

the surge potential of the finished water pumping system, as there is an elevation difference approaching 550-ft between the new treatment site and overflow of the nearest existing elevated storage tank.

The precast, prestressed concrete ground storage tank was located on a hillside approximately 250-feet above the Freedom Crossing WTP site. This tank, which was built by Natgun, supplies customers along the US 52 corridor (including the new WTP) and serves as a wet well for the booster pump station transferring up to 3-mgd to elevated storage tanks in the existing TMWA distribution system. The new tank's two compartments allow for continuous use of the facility during maintenance and cleaning tasks. The new pump station, which was built by EFI, consists of two vertical turbine pumps in a prefabricated, above-grade structure built to match the tank.

Project Construction and Commissioning

Three contractors worked concurrently on the collector well (Reynolds), water treatment plant (Dugan & Meyers), and intermediate storage facility (Sunesis). Also working on all three facilities, along with upgrading the control system at the existing Idlett Hill WTP, Rawdon Myers installed a radio based SCADA system and control system tying the main control panel with

those furnished by equipment manufacturers. Upgrading the Idlett Hill WTP and distribution system controls first allowed TWMA operators to become familiar with the new system hardware and software, and insured compatibility between the existing and new components of the treatment and distribution systems.

The bid total of the three projects was approximately \$16,300,000. Each of the three projects was funded through USDA Rural Development, with TMWA paying for B&N's construction administration and on-site observation directly. Collectively, the collector well (\$3.3M bid), water treatment plant (\$10.6M bid), and intermediate storage facility (\$2.4M bid) were constructed for about \$50,000 below the bid sum total, so the financial aspect of the project finished successfully with a deductive change order.

Construction for the three components started in March 2007, and concluded with substantial completion of the WTP in December 2008. The new treatment plant was renamed from its US 52 WTP working title to Freedom Crossing Membrane Treatment Facility. And the entrance sign along US 52 marking the WTP access road and owner's name also includes TMWA's philosophy in planning and building this project, "Ensuring the safety and quality of one of life's most precious resources."



Freedom Crossing WTP Sign. The entrance to TMWA's Freedom Crossing WTP.

Acknowledgments

Over the eight year period this project was planned, piloted, designed, and constructed, Greg Stanley assisted from the owner's end, initially as the plant manager of the Idlett Hill WTP and

currently, as TMWA's General Manager. From the B&N side, Jeff Eilers, Ken Timko, Chris Everett, and Brian Tornes participated in lead roles throughout the project.



Fluoridation Reimbursement Programs, Training and Awards

Ohio Fluoridation Reimbursement Program

The Ohio Department of Health's (ODH) Fluoridation Reimbursement Program provides financial and technical assistance to communities of any size, enabling them to fluoridate their water systems to the optimum level necessary to prevent dental decay. Funds are available for fluoride feed system or testing equipment. For more information, view the program fact sheet and application at www.odh.ohio.gov/odhPrograms/ohs/oral/oralprev/reimbprg.aspx or contact Colleen Wulf in the Bureau of Oral Health Services at colleen.wulf@odh.ohio.gov or (614) 466-4180.

Water Fluoridation Training

The Centers for Disease Control (CDC) offers water fluoridation engineering and operations training to assist with the management of state fluoridation programs and water treatment operations. Courses are open to state program officials, water utility system staff, water facility operator trainers or support personnel and registered engineers. A description of the courses can be found on the CDC, Division of Oral Health's site at www.cdc.gov/fluoridation/engineering/training.htm.

Awards

The Association of State and Territorial Dental Directors (ASTDD), the American Dental Association (ADA), and the Centers for Disease Control and Prevention (CDC) through their Fluoridation Awards Committee annually recognizes water systems for taking various steps toward improving oral health nationwide. The committee has developed the "Community Initiative Award" for water systems throughout the country that adopt water fluoridation. The Northern Area Water Authority of Tipp City received this award in September of 2009 for implementing fluoridation at the new plant that serves Vandalia and Tipp City. Prior to November 2007, citizens of Tipp City were not served with optimally fluoridated water and Vandalia was served with fluoridated water purchased from Dayton, Ohio. ODH provided financial assistance for the installation of fluoridation equipment.

