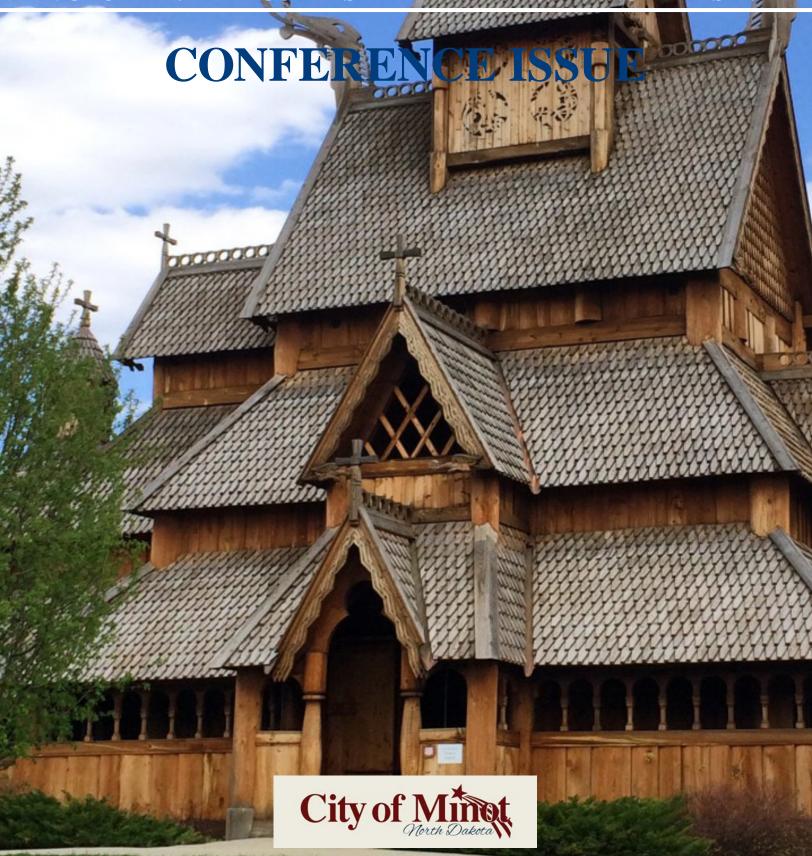


**VOLUME 104** 

**JULY - SEPTEMBER 2016** 

NUMBERS 7-9



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#### **Business Manager**

Kelly Hochhalter

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Drinking Water Program Staff
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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

## OFFICIAL BULLETIN

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**SUBJECT** 

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

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#### 2016 ANNUAL CONFERENCE ACTIVITIES October 11-13, 2016

#### UTILITY WORKFORCE OUTREACH AND RECRUITING

Monday 8:00 am - 5:00 pm. Holiday Inn Riverside

2200 Burdick Expressway East

#### **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.

 Lobby

#### **MEALS**

Tuesday Lunch 11:30 a.m.

Exhibition and Rhodes Room

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

Exhibition and Rhodes Room

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

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Exhibition and Rhodes Room

Wednesday Lunch 12:00 noon

Exhibition and Rhodes Room

Wednesday Social 5:30 p.m.

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Wednesday Banquet 6:30 p.m.

Exhibition and Rhodes Room

Thursday Lunch 12:00 noon

Exhibition and Rhodes Room

#### **GOLF TOURNAMENT**

Tuesday 1:00 p.m.

Souris Valley Golf Course 2400 14<sup>th</sup> Ave SW

Minot, ND

#### **DEUCES WILD! DUELING PIANOS**

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

Exhibition and Rhodes Room

#### WATER AND WASTEWATER OPERATOR CERTIFICATION EXAMINATIONS

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

Aegean Room

#### pH CERTIFICATION

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

Holiday Inn Riverside

2200 Burdick Expressway East

#### YP POSTER COMPETITION

**Wednesday** 8:30 a.m. – 10:30 a.m.

Lobby

#### **TABLETOP DISPLAY PROGRAM**

Coliseum

**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

#### **FIELD TRIPS**

Tuesday 2:00 p.m.

Minot Municipal Facilities

#### LOCAL ARRANGEMENTS COMMITTEE

Jason SorensonDayna MortonDan JonassonLance MeyerRick HairJacqueline DeMent

#### **President's Letter**

by Dan Jonasson, President - North Dakota Water and Pollution Control Conference



Dear Conference Members and Friends:

The annual North Dakota Water and Pollution Control Conference is jointly sponsored by the North Dakota Water and Pollution Control Conference, the North Dakota Water Environment Association, the North Dakota Section of the American Water Works Association, the North Dakota Chapter of the American Public Works Association, and the North Dakota Chapter of the North American Stormwater and Erosion Control Association. On behalf of these sponsoring organizations, I am happy to invite you to attend the 88th Annual Conference October 11, 12 and 13 at the Holiday Inn in Minot.

The 2016 Annual Conference promises to be an excellent event, complete with informative technical presentations emphasizing recent projects, the latest regulatory updates, operational challenges and issues affecting our local utilities. The conference includes a full vendor exhibition displaying the latest equipment, products and services as well as our annual water tasting contest. On Tuesday evening, I invite everyone to attend a new conference event; entertainment provided by Dueling Pianos! As always, the Wednesday banquet will provide opportunities for networking with colleagues and friends, and honor the accomplishments of deserving operators, communities and design professionals. Tours of Minot's most recent infrastructure improvements will also be available during the conference. As operators, decision makers and engineers responsible for the infrastructure of our state, I encourage you all to become active members in these incredible organizations today. Please join me at the Annual Conference this October in my hometown, Minot. See you there!

Sincerely, Seth Lynne, President North Dakota Water and Pollution Control Conference



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#### **JOINT MEETINGS OF THE**

NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE 88<sup>TH</sup> ANNUAL CONFERENCE

NORTH DAKOTA WATER **ENVIRONMENT ASSOCIATION 57<sup>TH</sup> ANNUAL CONFERENCE** 

NORTH DAKOTA CHAPTER OF THE AMERICAN **PUBLIC WORKS ASSOCIATION** 61<sup>TH</sup> ANNUAL CONFERENCE

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> OCTOBER 11, 12, AND 13, 2016 MINOT, NORTH DAKOTA **HOLIDAY INN RIVERSIDE** 2200 BURDICK EXPRESSWAY EAST 701-852-2504

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#### Seasonal Non-Community Public Water System Start-Up Certification

NORTH DAKOTA DEPARTMENT OF HEALTH DIVISION OF MUNICIPAL FACILITIES SFN 60775 (6-2015)

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.

Public Water System (PWS) Name:	PWS Num	nber: (ex: ND1	1234567)	
Operator Name:	Date Wat	er System Op	ens to the	Public:
	1	Indicate if	item was c	ompleted.
Did the system conduct a full system inspection?  Date?			Yes: 🗖	No: 🗖
Conduct an integrity check? (pressurize the system and locand pressure drops) Date?	k for leaks		Yes:	No:
Did the system flush the distribution system?  Date?			Yes: 🗖	No: 🗖
Did the system follow the department start-up checklist? The system should use the department checklist unless a way specific checklist has been developed.	ritten system	N/A: 🗖	Yes:	No: 🗖
Have all operators been trained in the proper operation an maintenance of the water system?	d		Yes: 🗖	No: 🗖
Was the system disinfected prior to serving water to custo Date?	mers?		Yes: 🗖	No: 🗖
Did the system correct all problems found during the syste and integrity check? If not, explain in the comments section		N/A: <b></b>	Yes: 🗖	No: 🗖
Did the system collect a bacteriological sample from the di system prior to serving water to the public?  Date?	stribution	N/A: □	Yes: 🗖	No: 🗖
Comments:				
No later than 14 days after opening for the public for the season, send this form along with sample results (if available) to:	918 E Bisn Telepho Fax	on of Municip E. Divide Ave. narck, ND 58 ne Number Number 701 www.ndhealt	, 3rd Floor 501-1947 701.328.52 .328.5200	

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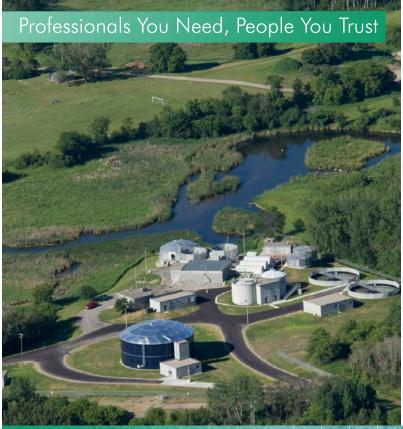
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#### **EPA Requests Greater Diligence Concerning the Lead and Copper Rule**

Greg Wavra, Drinking Water Program Administrator, North Dakota Department of Health

The recent events in Flint, Michigan have resulted in a heightened focus and greater scrutiny on compliance with the Lead and Copper Rule (LCR). Part of the U.S. Environmental Protection Agency's (EPA) response to the Flint situation was a letter the agency sent to all states concerning administration and enforcement of this rule.

The Environmental Health Section of the North Dakota Department of Health (NDDoH) received this letter on February 29, 2016. In the letter, EPA Deputy Assistant Administrator Joel Beauvais outlined actions that EPA requests the NDDoH take to help restore public confidence and increase transparency in our shared effort to ensure safe drinking water.

