

MINUTES OF THE  
BIG BEAR LAKE TMDL TASK FORCE MEETING

November 18, 2008

**Agency**

Regional Water Quality Control Board  
Big Bear Municipal Water District  
Brown and Caldwell  
California Department of Transportation  
California Department of Transportation  
City of Big Bear Lake  
Risk Sciences  
San Bernardino County Flood Control District  
Santa Ana Watershed Project Authority  
Santa Ana Watershed Project Authority

**Participant**

Hope Smythe  
Scott Heule  
Nancy Gardiner  
Cathy Jochai  
Gian Villareal (RBF)  
David Lawrence  
Tim Moore  
Matt Yeager  
Mark Norton  
Marie Jauregui

**Call to Order & Introductions**

Big Bear Lake TMDL Task Force meeting was called to order at the San Bernardino County Public Works office, 825 East Third Street, San Bernardino, California.

**Approval of August 27, 2008 Minutes**

The October 15, 2008, Big Bear Lake TMDL Task Force minutes were unanimously approved.

**Discussion: FedEx Third Party Charges**

Robert Taylor sent an email stating that BBMWD should not receive any further FedEx invoices for the Atmospheric Deposition delivery charges from November on.

**Status of Task Force Agreement Approval**

The Final Big Bear Lake TMDL Task Force Agreement was distributed. The tracked changes shown are the result of the teleconference with each agency's legal counsel. It was noted that there was consensus from the legal counsels regarding the language. A PDF version of the Agreement will be distributed to the Task Force for signature. A Microsoft Word version of the Agreement also will be distributed so each agency can make changes to their respective signature page.

**Status Update: Watershed and Lake Monitoring Program**

Nancy Gardiner is awaiting approval to proceed from CDM. CDM is waiting for a finalized agreement with SBCFCD. Matt Yeager thought that CDM could proceed with a PO number. However, Ms. Gardiner was informed that CDM needs a signed agreement before a subcontractor agreement can be initiated. Training will begin after Brown and Caldwell receives authorization. Mr. Yeager will check the status of the Agreement. He also requested that the letter SAWPA prepared and sent to the Regional Board explaining the delays associated with the Lake Management Plan report be distributed to the Task Force.

Tim Moore discussed the Lake Management Plan and 3D mapping tool. Because of technical issues (*i.e.*, internet access, special computer program, licensing), Mr. Moore was not able to provide a demonstration of the 3D mapping tool. As an alternative, he distributed a hydrograph (labeled Figure 1.A Lake Drawdown 1977-2006) of Big Bear Lake, which will be included in the Lake Management Plan. This hydrograph shows two curves – the lake level as it is actually operated and what the lake level would be if the exchange agreement between BBMWD and Bear Valley Mutual did not exist. He noted that the 3D map is capable of showing the lake levels in real-time. Also, if the hydrograph was rendered as volume

rather than lake level, it would look very similar. He then distributed a statistical view of the hydrograph, which tells how often the lake will be down a given amount. In other words, it shows the percent of time the lake is up “x” number of feet because of the exchange agreement. On average (50% mark), the lake is approximately two feet higher than it otherwise would be without the exchange agreement. Mr. Moore discussed potential conflicts, preferential zoning, and the purpose of the model.

He distributed a 2D version of the 3D map, noting that everything on the map that is red or orange was dry in 2004. In other words, half the volume of a 73,000 acre-foot lake was gone. After the 2004 storms, the lake not only doubled in area, but in volume as well. However, if the exchange agreement was not in place, everything that is yellow or green on the map also would have been dry. Discussion briefly ensued. Alternatives can now be tested on a quantifiable basis for the acre-foot-months of the habitat provided. The idea is to fix the beneficial use without getting fixated on the chemistry. The tool is designed to provide a method to operationalize and quantify the beneficial uses. Mr. Moore briefly discussed the *geologic structure cross-section* that was distributed.

The idea is to show all these efforts as on-going, and to summarize it as a systematic whole. Discussion briefly ensued regarding a Big Bear Lake Dredging project. Originally, the 3D mapping was not going to be part of the Lake Management Plan, but now it will be. It will be delivered by December 8, 2008. Ms. Smythe is more concerned about the watershed monitoring plan and the lake management plan. Mr. Moore will speak with CDM to follow-up. It was noted that the Regional Board still needs a monitoring plan and a QAPP.

#### **Schedule Next Meeting**

The next TMDL Task Force meeting has been scheduled for 8 a.m. on Tuesday, December 9 at BBMWD. A CEQA meeting will follow the Task Force meeting at 10 a.m.

#### **Adjournment**

There being no further business for review, the meeting adjourned at 4:25 p.m.