The committee also recognizes public water systems that have continuously fluoridated their water for fifty years. In 2003, Westerville and Avon Lake were the first Ohio communities to receive their "Fifty Year Award." Since then, 17 more Ohio communities have received the award.

The committee also presents the "State Fluoridation Quality Award" to communities that maintain fluoridation quality throughout the year with optimal fluoride level monitoring and maintenance. In 2008, the committee recognized 74 community public water systems.

More Information

For more information, please visit the Division of Drinking and Ground Waters public water systems site at www.epa.ohio.gov/ddagw/pws.aspx.

Water Well Standards – New Well Siting Criteria

For public water systems that want to install a well, new well siting setbacks will be effective as of Jan. 1, 2010. The new requirements can be found in Ohio Administrative Code (OAC) rule 3745-9-04 paragraphs (A)(8), (A)(11) and (A)(12). This rule was revised to require that new public water supply wells be sited specified distances from certain types of waste management areas, including landfills and treatment storage facilities for human and animal wastes. The new requirements do not apply to existing wells or for currently proposed wells, provided Ohio EPA approves the new well plan before Jan. 1, 2010.

Fixed Setback Distances

OAC 3745-9-04(A)(8) identifies the following fixed, setback distances from contaminant sources for public water system wells:

- at least 50 feet from streams and lakes and must not be located in a floodway without prior acceptance of the director;
- at least 100 feet from a land application area field if the waste is injected but in no case within the sanitary isolation radius of the well;
- at least 300 feet from the following: a human or animal waste management facility; a land application area, stockpile, storage or staging area; a land application area field if the waste is surface applied but in no case within the sanitary isolation radius of the well; a soil absorption system handling more than 10,000 gallons per day;
- at least 500 feet from a construction and demolition debris facility; and
- at least 1,000 feet from a landfill or monofill.

Prohibitions Related to Drinking Water Source Protection Areas

Paragraphs (A)(11) and (A)(12) of OAC rule 3745-9-04 include the following setbacks to help ensure protection of drinking water supply well locations from contamination caused by inadvertent releases during management or disposal of human and animal waste.

A public water system well used by a community or non-transient, non-community water system must be located such that the following are not located within the proposed well's inner management zone (1 year time-of-travel):

- a human or animal waste management facility, unless the well is used by the human or animal waste management facility;
- a soil absorption system handling more than 10,000 gallons per day in an area where Ohio EPA has determined the aquifer has a high susceptibility to contamination; and
- a land application stockpile, storage or staging area where Ohio EPA has determined the aquifer has a high susceptibility to contamination.

A public water system well must be sited such that no landfill or monofill is located within the proposed well's drinking water source protection area (5 year time-of-travel).

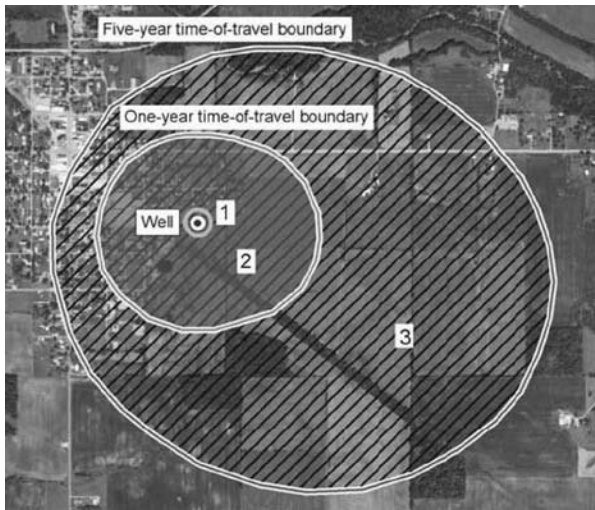
Well Siting Information

For more information including required distance from wells to potential contaminant sources, owner responsibilities and variances or exemptions, please read the final rule at www.epa.ohio.gov/portals/28/documents/rules/Final/3745-9-04_effective_9-1-09.pdf or call your local district office representative.