The five requests are as follows:

- (1) Confirm that the state's protocols and procedures for implementing the LCR are fully consistent with the LCR and applicable guidance.
- (2) Use relevant EPA guidance on LCR sampling protocols and procedures for optimizing corrosion control.
- (3) Post on the NDDoH website all sampling protocols and guidance for identification of Tier 1 sites (where LCR sampling is required to be conducted).
- (4) Work with the public water systems with a priority emphasis on large systems to increase transparency in implementation of the LCR by posting on their public websites and/or the NDDoH? website:
  - The materials inventory that systems were required to complete under LCR, including the locations of lead service lines, together with any updated inventories or maps of lead service lines and lead plumbing in the systems
  - LCR compliance sampling results collected by the system, as well as justification for invalidation of LCR samples
- (5) Enhance efforts to ensure that residents promptly receive lead sampling results from their homes, together with clear information on lead risks and abatement, and that the general public receives prompt information on high lead levels in drinking water systems.

A copy of Mr. Beauvais's letter can be obtained at:

https://www.epa.gov/sites/production/files/2016-03/documents/samplelettercommissionersfeb2016.pdf

In a follow-up letter dated April 1, 2016, Environmental Health Section Chief David Glatt responded in writing to the letter from Mr. Beauvais. In that letter, Mr. Glatt indicated that:

- (1) The NDDoH is utilizing up-to-date procedures and protocols relating to the LCR.
- (2) The NDDoH follows the most current EPA guidance regarding corrosion control.
- (3) The NDDoH will utilize its internet web pages to provide to the public the LCR protocols and guidance documents. These documents are found at:
  - http://www.ndhealth.gov/MF/publications.asp?DivisionID=16&ShowSectionHeading=no
- (4) The NDDoH will encourage public water systems to provide on their internet web pages the results of lead and copper monitoring, and it will work with them to make accessible to the public the materials inventory documentation.
- (5) The NDDoH provides information to the public to assist in understanding lead results and is open to ways that it might enhance this effort.

A copy of Mr. Glatt's letter can be obtained at: http://www.ndhealth.gov/mf/forms/2016-04-LeadCopperRuleResponse.pdf

The NDDoH has fulfilled the commitments made to the EPA concerning the LCR. Reference materials have been made available on the NDDoH website, and the latest protocols for sampling and corrosion control are being utilized. The NDDoH is also encouraging water systems in North Dakota to make results and material inventory documentation available to their customers.

The recent problems in Flint, Michigan have damaged the trust that Americans have in their drinking water systems. Rebuilding confidence will take time, and it is important that we "get it right" on both the utility and regulatory levels. The NDDoH will continue to work as a partner with public water systems to properly monitor according to the LCR and to follow up with both public education and corrosion control when appropriate.

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#### **Updating Lead and Copper Rule Sample Site Plans**

### Amy Kinzler, Lead and Copper Rule Manager North Dakota Department of Health

Lead in drinking water continues to be a hot topic nationally due to recent events in Flint, Michigan. With this extra scrutiny the EPA has requested that all states review and enhance the administration and enforcement of the Lead and Copper Rule (LCR). As part of this review, it has been determined that LCR sample site plans must be validated. Therefore, over the next three years, as all public water systems come due for their next lead and copper tap monitoring, a packet containing resources to update and certify the LCR sample site plan will be provided.

The LCR was first promulgated by the EPA in 1991 and community (CWS) and non-transient non-community public water systems (NTNCWS) in North Dakota were asked to develop lead and copper sample site plans in accordance with the rule starting that year. All systems were required to have an approved plan prior to starting tap monitoring. Although some of these plans have been updated over the years many have remained unchanged for over 20 years!

The sample plan development required a materials evaluation of the distribution system. This materials survey included a review of all available sources of information such as plumbing and building permits, inspection records, utility records, and physical inspections. The information gathered was used to select sites which qualified due to a risk for lead and copper leaching. The LCR requires that sites are selected and classified by tier group which is determined by the materials present.

Tier	cws	NTNCWS
Tier 1	<ul> <li>Single family structures:</li> <li>Copper pipe and lead solder installed after 1982 or with lead pipes; and/or</li> <li>Served by lead service lines (LSLs).</li> </ul>	<ul> <li>Buildings:</li> <li>Copper pipe and lead solder installed after 1982, and/or</li> <li>Served LSLs.</li> </ul>
Tier 2	<ul> <li>Buildings including multiple family residences (MFRs):</li> <li>Copper pipe and lead solder installed after 1982, or with lead pipes; and/or</li> <li>Served by LSLs.</li> </ul>	Buildings with copper pipe and lead solder installed before 1983.
Tier 3	Single family structures with copper pipes having lead solder installed before 1983.	N/A

If a CWS or NTNCWS does not have enough tiered sites, it must collect from representative sites where plumbing is similar to that used at most other sites served.

Tier 1 sites must be used if they are available, followed by tier 2, then tier 3, and finally non-tiered representative sites. If a system has lead service lines (LSL) then LSL sites must account for 50% of the

required samples collected unless there are not enough sites to do so. If there are not enough LSL sites from which to collect half of the samples then every known LSL site must be sampled.

Through the upcoming process of verifying and/or updating the sample site plans, materials inventory information should also be gathered and updated. The EPA has requested that public water systems move towards greater transparency by making this type of information, especially the location of lead service lines, available to customers. This can be done either by posting to websites, or by making it available to the public in your office.

The Lead and Copper Rule is currently under revision with an expected final proposal scheduled for release in 2017. The recommendations for the rule revision which have been discussed include a mandate for the complete removal of lead service lines, greater emphasis on managing water quality parameters, enhanced customer outreach and education as well as overall greater transparency. The process of reviewing and verifying the LCR sample site plans will assist public water systems in preparing for the implementation of these forthcoming revisions.



#### **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 11-13th, 2016, Holiday Inn, Minot, North Dakota (701) 852-2504

**COMPLETE AND RETURN TO:** 

NDWPCC

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

A.	REGISTRANT INFORMATION (Use only one name per registration) (Please Print or Type) First Name	Fir	st Name	GISTRATION
	Last Name			
	Addr. Line 1			neon (\$21.00)
	Addr. Line 2			t (\$28.00)
	City			: Breakfast (Free)
	State Zip			ng Banquet (\$48.00)
	Job Title			cheon (\$23.00)
	Employer	E. TO	TAL PA	YMENT DUE:
	Work Phone No.	(Enter a	appropria	te payment below)
	Fax Phone No.		ease bill ι	
	Email		y by cred	
				s enclosed
B.	REGISTRATION TYPE			
	Reg. Fee			Ilution Control Conference or NDWPCC
	□ Package* (\$205.00) □ Late Package** (\$225.00)	_	_	L THAT APPLY
	□ Individual (\$65.00) □ Student (\$10.00)	Yes	No	Do you qualify as a water treatment or water
	*Packages include reg. fee, banquet, buffet, and luncheons			distribution operator for a system serving 3,300 or less? This will determine eligibility for
	**Late Package Registration Deadline September 23, 2016	_		reimbursement.
C.	INDIVIDUAL MEAL FEES (Included in Package Registration)			Do you plan to participate in the golf tournament? If so, indicate your average score
	Tues. Luncheon (\$21.00)			or handicap The golf course will be charging a green and
	Tues. Buffet (\$28.00)			cart fee.  Are you a young professional 35 or younger?
	Wed. Buffet Breakfast (Free)			Do you plan to attend the pH certification?
	Wed. Luncheon (\$20.00)		_	
	Wed. Evening Banquet (\$48.00)            Thurs. Luncheon (\$23.00)	(Please	e indicate	P – Utility Workforce Outreach and Recruiting attendance)
		Yes	No	Maria dan
				Monday 8:00 a.m. – 5:00 p.m.
		_		

(over)

H. Minot Public Facilities Tours (Please indicate attendance)

Yes No

Tuesday 2:00-4:00 p.m.

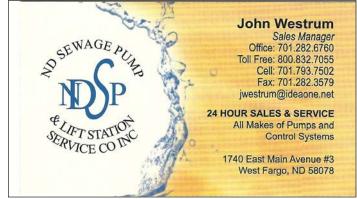
□ □ Water Treatment Plant, High Service Pump Station, 6<sup>th</sup> Street Underpass Pump Station, and Minot Flood Wall.

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#### **BIOGRAPHICAL BACKGROUND**

Jeanne M. Bennett-Bailey
President (2016-2017)
American Water Works Association

Jeanne has worked in the drinking-water community for more than 25 years. Recently retired, she served as the Public Affairs Officer for Fairfax Water for over 12 years. Fairfax Water is the largest drinking-water utility in Virginia, serving nearly 2 million people in the Washington Metropolitan area.

For more than a decade, Jeanne worked in Fairfax Water's laboratory. In addition to conducting sampling and analysis, she was particularly involved in the study and implementation of regulations. Having also worked in the field of regulatory development for the Government Affairs Office of the American Water Works Association, she has a broad knowledge of both regulatory and operational aspects of water-quality and utility issues.

An AWWA member since 1990, she served as Chair of AWWA's Public Affairs Council and as a member of the Diversity and Member Inclusion committee and many technical committees. Jeanne was honored as the 2014 AWWA Volunteer of the Year. Jeanne comes from the Virginia Section where she served on various committees.

