



**Minutes of  
October 11, 2006 Meeting  
Plum Creek Wastewater Authority**

In Attendance:

Nancy Keller	City of Pueblo
Randall Smith	City of Northglenn
Ray Cook	Silverthorne/Dillon
Todd Dahlberg	Colorado Springs Utilities
Sharon Davis	Metro Water Reclamation District
Bob Smith	Plum Creek Water Authority
Chris Laroe	Bear Creek Water & Sanitation District
Gayle Packard	Niwot Sanitation District
Dennis Schump	Greeley
Blair Corning	South Adams County Water & Sanitation District
Andrew Hawthorn	Glendale
Claudia Cummins	Aurora Water
Martha Hahn	Plum Creek Water Authority
Tim Grotheer	Plum Creek Water Authority
Wes Martin	Plum Creek Water Authority
Dennis Stowe	L/E WWTP
Paul Ferraro	Ferraro Associates

**Lunch - Plum Creek Wastewater Authority Facility provided lunch**

**I. Recap of Annual Meeting**

- September Meeting Minutes Correction: Officers: A total of 20 members were in favor of the slate of officers with none opposing.
- Sharon Davis and Paul Ferraro reported on the table display (prepared by Mary Gardner, Sharon, and Paul F.) at the RMWEA Annual Conference. The location of the table was great — near the meeting rooms and the coffee pot. Over 60 people attended Dennis Stowe's presentation on the Mentoring Program. Paul F. reported that he met with the Division District Engineers both for water and wastewater. They agreed to work with us. Ron Falco has prepared a paragraph regarding the Mentoring Program to be included in all inspection letters to facilities having problems.
- Blair Corning agreed to take pictures of the Council meetings and activities. Also members Facilities and training sessions picture should be submitted to Paul and Sharon for display presentation.

- Nancy asked members to recommend speakers / topics for 2007. The following were recommended:
  - A speaker to discuss automated process control.
  - Presentations by WQCD workgroups:
    - Aquatic Life
    - Spills Reporting
    - E. Coli TMDL
    - Biosolids concerns
    - Nutrient Criteria
    - Temperature
    - Mercury
  - Q&A session on construction process and contracting for new and expansion of wastewater facilities.
  - Session on wastewater system PR and talking points on certain key issues by a PR professional
  - Permitting Process - what to expect, what to do, etc.
- Meeting with Colorado Rural Water Association (CRWA)

Sharon and Paul F. gave a summary of their meeting with the staff of the CRWA at their offices in Pueblo West. See attached memo. Paul mentioned that at the CRWA and District Engineers meetings that the issue of helping private facilities was discussed. The Council discussed the issues and passed the following motion:

**Dennis Stowe moved, seconded by Todd Dahlberg, that the Mentoring Program help private entities and individuals providing a disclaimer clause is included.**

The motion passed unanimously.

**III. The CD Emergency Response Program** prepared by Brown and Caldwell several years ago was discussed. It appears that the only one to have used it was Sharon Davis for Federal Heights. It took her around 20 hours to populate. It was recommended that it be put on the Council's website. However, there was concern regarding security and would need to have the information password protected. Also the Mentoring Committee needs to evaluate the program - Utilities Helping Utilities and report to the Council at one of its meetings soon.

**IV. Updates**

- RMWEA - No report.
- Colorado Water Utility Council - Sharon reported that the CWUC voted at their recent meeting on Friday, October 6, 2006, to have a joint Mentoring Program as well as to provide water mentors. Paul F. will provide them with a cost estimate.

**V. Open Discussion**

Nancy reported on the following items:

- That Steve Canton will do a technical review of the US EPA August 2006 Draft Guidance for Implementing the Methylmercury Water Quality Criterion. The cost of the review is estimated at \$21,500 and the Council will fund 16% of the costs - \$4,500.
- Nancy signed an agreement with Chadwick to provide technical assistance with regard to the WQCD Nutrient Criteria Workgroup. This work to average 8 hours per month for 16 months for a total \$4,700.
- She also mentioned that Steve will attend a 2-Day Conference on Selenium, where he will present the selenium studies done for the Council.
- That the Spill Workgroup is meeting on October 12, 2006 to discuss definitions, changes in the law, regulations, etc.
- National Environmental Laboratory Accreditation Conference wants EPA to require a national lab accreditation program and mandate that all environmental compliance monitoring data be generated by labs accredited by the Program. The National Association of Clean Water Agencies is concerned that what was to be a voluntary program is now being pushed as a mandatory one.

Sharon reported on the following items:

- The WQCC PQL Hearing was held recently. They are considering site specific PQL's for certain compounds.
- Reg. 61 Workgroup is led by Janet Kieler.
- CREEC (Consortium for Research and Education on Emerging Contaminants). Metro has pledged funds to support a study on levels of BIS-2 and nonylphenol in wastewater effluent and receiving waters around the state. A study plan is being drafted by CREEC members. Once the plan is finalized, Council members will be asked to participate by providing effluent samples from various facilities for analysis.
- Temperature Workgroup (Section 3114) is recommending that POTWs be exempted. Kansas does have an exemption provision for WWTPs. Steve Canton is researching the details.
- Dennis mentioned the National Association of Clean Water Agencies (NACWA) is working to develop alliances.
- He also mentioned that the World Monitoring Day is Wednesday, October 18, 2006. Littleton/Englewood will again celebrate the day next Tuesday at their facility. Last year over 300 people participated at their Monitoring Day Celebration.

The meeting adjourned at 1:45 pm.

**Next Meeting: November 8, 2006 @ 1 PM at L/E WWTP**

## **Tour**

Martha Hahn, PCWA gave an overview of the Plum Creek facility before the tour. Her presentation is attached. Martha, Tim Grotheer, Wes Martin and Bob Smith of PCWA conducted the 1 hour tour.