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New Rule Requires Drinking Water Source Protection Plans



The drinking water source protection area is the surface and subsurface area that will provide water to a well within five years.

“1” next to circle around the well indicates the extent of the sanitary radius for this well.

“2” is the area within the one-year time-of-travel boundary and is called the inner management zone. This zone is the surface and subsurface area that will provide water to a well within one year.

“3” is the area within the five-year time-of-travel boundary and is called the outer management zone. This zone is the surface and subsurface area that will provide water to a well within one to five years.

Effective Sept. 1, 2009, rule 3745-91-10 of the Ohio Administrative Code (OAC) requires community public water systems that serve a political subdivision (such as a city or county) and a minimum of 250 people to develop or update a drinking water source protection plan when a new well is installed. Public water systems that meet both of the following conditions are exempt from these requirements:

- (1) The system already has a protection plan endorsed by Ohio EPA during the previous five years.
- (2) Any increased pumping or the location of the well(s) will not change the boundaries of the previously endorsed inner management zone or drinking water source protection area (see source water protection image for definitions).

Boundary Change

Ohio EPA uses the following guidelines to predict a change in the protection area boundaries:

- If average daily pumping increases more than 15 percent over the original value used to delineate the boundaries of the protection area.
- If a new well is located more than 500 feet away from an existing well.

If either situation exists, the supplier should request their consultant or Ohio EPA’s district representative redelineate the protection area.

The original plan may need to be revised to include protective strategies for any additional contaminant sources identified.

Deadlines

The protection plan must be submitted within two years of the date listed on the new well plan approval letter. Send the plan to your Ohio EPA source water protection program district office representative.

Required Protection Plan Elements

OAC rule 3745-91-10 requires that each plan include:

- education and outreach;
- potential contaminant source control strategies;
- an early warning ground water monitoring program; and/or
- steps to address drinking water shortage and emergency response in the event of a spill or accident that could contaminate the drinking water source.

The plan must contain an implementation schedule for the identified actions and be updated at least every 10 years.

More Information

For more information, visit Ohio EPA's source water protection program web site at www.epa.ohio.gov/ddagw/swap.aspx. A protection plan creation guidance document is available online at www.epa.ohio.gov/portals/28/documents/swap/swap_psdoc.pdf.

Workshops

Ohio EPA provides one-on-one plan development assistance and can organize five-session workshops for groups of public water systems interested in developing a protection plan. On completion of an endorsable protection plan, public water system operators can earn up to five continuing education contact hours by attending these workshops. Phone numbers for your district office representative can be found at www.epa.ohio.gov/ddagw/pws.aspx.

Recordkeeping Refresher

One of several new operator certification rules that became effective On Dec. 21, 2006 was Ohio Administrative Code Rule 3745-7-09, "Recordkeeping requirements and responsibilities of a certified operator".

This rule requires owners and operators of record to maintain (or cause to be maintained) operation and maintenance records. The records may be maintained in varying formats including hard-bound books with consecutive page numbering, time cards, separate operation and maintenance records or well-organized computer logs. The records must be maintained in a manner to guarantee authenticity and accuracy. Due to this requirement, loose-leaf notebooks, three-ring binders and computer files that are not password protected and time documented are not accepted. For small systems, one of the easiest methods to ensure compliance would be to use a bound and numbered log book.

At a minimum, the records must contain:

- identification of the public water system;
- the arrival and departure date and times for the operator of record and any other required operator (for example, backup operators, operators necessary for reduced minimum staffing requirements);

- specific operation and maintenance activities that affect or have the potential to affect the quality or quantity of water conveyed or produced;
- results of tests performed and samples taken, unless documented on a laboratory sheet;
- performance of preventative maintenance, repairs, or requests for repair of the equipment; and
- identification of the person(s) entering the records (for example, signatures, initials, certification numbers).

The records should be accessible on site for 24-hour inspection by Ohio EPA or emergency response personnel. The records must be kept up-to-date, contain a minimum of the previous three months of data and be maintained for at least three years.