Jeanne lives in Fairfax, VA with her partner Jane. They enjoy singing in their church choir, any day on a boat, and traveling to new and interesting places.





**Karen Kubick** is a member of the 2015-2016 Board of Trustees for the Water Environment Federation (WEF), an international organization of water quality professionals headquartered in Alexandria, Va.

Karen is the director of the Wastewater Enterprise Capital Improvement Program for the City and County of San Francisco's Public utilities Commission (SFPUC). She has nearly 30 years of public and private experience working in program and project management, and engineering capacities in the wastewater, power, and water utilities for the city and county of San Francisco.

She has directed several major infrastructure programs, including: the Recycled Water Master Plan, Zoological Gardens Infrastructure Replacement, Local Water Capital Program, Water System Improvement Program, Renewable and Energy Efficiency, and the San Francisco Electric Reliability Program.

Currently, she is the director of the \$6.9 Billion Sewer System Improvement Program (SSIP) for the SFPUC's Wastewater Enterprise, which addresses the aging infrastructure, operating reliability, and sustainability of San Francisco's sewer system. Under her leadership this program has tackled asset management, climate change adaptation, the creative use of social media, and the development of a Triple Bottom Line decision system reflecting San Francisco's policies and goals. The program has invested in local youth through annual internships and created jobs through development of a green infrastructure construction training program.

Karen has participated actively in WEF since the beginning of her career. She is also a regular presenter at the Design Build Institute of America, Utility Management Conference, and Women in Construction.

Karen received her undergraduate degree in Mechanical Engineering from San Francisco State University, and is a registered Professional Mechanical Engineer in the state of California. Karen is married and has resided in the Bay Area for thirty-five years.





#### **Annual Compliance Report Available**

LeeAnn Tillotson, North Dakota Department of Heatlh

The North Dakota Department of Health Division of Municipal Facilities has completed the Drinking Water Annual Compliance Report (ACR) pertaining to calendar year 2015. As the primacy agency in North Dakota for the federal Safe Drinking Water Act (SDWA), the division is required to complete the ACR for each calendar year and make it available to the public. The deadline for making this report available is July 1 of the following year.

The ACR contains detailed information concerning the violations that public water systems (PWSs) have incurred and overall statistics concerning compliance with SDWA requirements for public water systems in the state.

It is important to understand that the majority of violations referred to in the report have been resolved and that overall compliance rates rise and fall incrementally as new SDWA requirements become effective and public water systems then make adjustments to maintain compliance. It continues to be a significant challenge for public water systems and states to meet the ever-increasing number of requirements of the SDWA.

North Dakota 2015 SDWA compliance information includes:

Population of North Dakota	Approximately 756,927
% of North Dakotans Served by Public Water Systems	Approximately 652,497
Community Public Water Systems	328
Transient, Non-Community PWSs	152
Non-Transient, Non-Community PWSs	25

% of ND population served by public water systems meeting all SDWA health-based standards through approaches including effective treatment and source water protection.

2015 Target: 92% 2015 Actual Status: 96.8%

% of ND public water systems that meet all applicable SDWA health-based standards, through approaches that include effective treatment and source water protection.

2015 Target: 90% 2015 Actual Status: 96.6%

A printable copy of the report can be viewed on the department's website at <a href="http://www.ndhealth.gov/mf">http://www.ndhealth.gov/mf</a>; click on Publications. To obtain a paper copy of the 2015 Drinking Water Compliance Report, write to the North Dakota Department of Health, Division of Municipal Facilities, at 918 E. Divide Ave., 3<sup>rd</sup> Floor, Bismarck, N.D. 58501-1947, or call 701.328.5211.

#### **2016 MEETING SCHEDULE**

**Monday** 

7:30 p.m. **Preconference Meeting** 

North Dakota Section of the American Water Works Association

(NDAWWA)

Mediterranean Room

**Tuesday** 

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

North Dakota Department of Health

Aegean Room

7:30 a.m. Officers Meeting

**NDAWWA** 

Mediterranean Room

8:00 a.m. Officers Meeting

North Dakota Chapter of the American Public Works Association

(NDCAPWA) Forum Room

8:00 a.m. Officers Meeting

North Dakota Water Environment Association (NDWEA)

Ionian Room

**Officers Meeting** 

8:00 a.m. North Dakota Chapter of the North American Stormwater

and Erosion Control Association (NASECA-ND)

Atrium Board Room

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

Mediterranean Room

10:30 a.m. AWWA Committee Meetings

**NDAWWA** 

Mediterranean Room

11:30 a.m. Business Meeting

**NDAWWA** 

Exhibition and Rhodes Room

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

Aegean, Ionian, Mediterranean Rooms

(Over)

# **CONFERENCE HISTORY**

President's Residence	L	Grand Forks	Jamestown	Bismarck	Garrison	Williston	Grand Forks	Casselton	Face	. raigo	Jamestown	Grafton	Minot	West Fardo	Grand Forks	Williston	Dickinson	.lamestown	Grand Forks		IVIIIIOL	Cakes	Jamestown	Bismarck	Fargo	Grand Forks	Mandan	Cooperstown	Grand Forks	Minot	201101	ralgo Biomogol	DISITIALICA	Jamestown	Minot	Grand Forks	Edgeley	Bismarck	Jamestown.	יייים אוניים		Maildail	Wanpeton	Williston	Valley City	Grand Forks	Fargo	Minot	Bismarck	
President		SunM unoc	Donald Wenaas	Harry Hanson	Clarence Johnson	Bevan Shaw	A.E. Forsman	Alvin Mickelson	Ken Biby	Yell Auby	Al Swanson	Carl Torkelson	Glenn Berg	Richard Fuller	Frank Orthmever	Herbert Arnold	W Veige	Frik Peterson	Edwin Ostlia		raul ⊓ays ∩ M ⊔ogon	C.M. Hagen	C.I. Stephenson	Ed Booth	H.H. Behlmer	A.F. Hulteng	George Toman	R.J. Lockner	John Kleven	S K Svenkeson	I W Diago	P.vv. Pilliey	Dave MacDonald	Joe Morrissey	Elmer Pearson	R.M. Jenson	William Nordley	William Yegen	S.S. Calvelage	Ora Ayliffe		O.P. RAVIIOS	H.I. Hintgen	W.H. Robinson	O.N. Bergman	E.L. Lium	W.P. Tarbell	E.J. Thomas	A.L. Bavone	
Host City		WIIISTON	Fargo	Minot	Bismarck	Dickinson	<b>Grand Forks</b>	Mandan	200	רמונים פוריים	Minot	Valley City	Williston	Jamestown	Bismarck	Grand Forks	Dickinson	Fardo	Mandan	Maile to b	VVIIISIOII	Grand Forks	Minot	Jamestown	Fargo	Bismarck	Dickinson	Minot	Grand Forks	Mandan		raigo Dismorol	DISTIBLICK	<b>Grand Forks</b>	Williston	Jamestown	Wahpeton	Dickinson	Minot	Mandan	ממים	٦ ا ا	Grand Forks	Bismarck	Jamestown	Minot	Fargo	Grand Forks	Bismarck	
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President's Residence	Ĺ	Fargo	Minot	Moorhead	Bismarck	Fardo	Bismarck	Grand Forks	Bismarck	Distributor	West Fargo	Fargo	Moorhead	Bismarck	Enderlin	Bismarck	West Fardo	Bismarck	Thompson	11000 TO 11011	valley City	DISTILIZION	Mayville	Valley City	Jamestown	Minot	Fardo	Mandan	Bismarck	Williston	Crand Forks	Gialid Polks	nalvey	Valley City	Grand Forks	Minot	Bismarck	Carrington	Fardo	Dickingon	1001110010 14:0 4:040M	walloid Oily	Fargo	Mandan	Grand Forks	Bismarck	Wahpeton	Minot	Neche	
President	-	Seth Lynne	Dan Jonasson	Dean Sletten	Bill Gefroh	Karla Olson	Chuck Abel	Miranda Kleven	lisa Anslay	Lisa Alisiey	l erry Rust	Mark Blonigen	Tom Welle	Jack Long	Rick Gillund	Mike Schneider	Pat Denne	Charles laszkowiak	Randal Loeslie	Denil poine	Mal Bullingor	Mei bullinger	Wayne Tunseth	Don Olafson	Waide Kritsky	Byron Thronson	Joe Manning	Tom Little	Richard Wanner	Richard Resell	Dwight Wurzhochor		FIII FUIAUS	Dale Hanson	Dan Boyce	Lyle Weeks	Kenneth Reynolds	Dale Townsend	Peter Bilstad	Don Cuskelly	Don Erikoon	DOII EIIKSUII	Ken Skuza	Gerald Zander	Keith Cornell	Peter Mellmer	Lyle Mitzel	Daniel Reiter	Russell Kain	
Host City		MINOT	Bismarck	Fargo	Grand Forks	Minot	Bismarck	Faro	Minot		Bismarck	Fargo	Minot	Bismarck	Fardo	Minot	Bismarck	Faro	Dickinson	Misot	IVIII IOL	DISTIBLICK	Fargo	Minot	Bismarck	Fargo	Minot	Bismarck	Faro	Williston	Mio to		Glarid Porks	Dickinson	Bismarck	Fargo	Williston	Minot	Mandan	lamestown		Glarid POINS	Bismarck	Dickinson	Fargo	Minot	Mandan	<b>Grand Forks</b>	Jamestown	
Conference	0.70	2016	2015	2014	2013	2012	2011	2010	0000	5002	2008	2007	2006	2005	2004	2003	2002	2007	2000	7000	1000	286	1997	1996	1995	1994	1993	1992	1991	1990	1080	1909	008	1987	1986	1985	1984	1983	1982	1981	0007	0061	1979	1978	1977	1976	1975	1974	1973	

#### Risk Management Plan Rule

Ivana Striebel

Does your facility use/store 2500 lbs of chlorine or more? If so your facility most likely falls under **Section 112(r) of the 1990 Clean Air Act.** 

The state of North Dakota does not have primacy for this program and is administer by USEPA, Region 8.

