

## **Mountain Lakes District Water Committee Report for December, 2013**

This report covers the monthly meeting of 12/5/2013 and a meeting with Joseph McLean of Wright-Pierce on 12/16/2013.

### ***Mountain Lakes District Water Committee Meeting of 12/5/2013***

Status: Draft as of 1/1/14 – Reviewed as of 1/2/14 - Approved as of 2/6/14

This was the December 2013 Water Committee Meeting. It was held from 7:30 AM to 8:25 AM on 12/5/2013

Attendees: Ed Rajsteter – Chair, Don Drew – Water Department, Bob Long – Commissioner, Peter Olander, Robert Roudebush, and Ken King.

We approved the minutes of our 11/18/13 meeting.

### **Water System Status**

Don reported that the average water usage in November was 21,500 gallons per day.

There is an issue with the valve that controls the WWL feed.

The lead free items are in. The pump house new roof is green corrugated metal. The excess pipe has been placed on Craig's List.

### **Concrete Culverts**

Bob has been looking into the possible use of precast concrete to repair the outlets for both the lower and upper dams. One of the concrete suppliers, American Concrete, suggested Wright-Pierce as an engineering firm that has experience in this area. We have a meeting set for Dec 16<sup>th</sup> at 8:00 AM with Joseph McClean from Wright-Pierce.

### ***Meeting with Joseph McLean of Wright-Pierce on 12/16/2013***

Ed, Don, Bob, Peter, Robert, and Ken met with Joseph McLean on 12/6/13. We discussed the idea of using precast concrete to replace the outlets for both the causeway dam as well as the lower dam. Most of the discussion was on the lower dam as that is a much more complex project. We reviewed the prints we have of it and then walked the entire dam area.

There are several options for such a system. We had talked about using a single open culvert with a bridge over it. The problem is that the level of the lake is 30' above the outflow river. To absorb this much of a fall would require significant special concrete or 4' boulders. The other problem is how to protect the input area. It must be fenced off to prevent any items from being drawn into the outflow.

The result was to assume that we would use the current design and replace the riser and metal pipe with concrete elements.

Joseph was able to give us an estimate of costs. For him to develop a complete design and costs would be about \$2500. He also said that we really needed a current plan for the entire lower dam area. The

estimated cost for this was \$7000.

He was concerned about working with clay and the fact that this is a high hazard dam. His estimate for the complete project was \$500,000 to \$700,000.

At our next meeting, we will discuss how to proceed in this area.