

Lori Blair

From: Lori Blair <lori.blair@mrwa.com>
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To: Lori Blair
Subject: Small Systems Bulletin from Minnesota Rural Water Association

SMALL SYSTEMS BULLETIN

MINNESOTA RURAL WATER ASSOCIATION

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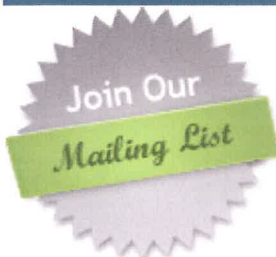
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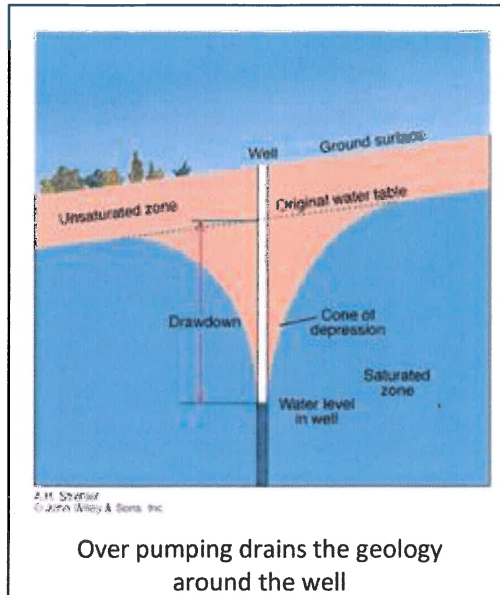


Dear Lori,

Welcome to this edition of the *Small Systems Bulletin*. The purpose of this bulletin is to keep you informed on issues concerning your water system. We plan to issue this bulletin quarterly. Topics covered in the bulletin include: operation and maintenance, treatment, backflow/cross-connections, regulations, operator training, management, and many others. Dates and locations of future workshops are included.



If you have suggestions about topics that you would find helpful give us a call at 1-800-367-6792 or send us an email at kyle.kedrowski@mrwa.com or jennifer.koenig@mrwa.com. Maybe you had a unique experience at your water system that you would like to write about and submit for the bulletin. We're always looking for volunteer writers! We hope this bulletin will be of assistance to you in operating your water system. ***Watch for this quarterly newsletter and we'll see you at a future small system training workshop!***



Over pumping drains the geology around the well

Operating Considerations for Wells and Implications to Well Yield

by Robert Jewell, guest editor

Whether you operate or own a relatively small private potable water well, a large public water supply well, or a private well for industrial use... any ground water well, how you operate it can affect the quality and

sustainability of the water received. How you operate your system or well(s) can potentially cause damage to occur to the aquifer or wells without you even realizing it.

The rate at which water flows into your well is determined by the geology of the ground in which the well is constructed, the specifics regarding the construction of your well and the way that you operate it. How you operate a well can determine the quality and constituents of the water as well as the capacity and length of service the well will provide.

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The QUIZ SPOT

1. Which of the following terms refers to excessive internal pressure, which may be several times the normal operating pressure and can seriously damage hydropneumatic tanks, valves, and the piping network:

- a. Air charge
- b. Flow rate pressure
- c. Water hammer
- d. Hydraulic charge

2. Polyphosphates should be fed at which point:

- a. After the addition of chlorine.
- b. Before the addition of chlorine.
- c. Not at all if chlorine is fed.
- d. After aeration.

3. How many pipe diameters should a meter be located in relationship to elbows or fittings?

- a. Three pipe diameters upstream, five pipe diameters downstream.
- b. Three pipe diameters upstream.
- c. No meter rule is used.
- d. Five pipe diameters upstream, three pipe diameters downstream.

4. Chemicals added to a groundwater supply should be added:

- a. After the check valve.
- b. Before the screen.
- c. After elevated storage.
- d. Near the meter.

answers: 1-c, 2-b, 3-a, 4-a

Upcoming Training Sessions

Class D Training (8am - 5pm)

March 4, 2015 -

Le St-Germain Suite Hotel
404 W. Saint Germain, St. Cloud, MN

April 15, 2015 -

City of Cohasset Community Center
305 Northwest 1st Avenue, Cohasset, MN

Class E operators may attend the morning session of the Class D workshops for 4 credit hours.

Class E Training (8am - Noon)

January 27, 2015 -

Itasca Mantrap Electrical Association
16931 County Road 6, Park Rapids, MN

February 4, 2015 -

Bunker Hills Activity Center
550 Bunker Lake Blvd NW, Andover, MN

April 7, 2015 -

City of Hastings
101 Fourth Street East, Hastings, MN

May 12, 2015 -

Xcel Energy Training Center
2100 West River Street, Monticello, MN

June 11, 2015 -

Mille Lacs Electric Cooperative
36559 US 169, Aitkin, MN

June 16, 2015 -

Cologne Community Center
1211 Village Parkway, Cologne, MN

Sincerely,

Kyle Kedrowski & Jennifer Koenig
Minnesota Rural Water Association

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