#### **Risk Management Plan Rule**

https://www.epa.gov/rmp

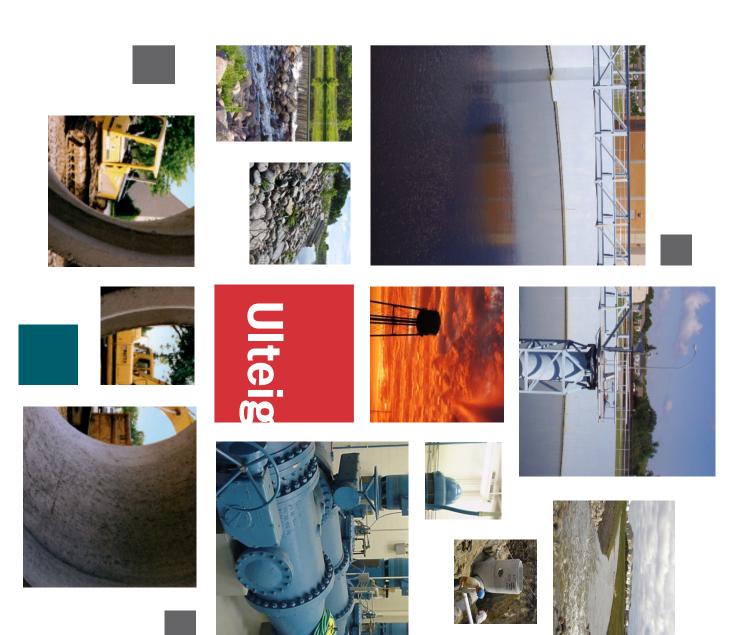
This requires facilities that use extremely hazardous substances to develop a Risk Management Plan. These plans must be revised and resubmitted to EPA every five years. Some highlights are:

- A Hazard Assessment
  - Detailing the potential effects of an accidental release
  - Accident history of the last 5 years
  - Evaluation of worst-case and alternative accidental release scenario
- Prevention Program
  - Safety precautions and maintenance
  - Monitoring
  - Employee training- must be trained before working with chemical and retrained every three years or more often as necessary.
- Emergency Response Program
  - Emergency health care
  - Employee training
  - Procedures for informing the public and response agencies should an accident occur.
- A Summary of the facilities risk management plan (RMP) needs to be submitted to EPA and revised and resubmitted every five years.

#### For more information contact:

Greg Bazley USEPA, Region 8 303-312-6255 bazley.greg@EPA.gov





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# TUESDAY, OCTOBER 11, 2016

Tom Johnson, Water Resources Engineer, Integrating Stormwater Management with Passive Recreation" Jeff Hruby, Civil Practices Director, AE2S "Mouse River Enhanced Flood Protection 'Building a Meandering Stream in Fargo -Ackerman-Estvold; Emily Huettle, Water Resource Engineer, Ackerman-Estvold Jason Westbrock, Vice President, Barr Break - Exhibition and Rhodes Room 'Stormwater Detention - Mudhole or Moderator: Joe Ferguson, President-Elect, NDWPCC "GIS and Public Works" Neighborhood Amenity" Minot Phases 2 & 3" Welcome: Minot Mayor Chuck Barney and NDAWWA Chair Meredith Quinn Session C **Bolton & Menk** Engineering Adjourn Speakers: Title: Title: Title: 1:30 p.m. Title: Speaker: Speaker: Speaker: Aegean Room 2:30 p.m. 3:00 p.m. 3:30 p.m. 4:00 p.m. 4:30 p.m. "Moorhead Biosolids Treatment Disposal and NDSU WEFTEC Design Team, AWWA/WEF Student Chapter Gary Zuroff, Public Works Director, City of Dickinson **AFTERNOON CONCURRENT SESSIONS** "Dickinson Wastewater Beneficial Reuse" Break - Exhibition and Rhodes Room "Prioritizing WWTP Improvements in Uncertain Regulatory Times" "Mandan WWTF Improvements" DelRon Peters, Sr. Wastewater Project Manager, HDR Moderator: Don Tucker, Past President, NDWEA Jason Benson, AE2S Resource Recovery" Session B Adjourn Speakers: Speaker: Speaker: Speaker: Title: 1:30 p.m. Title: 2:30 p.m. Title: 4:00 p.m. Title: Ionian Room 3:00 p.m. 3:30 p.m. 4:30 p.m. Brad Culter, Senior Accounts Development Harvey Gullicks, Senior Project Manager, "Advanced Metering Infrastructure (AMI) Buffet Dinner - Exhibition and Rhodes Chair Meredith Quinn, Presiding Guest Speaker: Jeanne Bennett-Bailey, President, AWWA Break - Exhibition and Rhodes Room Alan Kemmet, Houston Engineering "Advancements in Chemical Feed Dan Portlock, Moore Engineering "Flood Protection Minot Water Systems for Water Treatment" Moderator: Mark Peterson, Trustee, NDAWWA Luncheon and Business Meeting, NDAWWA Manager, Sensus USA "Rolla WTP Upgrades" and New Technology' Treatment Plant" Session A Adjourn **Exhibition and Rhodes Room** AE2S<sup>°</sup> Mediterranean Room Title: Title: Speaker: Title: Title: Speaker: Speaker Speaker: 5:00 - 7:00 p.m. 2:30 p.m. 1:30 p.m. 3:30 p.m. 4:00 p.m. 11:30 a.m. 3:00 p.m. 4:30 p.m.

Entertainment: Deuces Wild! Dueling

Pianos

7:00 - 9:00 p.m.

Room

7:30 - 11:30 a.m. Exhibitor Program Coliseum 8:00 a.m 10:00 a.m. Free Breakfas Exhibition and Rhodes Room	7:30 - 11:30 a.m. Exhibitor Program Coliseum 8:00 a.m 10:00 a.m. Free Breakfast Buffet Exhibition and Rhodes Room	WED	WEDNESDAY, OCTOBER 12, 2016 AFTERNOON CONCURRENT SESSIONS	12:00 noon Luncheon and Busin and NASECA-ND Exhibition and Rhodes Room NDCAPWA President Jeff Heintz President Jeff Hruby, Presiding Guest Speaker:	12:00 noon Luncheon and Business Meetings, NDCAPWA and NASECA-ND Exhibition and Rhodes Room NDCAPWA President Jeff Heintz and NASECA-ND President Jeff Hruby, Presiding Guest Speaker:
Nediterranean Room Moderator: Fred Goetz	NDAWWA Session Mediterranean Room Moderator: Fred Goetz, Trustee, NDAWWA	<b>Ionian Room</b> Moderator: Michael Q	NDWEA Session Ionian Room Moderator: Michael Quamme, President-Elect, NDWEA	N Aegean Room Moderator: Eric Gilber	NDCAPWA Session Aegean Room Moderator: Eric Gilbertson, Director, NDCAPWA
1:30 p.m. Title:	"Community Engineer Core"	1:30 p.m. Title:	"NDDH Spill Investigations Program"	1:30 p.m. Title:	"Water Tower Coatings"
Speaker: 2:00 p.m. Title:	Jeanne Bennett-Bailey, President, AWWA "Gimmicks and Gadgets: Water Treatment Operation and Maintenance Solutions"	Speaker: 2:00 p.m. Title:	Bill Suess, Environmental Scientist, NDDH "Wastewater Treatment and Collection Panel"	Speaker: 2:00 p.m. Title:	Bolton & Menk TBD
Speakers:	Justin Andre, North Prairie Rural Water District; Joe Ferguson, City of Grand Forks; Mitchell Kersting, City of Williston; Cal Oldenburg, AE2S; Adam Zach, AE2S	Speakers:	Bill Gefroh, City of Bismarck; Seth Lynne, Apex Engineering Group; Wayne Offerdahl, City of Fargo; Greg Stack, City of Dickinson; Gary Zuroff, City of Dickinson	Speakers: 2:30 p.m. Speaker:	"Urban Forests/Impact on Stormwater Retention" Mitch Thompson, Forestry Tech., Minot Park District
3:00 p.m.	Break – Exhibition and Rhodes Room	3:00 p.m.	Break – Exhibition and Rhodes Room	3:00 p.m. Title:	Break – Exhibition and Rhodes Room
3:30 p.m. Title: Speaker:	"Replacing AC Pipe" Jane Kangas, Environmental Scientist, NDDH	3:30 p.m. Title: Speakers:	"Minot's Sanitary Sewer System Improvements"  Dan Jonasson, Public Works Director, City of Minot; Tim Paustian, Project Manager,	3:30 p.m. Title: Speaker:	"Bismarck's Future MSW Cell Design" Sherwin Wanner, Houston Engineering
4:00 p.m. Title: Speakers:	"National and State Lead and Copper Update"  Jeanne Bennett-Bailey, President AWWA; Amy Kinzler, Environmental Scientist, NDDH	4:00 p.m. Title: Speakers:	Apex Engineering Group "UV Disinfection of Wastewater Effluent" Wei Lin, Assistant Professor, Civil Engineering, NDSU; Seth Lynne, Associate, Apex Engineering Group; Don Tucker, WWTP Superintendent, City of	4:00 p.m. Title: Speaker:	ТВО
4:30 p.m.	Adjourn	4:30 p.m.	Fargo; Ursinio Paga, Graduate Student, NDSU Adjourn	4:30 p.m.	Adjourn

