

(Amy Kahler, Des Moines Water Works, 2201 George Flagg Parkway, Des Moines, IA 50321, 515-283-8760)

CENTRAL IOWA REGIONAL DRINKING WATER COMMISSION

**Bondurant City Center
200 2nd St. NE, Bondurant, Iowa
April 22, 2003 at 6:00 p.m.**

John McCune called the tenth meeting of the Central Iowa Regional Drinking Water Commission to order and welcomed all in attendance. All participants introduced themselves. Present were:

City of Altoona – Joe Pirillo – (Rep), Vern Willey – (Ex-O)

City of Bondurant – Al Ihde – (Rep), Sandra Rhodes – (Staff)

City of Clive – Ronni Begleiter – (Rep)

City of Pleasant Hill – Tom England – (Alt. Rep)

City of Polk City – Robyn Crandell – (Staff)

City of Waukee – John Gibson- (Ex-O)

Des Moines Water Works – L.D. McMullen – (Ex-O), Connie Steffen – (Staff), Jenny Puffer – (Staff), Glee Anderson – (Staff)

Polk County – Pat Staggs – (Rep)

SE Polk Rural Water – Dan Lundberg – (Rep), Shirley Bos – (Ex-O)

Urbandale Water Department – John McCune – (Rep), Richard Foust – (Ex-O)

West Des Moines Water Works – (Larry Anderson) – (Ex-O)

Approval of the February 25, 2003 Minutes – Dan Lundberg from SE Polk Rural Water made the motion to approve the February meeting minutes, seconded by Ronni Begleiter from Clive. The motion passed.

Election of Officers – There are two leadership openings on the CIRDWC. Louise Moon, who served as Vice-Chair, is no longer the representative from Des Moines Water Works and Annette Vance asked to be replaced as Secretary due to other time commitments. Al Ihde, who served as chair of the Bylaws committee noted that the term correlates with the calendar year end and a nominating committee should have been appointed last October so nominations could have been submitted for election in January.

Acknowledging this oversight, Chairman John McCune requested nominations from the floor for a new Vice Chair and Secretary. None were offered. Al Ihde made a motion that the Chair choose a nominating committee for a new Vice Chair and Secretary to serve the remainder of the 2003 term. Ronni Begleiter from Clive seconded the motion. The motion passed.

New Water Treatment Plant Sub-Team report was given by L.D. McMullen from Des Moines Water Works. He began by commenting that the general direction of the team seems to be shifting to a focus on long range planning for the metro area vs. being involved in the details of the work the DMWW project team is doing on the new treatment plant.

- Revisions are currently being made to the Des Moines Water Works wholesale water rate structure. These changes are intended to simplify the process for everyone. The proposal under discussion includes:
 - Eliminating the need to designate specific meters to specific water rates.
 - Eliminating penalties.
 - Converting past capital investments made in “off-peak” water storage to Purchased Capacity.
- In the new plan, Purchased Capacity can be acquired at anytime in the future. It will not be limited to times where new capital investments are being made (i.e. when a new plant is being built).
- The team plans to proceed with developing a concept plan for delivering water to the entire metro area for short/long term needs.

Dan Lundberg of SE Polk Rural Water commented that the bulk of the long range planning initiative falls on Des Moines Water Works. L.D. responded that there will still be a large responsibility on the individual entities to plan for their system needs into the future.

- The team recommended that Des Moines Water Works manage the treatment plant capacity, ASR development, etc. (combining of two teams) with one exception – placing ASR in the far boundaries of a city/area to better manage their purchased capacity volume/peaks. This also benefits Des Moines Water Works production requirements by leveling out demand.

Jenny Puffer of the Des Moines Water Works staff gave an update on the work the project team is doing. A summary is provided on the attachment.

L.D. McMullen also shared an update on water quality. The latest contaminant is called N-nitrosodimethylamine (NDMA) which is a bi-product of rocket fuel production. This is the first carcinogen that is being measured in the nanograms/liter range (the threshold for short term exposure is 200 nanograms/liter; 10 nanograms/liter for long term. Los Angeles, California has experienced levels of 5000 nanograms/liter. There will be lots of

publicity because of cost issues in California. This contaminant can also generate itself in treatment and distribution systems if ammonia (sometimes present in source water) combines with chlorine (used in the treatment process). Testing for NDMA is difficult and the DMWW can not perform the test. However, DMWW has sent samples to an external lab for testing. Thus far, DMWW has not seen NDMA in the source water but has seen samples with 2.4 nanograms/liter from the distribution system.

Aquifer Storage Recovery (ASR) Sub-Team Report – Rich Foust of Urbandale recommended dissolving the ASR committee since the final report was given in February and the work is completed. Al Idhe of Bondurant made a motion to dissolve the committee. Ronni Begleiter from Clive seconded. The motion carried.

Westside Infrastructure Sub-Team Report - Larry Anderson from West Des Moines Water Works reported that the team appreciates Gary Benjamin's (DMWW) help with this effort, which has proven to be very beneficial. He reported that these two projects can serve as a model to others.

The remainder of the Westside Infrastructure report is summarized in the attached document.

Public Policy Sub-Team Report - Al Idhe from Bondurant reported that this team will not be meeting until the current legislative session is over. The weekly newsletters from Linda Kinman of Des Moines Water Works will continue to be shared with CIRDWC. The plan is to form a committee later in the year to develop topics and plans for next year. Volunteers are needed to serve on the committee.

