

Barr Lake/Milton Reservoir Watershed Association

Technical Committee Meeting

Thursday, April 28th, 2011 (9:00am – 11:00pm)

Metro Wastewater Reclamation District, Denver

Draft MINUTES

Technical Committee Meeting – 4/28/11

In attendance:

Laurie Rink – Farmer’s Reservoir & Irrigation Company (FRICO)

Steve Lundt – Metro Wastewater

Linda Boyle - Aurora

Richard Archer – ARRA Environmental

Paul Winkle – CDOW

Kristi Livedalen – Squire, Sanders & Dempsey

Amy Woodis - Metro

Tim Grotheer – Centennial

Jim Dorsch – Metro

Michelle Seubert – Barr Lake State Park

Guests:

Amy Conklin – BMW

Meeting Minutes

Meeting minutes from the Mar. 24th, 2011 Technical Committee meeting were approved by acclamation.

The group began by welcoming Paul Winkle from the Colorado Division of Wildlife. Paul Winkle is the Aquatic Ecologist for the Denver Metro area. He made some initial comments about the health of the fishery at Barr Lake. He reported that he sampled Barr Lake last year in August when the water level is very low. He reported that the Walleye population was very healthy as was the Gizzard Shad population. Both Walleye and Trout are stocked in Barr Lake but Gizzard Shad are not; the population is naturally reproducing. Since Walleye eat Gizzard Shad, Gizzard Shad eat zooplankton, and zooplankton eat algae, the groups discussed the concept of manipulating fish species to control chlorophyll in the lake. While the concept is not an approved technique for managing water quality the possibility of using fishery manipulation to affect water quality is intriguing.

1. Barr/Milton Live Zooplankton Samples

- a. Use scopes to look at the grazers – Steve Lundt brought in a dissecting microscope and samples of zooplankton from Barr Lake for the group to see. The samples included Daphnia, Rotifers and Copepods. It was a treat for the group to observe first hand the invertebrates thriving in Barr Lake.

Steve Lundt reported that when he sampled Barr Lake yesterday, the Dissolved Oxygen throughout the water column was 4 mg/L and the clarity was 2.5 meters. He added that the water in Barr Lake remains very clear until about the second week of June.

2. Updating BMW WQ Database in 2011

- a. 2006-2010 Data request update- Laurie Rink sent out letter requesting data to 19 different entities. The deadline for the request is July. So far, we have received data from 3 of the entities. It may also be necessary to 'mine' certain data from websites.

3. Limnocorral Study Plan Update

- a. Jar Testing – Steve Lundt reported that he would begin jar testing soon.
- b. Alum Permission – We have still not received an response from the Department of Health regarding being issued a permit for Alum application. May 30th is the deadline for determining if we can use Alum. After that it will be too late in the growing season to use the Alum.
- c. Installation Plan – Steve Lundt reported that it took 2 hours for 2 people to assemble one of the limnocorrals. **The proposed schedule is to install the diffusers on Monday, May 16th beginning at 9 am; assemble the limnocorrals on Tuesday, May 17th beginning at 8 am; and install the limnocorrals on Wednesday, May 18th beginning very early at a time to be determined.** The schedule is heavily weather dependent. Before that, **Michelle Seubert** will coordinate a meeting with Steve Lundt and the firefighters dive team to determine if the divers can assist in the difficult task of installing the limnocorrals over the diffusers. **Laurie Rink** will coordinate with FRICO to ensure that there will be electricity available for the diffusers. **Amy Conklin** will send out a message to the Technical Committee and the Board requesting 5 to 6 volunteers for May 16th, 17th and 18th. If more volunteers are needed, the message will be sent to the Stakeholders, as well. **Amy Conklin** will be responsible for providing lunches for the limnocorral crew.
- d. Detailed Monitoring Schedule – The lake and limnocorrals will be sampled every Monday throughout the length of the experiment.
- e. DOW thoughts or ideas (Paul Winkle) – Paul Winkle reported that he doesn't anticipate any issues because the experiment is such a small scale. He instructed the group that if fish get in the limnocorrals, take them out and document how many and what species are removed. He cautioned that we will need to get fish out of the limnocorrals to prevent them from damaging the limnocorrals

Amy Conklin asked about the signage proposed for the limnocorrals. The group instructed **Amy Conklin to have Susan Thornton** coordinate with **Malinda Slaybaugh**, use vendors familiar to State Parks, and try to get the signs in place before May 16th. In addition half page fliers will be handed out by the boat inspection staff alerting boaters to the existence and purpose of the limnocorrals. **Steve Lundt** will need to buy several hundred dollars worth of supplies from Home Depot for construction of the limnocorrals. In addition warning buoys and the signs will need to be purchased. Amy Conklin reported that there was over \$15,000 budgeted for the limnocorral project in the BMW budget. **Richard Archer** suggested it may be appropriate to install 'bio booms' around the limnocorrals to

further protect the limnocorrals. He was instructed to get an estimate of the cost of materials.

4. TMDL Implementation Updates as Needed – There was no progress or discussion of these topics.

- a. Canal Treatment (Richard Archer/FRICO)
- b. Stormwater Options (Al Polonsky/Terry Baus)
- c. NPS/Ag. (Linda Boyle)
- d. WWTP upgrades (Amy Woodis)
- e. Internal Loading Treatments (Richard Archer, Steve Lundt, FRICO)
- f. Other (Burlington Pumps Update – Kelly DiNatale)

5. Other BMW Topics and Discussion – There were none.

6. Next Meeting

- a. Tech. Committee: May 26, 2011, **9am at Barr Lake boat ramp** – Anyone wanting a ride to Barr Lakes should report to Metro to get a ride in a Metro vehicle. **Anyone wanting to carpool with Metro staff needs to RSVP to Steve Lundt.**
- b. BMW Board Meeting: May 24th, 9am to Noon at Metro

The meeting was adjourned by acclamation.