Maintenance of detailed records will also:

- demonstrate to Ohio EPA and the public compliance with the Safe Drinking Water Act;
- document operations for use in process control changes and troubleshooting;
- assist in providing data necessary for facility modification, upgrade or expansion; and
- protect operators by documenting steps taken to maintain system compliance.



Electronic Drinking Water Reports (eDWR)

The Division of Drinking and Ground Waters' eDWR application is now available. To start using eDWR to submit drinking water monthly operating reports (MORs) and sample submission reports (SSRs) you will need:

1. An eBusiness Center account. Everyone who enters or submits data at your system or lab must have their own account. New accounts can be created by selecting the "Create New Account" link found on the eBusiness Center's login page. If you already have an eBusiness Center account you do not need to create another one.
2. A pin to report and submit data. Responsible officials and anyone delegated to submit MORs and SSRs must have a PIN. If you already have an e-Business Center PIN you do not need to create a new one. When you first log in to your eBusiness Center account click on the link to the PIN application under "My Tasks." Complete the PIN application online, print and have it notarized and mail it to Ohio EPA.

3. An association to your water system or laboratory in order to access your water system or laboratory's information. Ohio EPA will only authorize an Operator of Record or responsible official for an association. All other users are delegated association by the Operator of Record and thus do not need to request association. Complete the service authorization process form online, print and sign it then send it to Ohio EPA with a letter indicating your authority at the water system or laboratory.

Once these steps are complete, you may begin using the eDWR reporting system. Related documents and sample forms can be found at www.epa.ohio.gov/ddagw/reporting.aspx. For notifications about upcoming training opportunities, please send your contact information to Brian.Tarver@epa.state.oh.us.

Economic Stimulus Funding Update

To help public services meet infrastructure needs and stimulate the economy, the American Recovery Reinvestment Act (ARRA) became law on Feb. 17, 2009.

Nationally, \$2 billion was authorized to improve drinking water infrastructure. Ohio received just over \$58 million. Twenty percent of Ohio's ARRA money had to be allocated to "green projects." All of the money must be allocated by Feb. 16, 2010.

From the original project priority list of more than 400 communities requesting more than \$2 billion of funding, Ohio EPA had to determine which projects would rank the highest in overall need and meet the provisions of the ARRA law.

Each of the 1,600 proposed projects were evaluated based on a point system identifying needs such as human health risk; compliance with federal and state Safe Drinking Water Act requirements; economic affordability; effective management; population of the area served; and regionalization/consolidation. Of the original projects, 65 made it to the final projects list.

Currently, more than 40 projects have been completely funded, partially using ARRA funds and partially with loans from the Drinking Water Assistance Fund.

For more information on ARRA and/or financial assistance, please visit www.epa.ohio.gov/ddagw/dwaf_economic_stimulus.aspx.

Announcements

Tyler Converse Canton Water Supt



Tyler Converse was named Superintendent of the City of Canton Water Department (CWD) on May 23, 2009, following the retirement of J. D. Williams. Tyler has 20 years of industry experience, having begun his career at CWD in 1989. While with Canton, he moved through the ranks of Bacteriologist, Water Quality Control Chemist, Chief Chemist and Assistant Superintendent.

As Superintendent, Tyler is responsible for the department's three water treatment plants, distribution system, and the City's utility billing department.

Tyler graduated with honors from the University of Akron with a Bachelor of Science degree, and from Walsh University with a Master of Business Administration degree. Through affective leadership and by applying the industry's current best business practices, he hopes to guide the Canton Water Department into a position of leadership within the drinking water community.

Tyler has been an active member of Ohio AWWA since 1996.

Jim McGrew Retires from City of Orrville



Jim McGrew retired from the City of Orrville on September 30th after 40 years of faithful service. Jim began his career at the Power Plant in maintenance while in high school during a flood in 1969. He later worked in the water treatment at the power plant. In 1974, he transferred to the Water Treatment Plant and during a labor dispute was appointed Water Superintendent where he served for the last 26 years. For the past 4 years, Jim also served as a member of the ERTAC committee of NEFCO.

