

## Barr Lake/Milton Reservoir Watershed Association

### Technical Committee Meeting

Thursday, April 26th, 2012 (9:00am – 11:00pm)

Metro Wastewater Reclamation District, Denver

## MINUTES

### In attendance:

Steve Lundt – Metro Wastewater

Lori Hoover - Centennial

Linda Boyle - Aurora

Laurie Rink –FRICO (phone)

Shelley Stanley - Northglenn

Al Polonsky – Denver

Jordan Parman – Metro Wastewater

Kelly DiNatile - United

### Guests:

Amy Conklin – BMW

Welcome and introductions – The group introduced themselves and welcomed Lori Hoover in Al Baker's absence.

### 1. Alum Jar Testing Demonstration

- a. Steve Lundt has set up a jar test for the group to observe how alum flock forms
- b. Preliminary Results from 4/18/12 jar test -Dissolved Al can't go above 87 ug/L TP and pH has to stay within 6 – 9. Conducted jar test. Next jar test to see what 0.5 mg/L of alum will do to TP and pH. Flock forms quickest in jar with most alum applied. Concern that immediately after alum application, pH falls below 6. It recovers quickly and the pH sample is an integrated one from the top and bottom, so the assumption is that our results will be within standards. We might consider a demonstration to do at Barr Lake Appreciation Day.

### 2. Limnocorral Update

- a. Schedule – last page of plan
- b. Permit Requirements – The permit requires that we submit our application plan 30 days prior to the experiments beginning. We are required to use AlSO<sub>4</sub>. As long as pH and dissolved Al are within standards, we are in compliance with the permit. If any fish are observed to be in distressed, we have to pause the experiment, however, there are unlikely to be any fish in the limnocorrals. We also need to amend the signs to add that there are no concerns about public health. Prior to removal pH has to be within standards as well as other parameters. So we'll take some samples, send them off for analysis, and if the results are within standards, we can take the limnocorrals out. Special, additional sampling will be required as part of the permit. We may need to have new signs and will need to have flyers to hand out. Need to make my summary, edit to add in what we're doing this year and create a flyer to hand out. (Amy, ask Steve –PC with 2011 on one side, 2012 on the other with No human health effects. Steve will talk to SR about using Angela) We've spent about \$600 repairing the corrals so we might not get too many more years of use.
- c. Alum Application Plan Approval (submit to State on 4/30) – We will be constructing the corrals on May 14<sup>th</sup> and installing them on May 15<sup>th</sup>. We need to be sure to have

liability waivers signed and prepare lunch for everyone. Anyone who wants to help just needs to show up at 9. Amy should send invitation (Vic (Shelley has his email) and Bill Ruzzo, John Stednick, all Stakeholders, some others – Julie V, Tim Friday, Katie F, Russ C, Chris Krouse, Casey, Kevin U). Steve will coordinate with Blair Wacha. Amy needs to make sure insurance certificates are Ok.

### **3. BMW 2011 Linnocorral Summary**

- a. Discussion – Steve prepared a power point on the results of the 2011 linnocorral study. Jordan Parman presented it to the group. As an aside, Steve reported that TP concentrations in Barr Lake are currently below 400 ug/L possibly as a result of Metro’s pilot study to reduce TP. Aeration shows potential for controlling pH, however TP was higher in the corrals than the open water, possibly because of physical disturbance. By August and September, pH levels were out of compliance in the corrals and open water due to excessive algae blooms. Algae species were more diverse in the corrals with aeration than without. Steve and Jordan will send the presentation to Amy for posting on the website.

### **4. BMW WQ Modeling Update**

- a. Data being sent to Marcia – Steve has been in contact with Marcia and has begun sending her data. Lochbuie and Fort Lupton will be sending in their data. The contract specifies only 2 hours for data manipulation so we’re being careful to assemble data in the format needed. There is a lot of flow data needed and we may need to purchase flow data from the state engineer. The data can be accessed online but is not compiled. We already have discharge data but the instream flows also have to be compiled. May 15<sup>th</sup> is the deadline for data submission.

### **5. TMDL Implementation Topics (On Going Updates as Needed)**

- a. Canal Treatment – Richard Archer has sent some files on in-canal treatment that may be of interest for future meetings. We need to wait to see if the approved TMDL will allow the flexibility to conduct in-canal treatment.

### **6. Other BMW Topics and Discussion**

- a. Milton’s Unusual Clarity – Steve presented the Secchi disk readings for Milton Reservoir which has been unusually clear. For a few months in the fall the lake was drained for repairs and then the lake was refilled. Between Metro’s pilot study that reduced phosphorus, carp population reduction and other factors the TP levels are lower and the secchi disk readings are better. Steve will send the group the presentation on Metro’s presentation that have significantly reduced TP in the effluent.
- b. Al Polonsky updated the group on his effort to promote TP-free fertilizers. Denver is considering distributing a survey to customers informing them that there are alternatives in fertilizers. Denver would like to work with BMW on the effort. We could work with Denver about including questions about fertilizer options could be included in the baseline survey. Laurie Rink reported that she has been in conversations with Jon Novick regarding Denver’s participation in our Steering Committee or in some other way. Al Polonsky will follow up.

### **7. Next Meeting**

- a. Tech. Committee: May 24, 2012, 9am at Metro

- b. Linnocorral assembly May 14<sup>th</sup>; installation May 15<sup>th</sup>.