# THURSDAY, OCTOBER 13, 2016 MORNING CONCURRENT SESSIONS

:	Session A		Session B		NASECA-ND Session
Mediterranean Room Moderator: Adam Zach	Mediterranean Room Moderator: Adam Zach, Chair Education and Research Committee, AMMMA	Ionian Room Moderator: Mike Berg, Director, NDWPCC	irector, NDWPCC	Aegean Room Moderator: Terry Halsteng	Aegean Room Moderator: Terry Halstengard, Board Member, NASECA-ND
8:00 a.m. Title:	"Moorhead Public Service High Service Pumping Station and Yard Piping"	8:00 a.m. Title:	"Fix Before Failure Panel"	8:00 a.m. Title :	"New and Emerging Erosion and Sediment Control"
Speaker:	Ken Demmons, HDR	Speakers:	Jared Hellar, AE <sub>2</sub> S; Dan Jonasson, City of Minot; Wayne Offerdahl, City of Fargo; Terry Rust, City of West Fargo; Don Wald,	Speaker:	
8:30 a.m.	"WIFIA Funding Option"		City of Wanpeton	8:30 a.m. Title:	"MS4 Permit Update"
Speaker:	Deon Stockert, Client Program Manager, AE2s			Speaker:	Dallas Grossman, Environmental Engineer, NDDH
9:00 a.m. Title:	"Considerations for Low Capacity Well Fields"	9:00 a.m. Title:	"Upgrades to the Minot Wastewater Treatment Facility"	9:00 a.m. Title:	"ND Stormwater Criteria Manual/Regulatory Update"
Speaker:	Mike Plante, Associate/Hydrogelogist, Leggette, Brashears and Graham	Speakers:	Seth Lynne, Associate, Apex Engineering Group; Jason Sorenson, Assistant Public Works Director, City of Minot	Speaker:	Dallas Grossman, Environmental Engineer, NDDH
9:30 a.m. Title:	" Applications, Planning and Design Considerations for Horizontal Directional	9:30 a.m. Title:	"Biosolids Alternatives"	9:30 a.m. Title:	"Winter Stabilization Panel"
Speaker:	Driming Michael Quamme, Apex Engineering Group	Speaker:	Colin Marcusen, Senior Professional Engineer, SEH	Speakers:	
10:00 a.m.	Break – Exhibition and Rhodes Room	10:00 a.m.	Break – Exhibition and Rhodes Room	10:00 a.m.	Break – Exhibition and Rhodes Room
10:30 a.m. Title:	"RTCR – First Six Months"	10:30 a.m. Title:	"Agriculture Subirrigation of Processed Water"	10:30 a.m. Title:	"Erosion Control Site Design"
Speakers:	Jeni Walsh, Environmental Scientist, NDDH; Josh Seerup, Environmental Scientist, NDDH	Speaker:	Jeremy Meiners, Vice President, AGREM, LLC	Speakers:	Matt Sperry, Environmental Sciences Administrator, NDDOT: Matthew Stone, Assistant Professor, NDSU
11:00 a.m. Title:	"Drinking Water Program Update"				
Speakers:	Greg Wavra, Drinking Water Program Manager, NDDH; David Bruschwein, DWSRF Program Manager, NDDH; Shannon Fisher, CWSRF Environmental Engineer, NDDH				
11:30 a.m.	Adjourn	11:30 a.m.	Adjourn	11:30 a.m.	Adjourn
12:00 noon	Joint Luncheon and Business Meetings: NDW	VEA AND NDWPCC, Exhibiti	Joint Luncheon and Business Meetings: NDWEA AND NDWPCC, Exhibition and Rhodes Room, NDWEA President Gary Zuroff and NDWPCC Seth Lynne, Presiding	off and NDWPCC Seth Lynne,	Presiding

Guest Speaker: Karen Kubick, Trustee, WEF

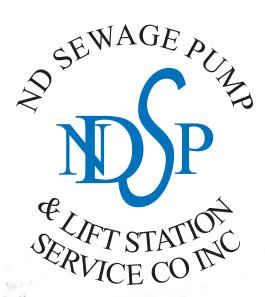
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#### REFERENCE GUIDE TO EXHIBITORS IN THE TABLETOP DISPLAY PROGRAM

OCTOBER 11, 2016 7:30 a.m. to 11:30 a.m.

North Dakota Section of the American Water Works Association Water Taste Contest

North Dakota Section of the American Water Works Association Water for People

North Dakota Water Environment Association

North Dakota Chapter of the American Public Works Association

North Dakota Chapter of the North American Stormwater and Erosion Control Association

Widseth Smith Nolting	Greg Boppre
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Grand Forks, ND 58201	FAX 701-795-1978
	greg.boppre@wsn.us.com

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	justin.hochhalter@HDSupply.com

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# Minot, The Story of a City's Growth: Flood protection, downtown improvements, underground infrastructure and major road projects

August 2, 2016

# Introduction

The list of projects, programs and proposals for public officials within the City of Minot has arguably never been longer. Between flood protection, a major underground overhaul downtown and the addition of 10,000+ people in the last five years, a lot has been done in the last five years and there is plenty of work to stay busy for years to come. Within this article, the authors will run through the highlights, project overviews and current status of just some of those key infrastructure pieces that are taking the Magic City into what leaders hope will be a long-term stable period of expansion.

# **HMGP-Water Treatment Plant Flood Protection Project**

The largest, most damaging flood in Minot's modern history hit in 2011, when a wet fall, heavy winter snow and wet spring combined to surge the Mouse River to flows of 27,400 cfs. This was four to five times what the banks of the river through town were designed to handle. Along with the more than \$1 billion in damages to homes, roads and businesses came problems with protecting the region's source of potable water, the Minot Water Treatment Plant (WTP). After a few years of diligent work from the North Dakota congressional delegation, the North Dakota Department of Emergency Services, the City of Minot and others, FEMA awarded the state in 2014 with Hazard Mitigation Grant Program funding that would pay for 75 percent of what is needed to allow the City of Minot to push forward on the Water Treatment Plant Flood Protection Project.

With the stated goal of preventing future floods (similar to that experienced in 2011) from contaminating and interrupting the potable water supply production and transmission at the Minot Water Treatment Plant, the project is a stand-alone effort that is consistent with the Mouse River Enhanced Flood Protection Plan (MREFPP).

The project work includes the construction of 1,720 linear feet of concrete floodwalls on the south side of the Mouse River, near the plant. These floodwalls will tie into two new temporary roadway closure structures at 16th Street SW and Water Treatment Plant Road (12th Street SW). Earthen levees, a storm water pump station, addition of UV treatment and the relocation of the river intake structures at the treatment plant are also part of the project.

The HMGP-Water Treatment Plant Project will provide protection to the flood of record, plus freeboard. The level of construction and the need for raw materials is great, with concrete quantities for the floodwalls/foundations nearing 6,000 cubic yards of concrete (600+ truck loads!) and rebar in the walls weighing between 1.1 million and 1.15 million pounds. As of the end of July 2016 the project had just reached the milestone of pouring just over 50 percent of the concrete needed for the massive footings and 15-foot tall floodwalls that would provide protection to the water plant.

The City of Minot has a contract with Wagner Construction for a cost of just under \$25 million, with an anticipated end date of the middle of 2017. Wagner crews and their subcontractors say they are ahead of schedule on the bulk of the work, and anticipate finishing the majority of the work before the end of 2016.



Image 1: This perspective of the floodwalls being built to protect the Minot Water Treatment Plant shows how much more concrete goes into the belowground foundation for the 14-15 foot tall floodwalls.

Image 2: The view from the top of the Minot Water Treatment Plant, looking northeast, at the ongoing construction of the enhanced flood protection

# Mouse River Enhanced Flood Protection Project Background

The Mouse River Enhanced Flood Protection Project was initiated by the Souris River Joint Board (SRJB), City of Minot, and the N.D. State Water Commission (NDSWC) in 2011 to provide future flood protection for urban and rural residents throughout the Mouse River Basin. This action was taken in response to the 2011 flood that flowed at a rate of 27,400 cfs and impacted 4,700 residential, commercial and public structures. The MREFPP includes the development of earthen levees, floodwalls, closure structures, two diversion channels, and rural solutions such as ring dikes, relocations, and acquisition and demolition of eligible structures. This project looks at solutions basin-wide, throughout the Souris/Mouse River Valley.