Jim is a very familiar face at the Northern Ohio Expo where he has been a volunteer for the past 20 years. He helped Joe Usher for several years before taking over the lead about 15 years ago. Under Jim's leadership, the event has nearly doubled in size and attendance! The Expo is truly one of the showcases of the AWWA.

Jim has been coaching football for Orrville High School for 25 years. He coaches the centers and kickers and is manager of the equipment. Jim has served the Northeast District over the years working his way up through the chairs. We wish Jim and Doris good luck in his retirement!



2010 AWWA Committee Chairs

Awards and Recognition

Steve Heimlich
Ottawa County Regional Water
419-734-7312
SHeimlich@co.ottawa.oh.us

By-Laws Review and Update

Brian Bisson
Aqua Ohio
330-397-0788
btbisson@aquamerica.com

Conference Management

Tony Kohler
City of Columbus
614-645-6493
awkohler@columbus.gov

MAC Exhibits 2010

Dan McVay
Natgun
614-777-9886
dmcvay@natgun.com

Customer Service

Michele Muncie
City of Columbus
614-645-7138
mhmuncie@columbus.gov

Distribution

Dan Barr
Burgess & Niple, Inc
614-459-2050
dbarr@burnip.com

Diversity

Kathleen Stephens-Bryant
Greater Cincinnati Water Works
513-591-7934
Kathleen.stephens-bryant@gcww.cincinnati.oh.us

Education

Steve Heimlich
Ottawa County Regional Water
419-734-7312
SHeimlich@co.ottawa.oh.us

Finance and Audit

Kurt Smith
ARCADIS
419-473-1121
kurt.smith@arcadis-us.com

Fuller Award

Jim French
Ranney Collector Wells
614-888-6263
jafrench@collectorwellint.com

Information Technology

Rose Haverkos
City of Hamilton
513-785-7292
rosehaverkos@zande.com

Kenneth J. Miller

Debbie Metz
Greater Cincinnati Water Works
513-624-5658
Debbie.Metz@gccw.cincinnati.oh.gov

Membership

Cliff Shrive
Stantec Consulting Services Inc.
513-842-8200
Cliff.Shrive@stantec.com

Newsletter

Larry Valentine
Aqua Ohio, Inc.
330-328-2137
lvalentine@neo.rr.com

Nominating

Bob Davis
Warren Water Department
330-841-2710
bdavis@warren.org

Operator Meritorious Service (Treatment)

David Weihrauch
City of Oxford
513-523-1753
dweihrauch@cityofoxford.org

Operator Meritorious Service (Distribution)

Richard Lykins
OTCO Facilitator
937-206-8755
RMML13@woh.rr.com

Public Outreach

Tim Ray
City of Troy Water Plant
937-339-4826
tim.ray@troyohio.gov

Research

Matt Steele
City of Columbus Div of Water
614-645-7691
mksteele@columbus.gov

Richard F. Melick Award

Ralph Mohr
retired
440-373-8615
ralph44@sudden.net

Sadzewicz Award

Mike Baker
Chief OEPA
614-644-2752
mike.baker@epa.state.oh.us

Safety

Michele Humphrey
City of Columbus Div of Water
614-645-7691
mrhumphrey@columbus.gov

Scholarship

Dave Merleno
City of Ravenna
330-297-2168
dmerleno@ci.ravenna.oh.us

Section History - Co-chair

Doug Brookhart
Jones & Henry Engineers, Ltd.
419-473-9611
dbrookhart@jheng.com

Section History - Co-chair

Al Wansing
Champion City Consulting LLC
937-390-0955
AWansing@aol.com

Small Systems

TBD

Strategic Plan

Melinda Raimann
Cleveland Division of Water
216-664-2444 ext 5638
melinda_raimann@clevelandwater.com

Tapping Contest

Mike Gradoville
A Y McDonald Mfg Co
513-521-1152
mgradoville@aymcdonald.com

Technical Program

Dr. Tim Wolfe
MWH
740-438-4171
timothy.a.wolfe@mwhglobal.com

Technology

Richard Pohlman
Greater Cincinnati Water Works
513-624-5623
Richard.Pohlman@gcww.cincinnati-oh.gov