L.D. McMullen stated Governor Villsack has expressed a goal of having no impaired water bodies in Iowa when he leaves office. This will be a real challenge since the standards are getting tougher. Lots of misinformation about is being related to our legislators some very serious source water issues. Funds are available to form wetlands (\$45 million) but there is great concern that it won't be spent wisely. The CIRDWC could be very influential in this area using multiple voices versus just one.

Larry Anderson of West Des Moines Water Works also shared that the State of Iowa financial issues will ultimately affect IDNR. Responsibilities could go to EPA and fees that utilities pay are likely to go up. Shirley Bos of SE Polk Rural Water questioned why water sales tax monies don't go to funding IDNR. This is position being supported by the Iowa Rural Water Association.

Next Meetings – The group was reminded of the next meeting on:

Tuesday, July 22, 2003, 6:00 p.m. – Colby Park Shelter House,
6900 School St., Windsor Heights

The October meeting is scheduled for:

Tuesday, October 28, 2003, 6:00 pm – Urbandale Library,
3520 86th St., Urbandale

Adjournment - Ronni Begleiter from Clive made the motion to adjourn the meeting. This motion was seconded by Joe Pirillo from Altoona. Motion passed.

Date: April 22, 2003
To: Central Iowa Regional Drinking Water Commission
From: Jenny Puffer, on behalf of the New Water Treatment Plant Sub-Team
Subject: New Water Treatment Plant Update

Raw Water Investigation

The U.S. Geological Survey (USGS) has provided DMWW with their recommendation for the general location of a radial collector well field. Based on the information they gathered, their recommendation is to locate the well field on the east side of the Des Moines River, south of NW 66th Avenue, and north of Interstate-80. This area of the floodplain seems to have the deepest aquifer with the greatest potential for high yielding wells. The next step toward identifying the exact locations for the future wells involves conducting additional soil borings and pump tests. DMWW and USGS will again be able to take advantage of a 50/50 cost share agreement for part of this work.

Land Procurement

A team is being kicked-off this week to begin looking for possible sites for the new treatment plant. Now that the general location for the well field has been established, this team can begin their research into available land.

Pilot Testing

The first round of bench-scale testing on the nanofiltration (NF) and reverse osmosis (RO) membranes has been completed. The results of this testing narrowed down the initial 9 membrane samples to 3 that will be analyzed during the second testing period. All three membranes that were selected are nanofiltration membranes. The second round of testing has begun and will be completed by the end of May.

Our pilot testing of the ultrafiltration (UF) membranes will begin the first week of May. There are 3 UF membrane pilot units that have been selected to participate in a 6-month pilot test. Currently we are working with the Iowa Department of Natural Resources to ensure the pilot testing protocol we have developed will meet all of their guidelines.

Purchased Capacity

We are continuing our work on developing the cost estimate for the new treatment plant. As mentioned at our last meeting, the consultants we contacted provided us with estimates of \$2.30-2.40/gallon. We are continuing to work on finding areas where the costs can be reduced in order to lower the overall cost.

In addition, several members of the NWTP sub-committee are working on developing a simplified billing structure to use in place of the multiple rates that are available today. The new billing structure is being developed so that only two rates will be used: purchased capacity and non-purchased capacity.

Westside Infrastructure Planning Sub-Team Report
April 22, 2003

Participants in one or more of the Westside projects are:

- City of Clive
- Urbandale Water Department
- City of Waukee
- West Des Moines Water Works
- Des Moines Water Works

The locations for the two projects remain:

- South – 98th Street, south of University Avenue in West Des Moines
- North – near Dallas County R30 and Meredith Drive (270th Street)

Since the last report to the Commission, work continues to move the proposed projects forward, as follows:

- The City of Clive is very interested in participating in one or both of the projects, with a total storage amount of 1 million gallons (1 mg), which could be solely in the south tank or split between the two tanks. Clive has indicated that it will issue its bonds to finance its share in the project. Since these can be G.O. bonds paid with water revenue, there is likely to be an interest rate advantage. Further, bond reserve fund requirements may be lower.
- The Urbandale Water Department remains interested in elevated storage and plans to work toward construction at a later date. That may change, depending upon if they decide to commit funds to the north water treatment plant and/or aquifer storage and recovery. If their commitment of funds in the treatment plant and/or ASR is sooner than later, then participation in storage will be delayed. Urbandale would participate in the north tank.
- The City of Waukee is committed to 500,000 gallons in the south tank, according to the results of the engineering study of their water distribution system. Financing alternatives are being studied at this time. The Waukee City Council has approved a letter of intent for participation in the project.
- West Des Moines Water Works owns land for the south tank and is proceeding to design the facility. An engineering design consultant (Krisha Engineering Consultants, Inc.) has been retained for the design. Plans and specifications are anticipated to be complete and ready for bidding within 4 months. As it stands today, the tank will have a capacity of 2 million gallons, with a capacity of 2.5 million gallons being studied.
- The committee is working on timing issues, so this work can be concluded on behalf of the Commission.

- Work is progressing well on a Chapter 28E intergovernmental agreement for these projects, with the plan that it should be ready for legal review in May and for presenting the various governing bodies soon after that. It is planned that the form of agreement for the south tank project can become a model for the north tank project, thus reducing costs and the time it would otherwise take to prepare an agreement from the beginning.