In the five years since its inception, the project has created a Preliminary Engineering Report, a number of associated alternatives studies, project scaling, implementation plans, funding planning and acquisition, and advanced the implementation of the rural StARR program. In addition, the design of three phases and two subphases within the City of Minot is almost complete with construction scheduled to begin shortly on the two subphases and projected in 2017 on the first three phases. The total MREFPP cost is estimated at \$1 billion.

## MREFPP Phase 1

On the project and within the city of Minot, Phase I of the enhanced flood protection plan is called the 4th Avenue North Phase and includes levees and floodwalls along and near 4th Avenue Northeast, between approximately Broadway and 3rd Street Northeast. This portion of the project would provide protection for many homes, businesses, schools and churches in northeast Minot. It is a critical first component to long-term protection to the flood of record and will greatly reduce required emergency measures in the event of another major flood.

The 4th Avenue North Phase will be designed to be compatible with all other components of flood protection. Houston Engineering started design on the project in late 2014 and is near 100 percent design completion. After the design process is complete, it is anticipated the construction will start in 2017 (funding dependent) and go for two construction seasons.

This portion of the MREFPP will include 2,250 linear feet (LF) of floodwalls, 400 feet of earthen levees and one pedestrian closure structure. Maintaining transportation viability is a high priority for this phase, to the extent possible. The 4th Avenue North Project does include a large storm water pump station that was shifted from an adjoining phase. This station, which would handle nearly 200,000 gallons per minute (gpm), will manage Minot's northeast and north storm water runoff during construction and for permanent pumping of water runoff when more phases are complete. In total, this phase of the project is estimated to cost \$67 million to construct.

This project is being designed by Houston Engineering and coordinated closely with the North Dakota Department of Transportation (NDDOT) to tie into the replacement and reconstruction of the Broadway Bridge. The bridge will be replaced in 2017 and 2018 in conjunction with this phase of the MREFPP; engineers are utilizing the bridge embankment structure as a flood protection feature, which will save constructing several hundred feet of floodwalls.

#### **MREFPP Phase 2**

Phase MI-2 (Napa Valley segment) of the project begins at the U.S. Highway 83 Bypass along the west edge of Minot and ends at 16th Street SW across the Mouse River from the Minot Water Treatment Plant, along the north side of the river. The features through this segment of the project are predominantly earthen levees (6,500 LF), with an average height of approximately 14 feet. This phase also includes a road closure structure at 16th Street SW, which will consist of a removable barrier floodwall that is erected during large flood events.

The Napa Valley levee will impact the Souris Valley and Wee Links Golf Courses. Impacts to these courses will be mitigated by modifying the course layout and moving or reconstructing the features that are impacted. The Dakota Bark Park, located on the west end of the project, will also be impacted by the new levee. The impacts will be mitigated to this park by reconfiguring the existing fences and shelter in locations close to the existing park.

Interior storm sewer is a large part of the Napa Valley segment. Nearly 800 acres of land drains though an existing system known as the Perkett Ditch. This drainage which generally gravity flows into the Mouse River has to be pumped during high flow conditions on the river. The existing storm sewer pump station for this drainage ditch will be completely reconstructed. The current 8,000 gpm pump station will be replaced with a 54,000 gpm pump station and a 37 acre-foot off-line detention pond.

Aspects of this project are also being coordinating with the NDDOT as they add additional lanes and reconstruct portions of the U.S. Highway 83 Bypass and Bridge. The flood control features on the western end will need to be carried through the highway embankment.

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A portion of the MREFPP Phase 2 includes improvements to an interior drainage area known as the Perkett Ditch. The picture above shows what the area currently looks like and the drawings show what the area should look like after the project is complete

## **MREFPP Phase 3**

Phase 3, also referred to as the Forest Road phase of the project, includes earthen levee segments on both sides of the river. This section begins at the east end of the Napa Valley segment and runs northeast approximately 2,400 LF to the Canadian Pacific railway embankment. The southern segment will connect to the Minot Water Treatment Plant floodwall east of 16th Street SW and run northeast approximately 1,800 LF and end near the existing Moose Lodge pump station.

The Napa Valley and Forest Road segments are expected to begin construction in 2017 and will likely take two construction seasons to complete. Phases 2 and 3 are being designed by the Barr-Ackerman engineering team, with a combined construction cost estimate of \$49 million.

## **Environmental Impact Statement**

As a result of the initial and future phases of the Mouse River Enhanced Flood Protection Plan, a key and required Environmental Impact Statement (EIS) is currently under way. The EIS is being done by the SRJB/City of Minot and the U.S. Army Corps of Engineers (USACE). The engineering team on the EIS is Barr-Ackerman and Houston Engineering.

The EIS is required in situations where proposed flood protection features will modify areas within the existing federal project right-of-way by changing the existing levees, alignments, altering channel conveyance and the construction of larger levees and floodwalls. The statement will need to demonstrate that the alterations to existing federal flood control is "not injurious to the public interest and will not impair the usefulness of such work." The work will be done according to a variety of both engineering and regulatory requirements, including USACE design standards and design review, and environmental protection compliance in accordance with the National Environmental Policy Act.

Another purpose of the EIS is to identify the range of potential impacts that would result from the construction of the project and ensure that this information is available to public officials and citizens prior to making decisions and taking action.

Work on the EIS started in 2015, and it is anticipated that the draft EIS will be published by the USACE for public review in fall 2016 with a final EIS and Record of Decision being issued in the Winter or Spring of 2017.

Funding for the almost two-year process is being provided by the NDSWC and City of Minot flood sales tax.

# **USACE Feasibility Study**

On May 6, 2016, the SRJB/City of Minot and USACE signed an agreement to have the USACE complete a feasibility study for the Mouse River Valley. This is the first step in determining if and to what extent there may be a federal interest in flood protection for the valley. This long-awaited study was due to the great work of the North Dakota congressional delegation. This study will be done over the next three years and is expected to cost \$3 million.

# Structure, Acquisition, Relocation, or Ring Dike Program

From day one, the Souris River Joint Board has advocated for a basin-wide approach to the Mouse River flood risk reduction. The StARR Program was developed as a potential solution to address the continuous flooding challenges of private landowners throughout the rural areas of the Mouse River Basin. The program contains options for landowners to receive assistance through funding from the N.D. State Water Commission, City of Minot sales tax collections directed at flood protection, and a local cost share, for the purpose of structure acquisition and demolition, structure relocation, or the ring diking of structures. Property owners will be responsible for 5 percent of eligible costs, while the SRJB through the NDSWC and City of Minot funding will pay 95 percent of eligible costs. The program has currently been allocated \$12 million.

The program requirements were adopted by the Souris River Joint Board in January 2016 with implementation of the program starting in June 2016. There are currently about 65 property owners pursuing one of the three program options to help alleviate their flooding challenges. It is anticipated that some of these projects will be fully complete in 2016.

# **Minot Downtown Infrastructure Improvements Project**

The Minot Downtown Infrastructure Improvements Project is a City of Minot effort to improve the basic underground and aboveground infrastructure in the heart of Minot. This will include replacing miles of water, sanitary sewer and storm sewer pipes, concrete paved street, curb and gutters, sidewalks, and street lighting within roughly 26 city blocks in Downtown Minot, over three years of construction.

Much of the water, sewer, sanitary sewer and other below ground infrastructure in Downtown Minot are between 75 and 100 years old. Many of these pipes are too small for anticipated growth and upgrades to downtown, and have simply lived beyond their original design life. These upgrades are sorely needed to keep the heart of the Magic City thriving.

Funding for this project is coming from a variety of sources. The U.S. Economic Development Administration agreed in May 2013 to award \$18 million in disaster recovery grant funding that will be matched by approximately \$8 million in funds from a street light assessment district and storm sewer assessment district, \$4.9 million in Community Development Block Grant-Disaster Recovery (CDBG-DR) funding and \$1.25 million from North Dakota State Water Commission. The estimated project cost is near \$33 million.

The project will improve the city blocks bordered by South Broadway, the BNSF railroad tracks/1st Avenue NE, 3rd Street SE and Burdick Expressway. There will be some storm sewer and water main work done outside of this general project boundary.

The overall Downtown Infrastructure Improvements Project was designed to encompass three construction seasons, with separate construction bids for each season. Engineering design began in late 2013, with Phase I construction taking place from May 2015-November 2015 (with one block finished during 2016). In 2015, the general contractor was Strata Corporation from Grand Forks with a construction cost of \$14.4 million. In 2016, the general contractor is Keller Paving and Landscaping, Inc. from Minot with a construction cost of \$8.8 million.

# Work done under the 2015 contract included the following:

- 32,641 square yards of concrete (668 trucks)
- 9,638 linear feet of curb/gutter (almost 2 miles)
- 53 water service connections
- 66 sanitary sewer connections

# Work done under the 2016 contract is scheduled to include the following:

- 4,900 linear feet of water main
- 2,700 linear feet of sanitary sewer
- 3,000 linear feet of storm water
- 68,500 linear feet of electrical wiring in 11,000 linear feet of conduit
- 103 water service connections

For the latest on this on-going project, go to www.DowntownMinotIsOpen.com.