Top-Ops

Kevin Gleich
Columbus Division of Water
614-645-6559
kegleich@columbus.gov

Water for People

Debbie Metz
Greater Cincinnati Water Works
513-624-5658
Debbie.Metz@gccw.cincinnati.oh.gov

Young Professionals

Robin Liss
MWH
614-324-2224
Robin.A.Liss@mwhglobal.com

Council Chairs

Manufacturers/Associates Council Chair

Ted Simmons
 MSC Waterworks
 513-942-2888
 TSimmons@mscwaterworks.com

Water Utility Council

Dave Weihrauch
 City of Oxford
 513-523-1753
 dweihrauch@cityofoxford.org

Participating Organizations

Ohio Rural Water

Kevin Strang
 Executive Director
 55 Whites Rd.
 Zanesville, OH 43701
 800-589-7985
 ksorwa@aol.com

OTCO

Curtis L. Truss Jr.
 3972 Indianola Ave.
 Columbus, OH 43214
 614-268-6826
 614-268-3244 fax
 curtis@ohiowater.org

OWEA

870 High Street, Suite 15
 Worthington, Ohio 43085
 614-888-8168
 614-888-8165 fax
 info@ohiowea.org

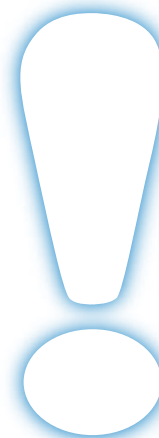
Ohio WARN

Robin Halperin
 City of Cleveland Div of Water
 216-664-2444 ext 5634
 robin_halperin@clevelandwater.com

Volunteers Make a Difference We Cannot do it Without you!

The active participation of the Ohio Section members has been a key ingredient in our organization's success. Each member can make a significant contribution.

Committees and corresponding chairs are listed above. Please call the chair listed, or list the area you are willing to contribute your time, skills, and experience to benefit the entire membership.



Interested in getting involved?

Name _____

Phone _____

Title _____

Employer _____

Address _____

City, State, Zip _____

Area of Interest _____

Please send the Willingness to Serve form to:

Keshia Johnson
Cleveland Division of Water
1201 Lakeside Avenue
Cleveland, OH 44114

216-664-2444
216-664-3330 fax



Distribution Committee Report

by: Dan Barr, Chair

The 20-member Distribution Committee has been active in 2009 with seven meetings, a tour of a new ground storage tank, and the Distribution Seminar.

On May 21, eight committee members toured a partially-constructed 0.5-MG ground storage tank in Baltimore, Ohio. Many thanks to Dan McVay of Natgun Corporation for hosting the tour.

The Distribution Seminar was held on July 7 in Columbus, Ohio with over 90 participants. It included eight presentations, an outdoor demonstration of trailer-mounted valve-exercising equipment, and a panel discussion on utility locating and damage prevention.

The Committee has created a library for all AWWA members. It currently has 24 DVDs, computer software, standards, and manuals. A catalog is available on the website listed below. Materials will be shipped free of charge with only a cost for return postage.

Early next year, the Committee will survey utilities on how they are handling tapping fees and taps in their systems. The survey will be sent to all AWWA members and potentially many operators across Ohio. If you would like to participate, please contact one of the officers listed below.

The next committee meeting is scheduled for January 21 at 10:00 a.m. in Columbus, Ohio. Several conference calls and meetings will follow. See our website for dates and locations.

For information regarding membership, please contact Jennifer Webster.

Website: <http://www.ohiowater.org/OAWWA/Committees/Distribution/default.htm>

Officers:

Dan Barr, PE

Chair

(614) 459-2050

dbarr@burnip.com

Jennifer Webster, PE

Vice-Chair

(513) 677-6859

JWebster@PIRNIE.com

Keith Nutter

Secretary

(440) 255-3984 x212

KENutter@aquaaamerica.com

Gregg Loesch, PE

Past Chair

(330) 375-2690 x6409

loescgr@ci.akron.oh.us