# MEMORANDUM

**To:** Mentoring Committee  
**From:** Paul Ferraro & Sharon Davis  
**Subject:** *Meeting with CRWA Staff*  
**Date:** October 10, 2006

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On October 3, 2006, Sharon and I met with CRWA staff at their offices in Pueblo West. There were 10 staff members in attendance. Attached is the attendance list, which includes their name, telephone number and area of responsibility.

We gave them an overview of the Council and the Mentoring Program. They gave us a brief overview of what areas each person is responsible for.

We discussed how we can work together and we came up with the following:

1. The Circuit Riders would serve as the facility's mentees and post on the Bulletin Board questions that are raised by the operators they visit. (There are 1,900 drinking water facilities in Colorado that two water Circuit Riders visit. These facilities serve a population of 10,000 people or less.) There is one wastewater Circuit Rider who visits over 400 facilities a year. Each Circuit Rider visits 35-40+ facilities per month.
2. They cannot count private facilities, but they do need help? The Circuit Riders do visit some. They asked us, "How can the Council help them?"
3. Consider contacting consultants to see if they would reduce their fees for smaller communities and post their names on the website.
4. Develop answers to questions and post them on the website that will help the Circuit Riders. The questions may be technical, regulatory, management, financial, etc.
5. The Council should write articles for the CRWA magazine.
6. The Circuit Riders and CRWA are vehicles for communications with the smaller

facilities.

7. Council to send the mentors' areas of expertise to the Circuit Riders.
8. Council to consider developing an equipment exchange program on the Mentoring Website.
9. CRWA will put a questionnaire in their Newsletter and Magazine mentioning that they can help, as well as an article about the Mentoring Program.
10. CRWA believes that they need to develop positions on issues and they need to present those concerns of smaller entities before the Commission and other appropriate agencies.
11. Council to work with Paul Shreve, Training Program, in providing materials for him to distribute at his training sessions, including a 5-10 minutes DVD, or PowerPoint presentation of the Mentoring Program.
12. Would the State pay for design of certain processes that can be used by smaller facilities? This could help small systems save money on design work.
13. What is the best way to communicate the Mentoring Program to facilities?  
Research has shown that the following approach works best in the order shown:
  - a. One-on-one - word of mouth - Best.
  - b. TV and Radio announcements.
  - c. Printed materials.
14. Since many facilities are hurting for money, how do we help?
15. Paul and Jeannie to work with Shannon Henrich regarding CRWA's newsletter, magazine and website.
16. We should meet with CRWA staff again within 6-9 months to assess progress.

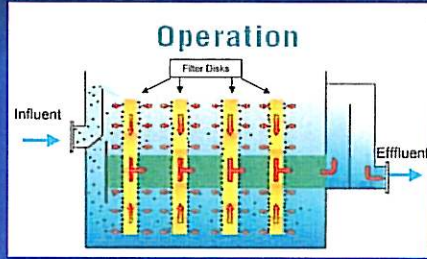
Mentoring Program may have an added approach - Program to support CRWA - Circuit Riders and Training Program where CRWA is the Mentee for small facilities and the Council is the Mentor to CRWA.

**CRWA**

<b>Name</b>	<b>Telephone</b>	<b>Area of Responsibility</b>
Shannon Henrich	719-545-6748	Membership, Marketing
Paul Shreve	719-545-6748	Training
Colleen Williams	303-449-2621	Source Water Protection
Fred Hand	719-569-0846 (cell)	Wastewater Tech.
Sharon Jenkins	719-545-6748	Office Manager
Al Tebavec	719-545-6748	State Source Water
Kathleen Carson	719-545-6748	Wellhead Protection
Randy Thielemier	719-568-0168	Water Tech.
Curt Armstrong	719-569-0281	Water Tech.
Rich Hayes	719-545-6748	Executive Director
Sharon Davis	303-286-3360	Metro Water Reclamation District
Paul Ferraro	303-995-2619 (cell)	CWWUC



## Cloth Media Filters



Side View

Water flows through the cloth filter disks into the center pipe.

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## UV Disinfection



Rack of UV Bulbs

- Water flows through an open channel, with UV bulbs suspended in it.
- UV light - 254 nm damages RNA and DNA of bacteria and protozoa, prevents replication and results in cell death

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## Odor Control



44 Ionization Units are mounted in the headworks and solids processing areas.



There are 5 bulbs within each unit.

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## Odor Control



- Creates negative and positive ions in clusters of 10-60 molecules
- Ions kill bacteria and neutralize odor
- Bulbs must be cleaned 1X/yr.

<http://www.bentonia.com/bentonia-air-quality/kernamp-olusat-bentonia/bentonia-works/berposdyfranc.htm>

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## Biosolids



Centrifuges used for dewatering



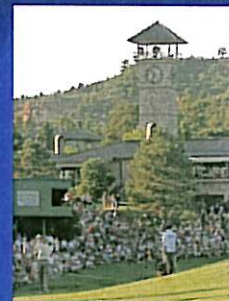
Biosolids

- Two Alfa-Laval centrifuges
- Produce ~ 20 wet ton/day
- Biosolids applied as fertilizer at Pancake Ranch and other sites in Colorado

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## Reuse

- International, Castle Pines, and Ridge golf courses irrigated with PCWA effluent
- 2005: Golf courses used 195 MG
- Also used for concrete mixing and dust control on HWY 85 expansion project



International Golf Course, Castle Pines CO

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## The Price of Clean Water

Construction Cost:  
\$29.4 M

Operations:  
(Not including debt service or capital costs)  
\$1.64 / 1000 gal.



Influent, Effluent, and Tap Water

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## Questions



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