Image 1: As seen from this bird's eye view, the Downtown Infrastructure Improvements Project in 2015 had to work around buildings as well as under railroad tracks to install essential truck infrastructure Image 2: Finishing work on the first block of Main Street during the 2016 portion of the Downtown Infrastructure Improvements Project started at the end of June with crews pouring and placing concrete to form the new roadway

## **NE Minot Sewer Project**

Rapid growth on the north side of Minot, coupled with the need for low- to moderate-income housing, prompted City of Minot officials to commission the North Minot Sanitary Sewer Study. The study identified system deficiencies and generated alternatives to serve the future north Minot sanitary sewer service areas. As a result, several projects have been or will be completed to serve as the backbone of a new sanitary sewer to serve north Minot. This trunk sewer system will open up the ability to serve more than 10,000+ acres.



One large piece of the new NE Minot Sanitary Sewer System is the new 55th Street NE Lift Station



This map lays out a number of the projects associated with the new NE Minot Sanitary Sewer System

# These projects included the following:

- Almost \$7 million in capacity and control upgrades to master and control lift stations, funded by CDBG-DR monies and a North Dakota Trust Lands grant.
- \$5.6 million toward the 30th Ave/55th Street NE gravity sewer line, where 15,000 feet of 30-inch sewer was placed from May 2014 to October 2015.
- New 55th Street NE gravity and force main lines, made up of 10,500 feet of 24-inch and 30-inch force main and 3,100 feet of 15-inch gravity sewer, at a cost of nearly \$6 million. This project took more than two years to construct and was finished in April 2016.
- A \$7.1 million new lift station at 55th Street NE. With funding from CDBG-DR sources, a N.D. Trust Land grant and bonds, this new regional lift will convey all the sanitary sewer flows from the north Minot sewer system to the city lagoons. This project is still underway.
- The 30th Ave. and Livingston Coulee Lift Stations and force mains, at a cost of \$9.4 million, will convey sewer flows from northwest and northeast Minot to the 55th Street Lift Station. This project started in July 2015 and is still under way.

# **Major Street Projects in Minot**

Not to be outshined by flood protection, and below ground infrastructure, two major road projects in 2016 are happening as a result of growth in Minot. Both projects are substantially funded by North Dakota surge funding, approved by the North Dakota Legislature in 2015.

Almost a one-mile stretch of 37th Avenue SW is being transformed from a rural, two-lane section road to an urbanized five-lane concrete section with a shared-use path on the south side. This portion of southwest Minot is growing with both residential and commercial needs, including a planned Trinity Hospital complex along the corridor. The project includes bringing 37th Avenue above the 100-year flood plain, installing double 7'x7' box culverts along Puppy Dog Coulee, and installing new storm sewer, curb and gutter.

Lower-than-expected bids were accepted by the City in spring 2016, as Wagner Construction, Inc. was awarded the job at a construction cost of \$6.65 million. It is anticipated that the upgraded road will be done by the end of October 2016.

On the opposite side of town in northwest Minot, a road extension project is underway to provide a secondary arterial road to Minot Public School's Erik Ramstad Middle School and eliminate roadway congestion. The 36th Avenue NW Extension Project will take the road from where it stops near 8th Street NW and bring it all the way east to Broadway (U.S. HW 83). As northwest Minot is continuing to grow, the 36th Ave NW extension will promote growth and improve traffic flows around the recently built middle school. The project is more than just a new road; construction includes a 10-foot shared use path on the south side of 36th Avenue, street lighting, a detention pond and lift station, and traffic signals at the intersection of Broadway and 36th Avenue NW.

This project also came in under budget, as Keller Paving and Landscaping, Inc. was low bidder at a cost of \$2.93 million. The end date of the project is projected to be the middle of October 2016.



With the underground work complete and the roadway widened from 2 lanes to 5, 37th Avenue SW is just about ready to receive the concrete that will mark the beginning of the end of this major road project in the Magic City

#### **Conclusion**

And while it may be hard to believe, these aren't the only projects happening in Minot. There is continuous maintenance of existing roads and underground infrastructure, new permits from businesses, work on the outskirts of the City of Minot at the Port of North Dakota, and many other projects. For the latest on what is happening within the City of Minot, go to www.minotnd.org.

# Communicating with the News Media

LeeAnn Tillotson, North Dakota Department of Health

With recent drinking water events across the nation, the news media and the public have turned their attention to drinking water quality. This is understandable, since public drinking water is provided to millions of Americans and consumers want to be sure that the water coming from their faucets is safe. With this increased attention to drinking water, some of you may have been asked for a media interview for the first time. This can be stressful for most people, even for those who do interviews on a more regular basis. The following are a few suggestions for communicating with the news media. Reading through these tips may make you feel more at ease during your next visit with a reporter.

# Be Open and Honest

The number one rule for talking with the media is to be open and honest. Evading a question or giving misinformation will come back to trouble you. If the media are interested in talking with you, it is because their listeners or readers are interested in what you have to say. Being honest with reporters means being honest with the public and your customers. Building trust with the media and your customers is important for any water system. Try to view the interview as an opportunity to build that trust.

# **Provide Information**

One of the worst things you can say to a reporter is 'no comment'. Not commenting on a question makes you and your organization look like you are hiding something, even if you are not. Remember that each interview is an opportunity to connect with your community in a positive way. If you feel something is confidential, you can always talk about the process that surrounds that issue.

Focus on what you can say. Explain why you can't share something. Then talk about what happens next. The average citizen does not understand how their drinking water gets to their faucet, or how it is tested or processed. Explaining these processes instead of saying, 'no comment', can provide useful information and will help them understand and have confidence in your commitment to provide safe water.

## Deliver Your Message

If possible, take some time to prepare before the interview. You will feel more confident and the interview will go more smoothly. In particular, prepare a specific message you want to convey during the interview. Keep it simple and brief. Short answers are better than long ones. Repeat your message often during your interview to ensure that it is understood by the reporter and included in the article or news clip. Reporters are not always very familiar with the topic they are asking about, so they may need direction from you. If you are thinking of a prepared message, you can more easily redirect the discussion to information you feel is important for the public to hear.

Most reporters will end an interview asking if they missed anything or if there is anything you would like to add. Be prepared for that question. Use it to repeat the main point of your message, or restate something to make sure the reporter understands what you are saying. If you know your message before the interview, you will be able to deliver it more easily.

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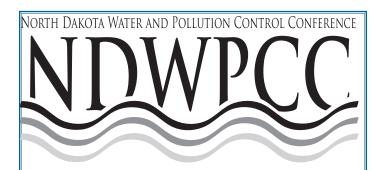
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It is not always easy to admit that we don't know something. We don't want to look like we are uninformed, but when talking with the media, if you don't know the answer, say so. It is better to offer to find the information and call the reporter back than to speculate or guess and provide information that may not be accurate. Of course, if you say you will follow up with the reporter, be sure to do so as soon as you have the requested information. Interviews are an important opportunity to build relationships with the media and your customers. Being honest about what you do and don't know and following up with answers, is a good way to develop their confidence and trust in you.

# You Can't Control the Story

It is natural to worry after an interview about whether we said the right thing, or made ourselves and our organization look good. It is important to remember that you cannot control the outcome of the story. In the end, the reporter will choose what information to include and the final slant of the report. Therefore, during the interview it's important to focus on the things that you can control such as making sure that you provide honest, accurate information that reflects your message. This information will help the reporter and the public understand the situation at hand. Building trust with the media and your customers is important. When the next reporter calls, try to present information using the tips listed here; and, keep in mind that every media contact is just another opportunity for establishing a positive connection with your customers and the media.





# **Upcoming Conference Dates:**

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

**2018--Grand Forks** October 16, 17, and 18 Alerus Center

**2019--Bismarck** October 8, 9, and 10 Ramkota Hotel

# NDWPCC JOINT BOARD MEETING MINUTES May 17, 2016 Bismarck, ND

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 17, 2016, in the Heart Room of the Ramkota Hotel, Bismarck, ND. The following board members and guests were in attendance: Chuck Abel, Mike Brisben, Jacqueline DeMent, Tracy Eslinger, Joe Ferguson, Bill Gefroh, Fred Goetz, Dallas Grossman, Terry Halstengard, Marty Haroldson, Shawn Heinle, Jeff Heintz, Jeff Hruby, Barry Johnson, Wei Lin, Seth Lynne, Lance Meyer, Dayna Morton, Karla Olson, Tim Paustian, Mark Peterson, Meredith Quinn, Karl Rockeman, Jake Schafer, Luci Snowden, Gregg Stewart, Matthew Stone, Don Wald, Greg Wavra, Adam Zach and Gary Zuroff.

The meeting was called to order at 10:32 a.m. by NDWPCC President Seth Lynne. Copies of the meeting agenda and January 1 through April 30, 2016, financial report were provided to those in attendance.

The first order of business President Lynne called for a motion to dispense with the reading of the minutes and approve the copy sent to all board members. Joe Ferguson so moved, Matt Sperry seconded, and the motion carried.

