



# Windermere Oaks Water Supply Corporation

424 Coventry Rd  
Spicewood, Texas 78669

**2014 Board of Directors:**  
Bob Mebane, President  
Dana Martin, Vice President  
Dorothy Taylor, Secretary/Treasurer  
Jerry Ingham, Director  
Jeff Hagar, Director

## **Open Board of Directors meeting held at the Windermere Oaks Water Plant: Wednesday, August 17, 2016.**

**Board Members Present:** Bob Mebane, Dana Martin, Dorothy Taylor, Jeff Hagar

### **Minutes**

The meeting was called to order at 6:30 PM. A quorum was established with all Board Members present except Jerry Ingham.

Motion was made by Dana Martin to approve minutes of 06-25-16 WOWSC Board Meeting. Seconded by Jeff Hager unanimous approval by the BOD's present.

Manager's report: George Burris reported:

The CT Study, as prepared and submitted to TCEQ, by our Engineer, George Neill, was approved on July 14, 2016. A copy of the approval letter is attached. The purpose of this study is to establish the operating limits under which the treatment process will achieve the standards required by TCEQ regulations. This approval certifies that our plant, if operated according to their regulations, will achieve their standards. In order to demonstrate the compliance of our plant, the operator compiles data, which is collected automatically by our plant computer, and then submits a comprehensive report at the end of each month to TCEQ.

A major component of the treatment process is disinfection, which is accomplished by maintaining the minimum level of chlorine in the water, as calculated by the CT Study. Among other factors, the CT Study calculates the amount of time that the water has to be in contact with the chlorine in order to adequately disinfect the water. So, the longer that chlorine is in contact with the water, the more effective is the disinfection of the water. Unfortunately, because chlorine is an aggressive molecule, and it combines readily with other constituents in the water, some of those compounds create health issues and other concerns. For example, some of the compounds have been shown to be carcinogens, and these by-products are regulated, and have maximum allowable levels in drinking water.

Two of the more important sub-groups of these compounds formed by interaction with chlorine, are trihalomethanes and haloacetic acids. These compounds, of which there are dozens, are generally referred to as DBPs (disinfection by-products), and they affect us directly. Three times each year, TCEQ sends a contractor to our system to take samples, which he then delivers to their lab. The last round of samples were taken in May, and the lab result for haloacetic acids was only 2 parts per billion below the maximum contaminant level.

In order to address this issue, I have consulted with a longtime manager in the area of water chemistry with both the Health Dept., and TCEQ. He has come to our plant and studied our CT Study, and lab sample results, with both the Corix supervisor and myself. His recommendation is to move the chlorine injection point so that we can settle out of the raw water some of the precursors which combine with chlorine to form the DBPs. This is consistent with manuals published by the American Water Works Association and other research organizations, and we are in the process of making these changes.

### **OTHER DEVELOPMENTS**

- The chemicals and injection pump have been installed in order to begin a program to reduce corrosion characteristics of our water. This addition to the treatment process will lower the levels of lead and copper in our system, and also it will help protect our customers' plumbing fixtures by reducing corrosion throughout the system.
- Our engineer has reported that TCEQ has approved the engineering plan to replace the Tennis Village lift station. The actual approval letter has not been received, but should arrive within a week.
- The first replacement of the Hill Condo units is nearly complete, and the installation of the water meter and the sewer tap is underway. Since the fire destroyed the service lines, this installation is more extensive than normal, but they should be complete within a week, if we are not delayed by these unusual August rains.
- A key component of the plan to build a new waste water plant was to install a lift station at the site of the old plant. This new lift station was designed to transfer all the sewage from the entire community to the new plant. When the lift station was put in service, a dense foam formed on the surface of the waste water in the tank. As it formed, it was so strong that it would lift the floats off the surface of the water. Since these floats were the devices which turned the pumps off and on, they could not function, and the pumps would never turn on. The tank would fill up, but the pumps would not start, so the high level alarm would call the operator. Every attempt was made to address this problem, including consulting with representatives from TCEQ, TRWA, chemical companies, and other waste water operators. A waste water service company inspected the problem, and claimed they could solve the problem by installing a compressor which would aerate the waste water in the tank. Their estimate was \$6,500. We installed a small compressor, and the foam dissolved, and the lift station has been trouble free for over a month. Our cost was \$1,500.

Review of financial reports: Karri Gibson gave a review of the financial reports.

Review of Tennis Village lift station: Discussion of next steps. George Burriss is to talk with Engineer about discrepancies from approved specs by TCEQ. Discussed option for the need to resolve how to protect pumps.

Bob Mebane to set up meeting with George Neill. George is to get bid from Corix for maintenance and to get breakdown of costs for alternative options.

Timeline for end of year: George and Karri are working on Budget, they plan to have ready in October.

Pat Mulligan has information on a website hosting service that he will share.

There was discussion of the tariff language on past due accounts.

Jeff Hagar inquired about possible TCEQ waiver for the connections limit on requirement of generator. Need to deal with Tennis Village, then generator backup next year. There was mention that Malcolm possibly has generator available.

No other business. Jeff Hagar made a motion to adjourn, seconded by Dana Martin, unanimous approval of all board members present. Meeting adjourned at 7:20 PM