 or chuckets@gmail.com

Registration Form – Public Utilities and Waterworks Management Institute:

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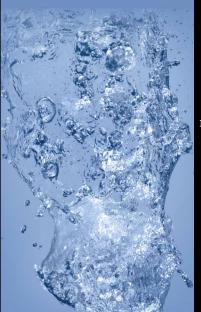
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North Dakota Water Environment Association Executive Committee Meeting Minutes

May 18, 2011

The Executive Committee for the North Dakota Water Environment Association (NDWEA) met at the Seven Seas in Mandan on May 18, 2011. Present were President Karla Olson, President-Elect Don Tucker, Vice President Wei Lin, Past President Seth Lynne, Professional Wastewater Operations Representative Wayne Offerdahl, and Secretary/Treasurer and Delegate Bill Gefroh. Also attending were NDWEA Operations and Safety Committee members Gary Bracht, Terry Rust and Steve Himmelspach, and NDWEA members Brett Yochim and Jessica Wagner.

President Olson called the meeting to order at 11:00 am. President Olson entertained a motion to dispense with the reading and approval of the minutes from the January 25, 2011 meeting as distributed to the Executive Committee members by email. Don Tucker so moved. Wayne Offerdahl seconded the motion, and the motion carried.

Treasurer's Report:

Bill Gefroh presented the Treasurer's Report, which reviewed in detail the receipts and expenses from January through April 30, 2011. The NDWEA net worth, as recorded in the report was \$4,928.87, as compared to \$5,986.67 last year at this time (a decrease of \$1,057.80). President Olson requested a motion to approve the report as presented. Seth Lynne so moved. Wei Lin seconded the motion, and the motion carried.

Membership Report:

Bill Gefroh reported that the current NDWEA membership is 129 compared to 143 at this time last year. The student membership is 22. WEF no longer counts delinquent members (although a three-month grace period beyond expiration is included in the current membership), which accounts for most of the decrease.

Old Business:

Potential topics and speakers were discussed for the 2011 North Dakota Water and Pollution Control Conference (NDWPCC):

- 1. University of North Dakota (UND) student group classic wastewater design topic "Autothermal Aerobic Waste Activated Sludge Digestion" will be presented at the Water Environment Federation Technical Exposition Conference (WEFTEC) design project (James Norberg; contact Harvey Gullicks).
- 2. North Dakota State University (NDSU) student group, environmental topic, "Environmental Water Use in the Oil Field" will be presented at the WEFTEC design project (contact Wei Lin).

- 3. "Wastewater Treatment and Collections" panel discussion Karla Olson, Don Tucker, Terry Rust and Wayne Offerdahl.
- 4. "Industrial Pretreatment EPA Region 8 Hot Topics" panel discussion Bill Gefroh, Jeff Roerick, William Sukalski and Terry Rust.
- 5. "Lab Data Interpretation" Delvin DeBoer with South Dakota State University (contact Seth Lynne).
- 6. "Nutrient Removal" Wei Lin.
- 7. "Fundamentals of Nitrogen and Phosphorus Removal in Wastewater Treatment" Scott Schaffer.
- 8. "Phosphorous and Nitrogen Removal and Nutrient Trading" panel discussion – Seth Lynne, Gary Bracht, Mike Ell, Scott Schaffer and Wei Lin.
- 9. "With All the Oil Comes Much Needed Wastewater Infrastructure" Jason Benson and Jessica Wagner.
- 10. "Roadmap for the City of Mandan: A Comprehensive Sanitary Sewer Master Plan" Jason Benson and Russ Sorenson.
- 11. "China Tour" Wei Lin.

Mike Brisben will verify speakers, topic titles and placement onto the 2011 NDWPCC wastewater program.

The NDWEA 2011 Stockholm Junior Water Prize state winner is Gage Metzen from Hankinson High School. The title of his research project is, "Does Agriculture Affect Water Quality." Gage and his science teacher Marcus Friskop will compete nationally June 23-25, 2011 in Chicago, Illinois.

New Business:

A UND and NDSU student chapter presentation track with emphasis on water, wastewater and environmental research was suggested by Wei Lin. Mr. Lin indicated a graduate student presentation track, would provide an opportunity for more students to do presentations and, have peer review, and encourage more students to attend the NDWPCC. It was suggested these presentations be held in the Governor's Room (a smaller room) at the Ramkota in conjunction with the water, wastewater and public works tracks. This idea will be further researched by Karla Olson, Wei Lin and Eric Dodds and communicated to Mike Brisben.

Eric Dodds provided a summary by email of the Water Environment Federation Member Association Exchange meeting that he attended in New Jersey.

 The House of Delegates (HOD) continues to work on Operator Outreach efforts and has asked WEF staff to develop additional surveys related to training at the member association (MA) level. There is interest in developing regional training opportunities. In some states, the MA handles operator certification and training (taken over from the state). WEF and MAs are considering forming a clearinghouse for the training materials. An operator certification summit at WEF headquarters is scheduled for June 2011. One goal is to develop a definition of "operator," as there is not a clear standard in the industry across states, MAs, cities, etc.

- WEF is very interested in increasing its international presence. While there is an international workgroup that is off to a slow start the aim is to identify partners on the international level that will help WEF expand its reach
- WEF/MA relationships continue to be a topic, with the focus now on technical committees. The goal is to provide a better link between similar committees at the WEF and MA levels.
- WEF is going through a strategic planning process and are trying to get more feedback. You are encouraged to contact WEF to share your thoughts. Many questions were related to the WEF/MA relationship, the role of the HOD, and its strengths and weaknesses.
- In 2011, the WEF Hot Topic items include nutrients, energy, stormwater, funding, global outreach, operator

initiatives and collaboration with the American Water Works Association

The NDSU student chapter will host the fifth International Student Prairie Conference on environmental issues to be held in Fargo on June 2-4, 2011. NDSU, UND, University of Manitoba, and South Dakota State University students will do presentations and tour the Fargo effluent reuse facility and lift stations.

NDWEA will continue to provide the Presidents Service Award. Karla Olson made a motion to purchase a stock quantity of the WEF medallions for the plaques that are no longer provided by WEF. Seth Lynne seconded the motion, and the motion carried.

With no further business, Terry Rust make a motion to adjourn, Wayne Offerdahl seconded the motion, and the meeting adjourned at 12:45 pm.

Respectfully submitted, Bill Gefroh NDWEA Secretary-Treasurer

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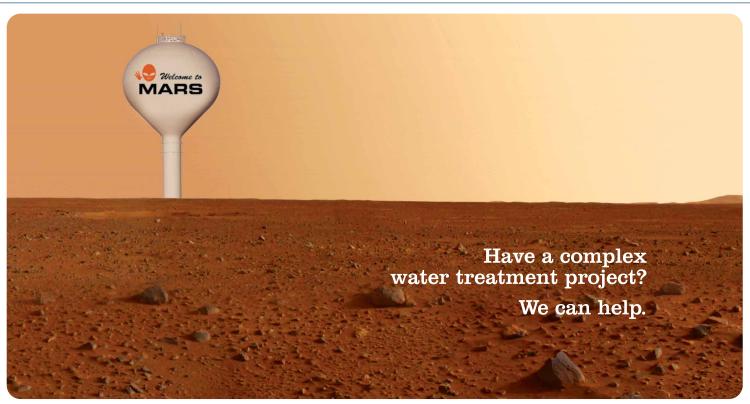
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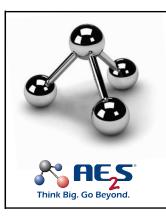
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