Next, President Lynne called for the Treasurer's Report. Mike Brisben read the 2016 NDWPCC financial report which showed a net loss of \$59,051.92 and total assets of \$61,346.13. Mr. Brisben noted that deposits totaling \$68,908.00 were made in May 2016 bringing NDWPCC total equity to \$130,254.13 resulting in a net gain of \$9,881.08. President Lynne asked for any further discussion. Hearing none, President Lynne called for a motion to approve the Treasurer's Report. Lance Meyer so moved, Wei Lin seconded, and the motion carried.

Next President Lynne asked that topics and presenters lists be provided to Mr. Brisben by June 1, 2016. Tracy Eslinger noted that he had been asked if more topics geared towards operators rather than engineers could be added. Bill Gefroh indicated that input from the operators on what is needed would be helpful.

Meredith Quinn inquired if there was ever a shortage of speakers. Mr Brisben noted that there were usually a few extra topics available if someone had to cancel. Ms. Quinn indicated NDAWWA was checking on a hydrant O&M presentation as part of their track. Mr. Brisben indicated that if more operator related topics were available he would try to include them. Further discussion included providing a list of topics polling the attendees during the panel discussions and posting the lists at the joint board booths during the exhibitor program. President Lynne noted that it was up to the joint boards to be creative when selecting topics. President Lynne called for any other old business.

Hearing none, President Lynne called for a report on 2016 local arrangements. Mr. Brisben noted that meetings with the local arrangements committee and the convention center were held May 4, 2016. Mr. Brisben indicated that once again there would not be a spouse/guest event and that the City of Minot would be providing transportation for the facility tours. Mr. Brisben also noted that a one day pre-conference workshop had been offered. Greg Wavra indicated that the training would be on "Utility Workforce Recruitment and Retention."

Moving on, President Lynne asked for a report of the 2016 Operator Training Program. Mr. Brisben reported that once again there were six sessions with 339 attending and 217 exams written. Mr. Brisben also noted that the exhibitor and sponsor announcement, along with speaker invites, would go out the first week of June.

Next, President Lynne asked for an update on conference entertainment. Lance Meyer addressed the joint boards and recommended a move to Tuesday night rather than during the awards banquet on Wednesday. Mr. Meyer noted that a Tuesday night venue would help keep attendees at the conference location. Mr. Meyer indicated that the entertainment would be a two hour show after the buffet called "Dueling Pianos" costing \$6,500.00. Mr. Meyer noted that local arrangements was working with Minot CVB to offset some of the costs and that other funding options were being considered.

The consensus was that the recommendation was a great idea that offered a good change of pace. Dale Heglund recommended raising exhibitor fees to provide funding. Tracy Eslinger moved that booth fees be raised accordingly, Tim Paustian seconded. Mr. Meyer asked when the vendors would know there was an increase. Mr. Brisben indicated it would need to be included in the June mailing. Bill Gefroh suggested the fee should be a set amount with Ms. Quinn agreeing. President Lynne asked Mr. Eslinger if he would care to amend his motion. President Lynne called for a show of hands and the motion failed. Meredith Quinn motioned that the exhibitor fee be raised to \$200.00, Gary Zuroff seconded, and the motion carried. Further discussion followed recommending a maximum for entertainment. Tim Paustian suggested the NDWPCC board consider each event separately.

President Lynne called for any other new business. Hearing none, President Lynne called for a motion to close the meeting. Karla Olson so moved, Karl Rockeman seconded, and the motion carried.

The meeting adjourned at 11:16 a.m. The NDAWWA can be thanked for the refreshments and noon luncheon.

Respectfully submitted,

Mike Brisben Secretary/Treasurer

MB:kh

# **Deuces Wild Dueling Pianos to Entertain NDWPCC!**

The duo Deuces Wild will provide entertainment for the NDWPCC on Tuesday, October 11th, 2016 from 7:00pm - 9:00pm in the Exhibition/Rhodes Room. Here's a little about the duo:

## Dave:

Son of a miner from the northern woods of Minnesota, David Charles Eichholz is a versatile, self taught musician who plays the piano, guitar, saxophone, harmonica, trumpet and countless other instruments. David was also part of the "Pringles" Award winning band "City Pretty" as well as the band "Rave On!". He was featured internationally on the Swedish television show 'Christine'. He was then recruited by Little Ditty's, Dueling Piano Bar at the Mall of America in Minnesota where he performed four nights each week for five years. David also recorded and produced the sound track to the "Prime Target" video game (50,000+ copies sold). He was also featured in an issue of World Traveler Magazine, the in-flight publication of Northwest Airlines.

## Ted:

Ted got his start in Deuces Wild by walking out of his day-job and demanding an audition. Although he hadn't previously played in a dueling piano style show, his amazing showmanship and obvious ability to perform as a world class entertainer blew away the competition! Since then he has played thousands of dueling piano shows with performances all over the country!

When not on the road with DWDP, Ted spends his time as a producer of sold out shows, including the Billy Joel and Elton John tribute show "Eye 2 Eye," and the ever popular annual "Rock n Roll Xmas Spectacular," which he co-produces with former Jonny Lang guitarist Paul Diethelm.

Ted also spends time in the studio as jingle writer, recording artist, and producer of both his first CD "Gather Us In," and his Rock and Roll Xmas CD, "Trim My Tree." and "RRXS - Live at The Paramount" CD. He's been an actor and a game show host! Whether it be in front of thousands of people opening for HBO's Dennis Miller, or selling out theaters with Deuces Wild nationwide...Ted has consistently proven that he truly is a showman's showman and musician's musician!



# DEUCES WILD DUELING PIANOS

Drinking Water P	rogram Directory	
Program Administrator	Greg Wavra	701-328-5257
Acrylamide and Epichlorohydrin Rule	Gary Stefanovsky	701-328-5287
Arsenic Rule	Amy Kinzler	701-328-5258
Consumer Confidence Reports	LeeAnn Tillotson	701-328-5293
Disinfectant/Disinfection Byproducts Rule (TTHM, HAA5) Stage 1 and Stage 2 Rule	Lydia Fewless	701-328-5221
Electronic Reporting Information System (ERIS)	Barrett Brown	701-328-5209
Filter and Backwash Recycle Rule	Gary Stefanovsky	701-328-5287
Fluoride Addition	Amy Kinzler	701-328-5258
Groundwater Rule	Gary Stefanovsky	701-328-5287
Inspections: Northeast	Gregg Stewart	701-328-6621
Inspections: Northwest	Ivana Striebel	701-328-6624
Inspections: Southeast	Jacob Schafer	701-328-6375
Inspections: Southwest	Shawn Heinle	701-328-6627
Inspections: South Central	Bob Markhouse	701-328-6623
Lead and Copper Rule	Tammy Lamphear	701-328-5295
Surface Water Treatment Rule: Interim Enhanced, Long Term 1 Enhanced, Long Term 2 Enhanced	Mike Trythall	701-328-5269
Microscopic Particulate Analysis (MPA)	Gary Stefanovsky	701-328-5287
Nitrate/Nitrite Program	Lydia Fewless	701-328-5221
Operator Certification	Craig Bartholomay	701-328-6626
Operator Expense Reimbursement/Public Notice Rule	LeeAnn Tillotson	701-328-5293
Operator Training	Mike Brisben	701-328-6622
Pesticides (SOCs)	Lydia Fewless	701-328-5221
Primary and Secondary Inorganics	Lydia Fewless	701-328-5221
Public Water System Updates (changes to source, treatment, contact, etc.)	Tammy Lamphear	701-328-5295
Radionuclide Rule: Gross Alpha, Total Radium, Uranium	Lydia Fewless	701-328-5221
Total Coliform Rule	Jeni Walsh Josh Seerup	701-328-5231 701-328-5257
Unregulated Contaminant Monitoring	LeeAnn Tillotson	701-328-5293
Volatile Organic Chemicals (VOCs)	Lydia Fewless	701-328-5221
Central Phone: 701-328-5211		Fax: 701-328-5200

North Dakota Pollutant Discharge Elimination System Program Directory			
Program Administrator	Marty Haroldson	701-328-5234	
Animal Feeding Operations	Brady Espe Rachel Strommen Jeremy Lang	701-328-5228 701-328-5244 701-328-5219	
Biosolids	Sarah Waldron	701-328-5237	
Construction Stormwater	Dallas Grossman Patty Omlid Duane Sandvick Dan Webber	701-382-5242 701-328-5239 701-328-5260 701-328-5285	
Dewatering and Hydrostatic Testing	Sarah Waldron	701-328-5237	
Discharge Monitoring Reports (DMRs)	All Staff	701-328-5210	
DMR Quality Assurance (QA) Study	Marty Haroldson	701-328-5234	
Industrial Pretreatment	Jeff Roerick	701-328-5240	
Industrial Stormwater	Dallas Grossman Patrick Schuett	701-328-5242 701-328-5235	
Inspections	All Staff	701-328-5210	
Lagoon Overflows/Releases/Spills	All Staff	701-328-5210	
MS4 Stormwater	Dallas Grossman Patty Omlid Duane Sandvick Danial Webber	701-328-5242 701-328-5239 701-328-5260 701-328-5285	
Public Notices/NDPDES Permits	Patrick Schuett	701-328-5235	
Septic Pumper	Sarah Waldron Sarah Starr	701-328-5237 701-328-5215	
Wastewater Discharge Approvals	All Staff	701-328-5210	
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