

Treasure Island Water System

Annual Membership Meeting Report
July 9, 2016

Water Production

For the calendar year 2015 our three wells produced 12,100,686 gallons, which is 468,688 gallons more than 2014.

All time highest documented year was 2002 with 14,007,200 gallons pumped and the lowest documented year was 2008 with 10,018,000 gallons pumped.

Service Meters

On June 7th, 2016 the last two service meters were installed. We have 224 active service connections on the island.

I would like to personally thank Rick Buran for sticking it out and helping to get this project completed. I would also like to thank Dave Dickinson for his participation in the early stages.

Inactive Service Connections

There are 14 inactive service connections, which are connections to the mainline but no member connection going out of the service box. These are being converted over to a lockable meter valve and being padlocked. When active service is requested, the padlock will be removed and a meter installed. 6 of these have been converted to date.

Other Water System Information

There are 11 lots remaining on the island that could request a water service connection.

There are a combined total of 8 half and full lots that cannot have a connection. These have either been absorbed into another parcel or are half lots which are too small to build on.

Of the 224 service connections, 6 of these are on TICC common property. (*Well #1, Well #3, Beach, Dock and the 2 Standpipe properties*)

Now that we are fully metered – What's next?

The state requires us to monitor our water system for the next two years to develop a baseline for Distribution System Leakage (DSL). Each year we will be required to record the amount of water pumped out of the ground (source meters) and compare it to the amount of water consumed (service meters) The difference between the water pumped and the water consumed is considered the DSL.

The Treasure Island Water System has decided to record the service meters every month for the first 3 months. This is to give us a heads-up to any significant leaks on the island. We anticipate going back to reading the meters every quarter.

Note: **Checking for Leaks** – Now that every residence has a water meter, members can easily check to see if there are leaks in their water line or plumbing. For a short easy procedure, see the [Water page](#).

Standpipe Removal

In an effort to maintain the quality of our drinking water and to alleviate one area of water leakage, I am requesting the Board to approve the removal of all the blue 2" standpipes around the island and removal / conversion of the red ones. These standpipes were the fire hydrants installed in 1953 when the water system

was first installed. Some of them have already been capped off, 5 were converted to sample stations around the island and the blue ones had their fire hydrant fittings removed and plugged.

The piping (anywhere from 3' to 10' long) between the main line and the standpipe is considered a dead-leg because of the stagnant or non-moving water. Some of the red ones will be converted to below grade sample stations and some of them will be converted to below grade blow-off stations. The remainder will be removed entirely from the mainline.

Water Conservation

The forecast is for a hot dry summer so the water team is requesting that members and their guests practice voluntary water conservation.

Water usage from January through June of this year is 260,160 gallons lower than last year. (*4,740,575 gallons vs. 5,000,741 gallons*) We are off to a good start this year so please keep this trend going by continuing to practice voluntary water conservation.

For conservation tips, see the [Water page](#) on the TICC web site.

Water Quality Monitoring

Each month we are required to take a sample of our water to test for coliform. All tests for coliform were negative. All tests from January to June of this year have also been negative.

Nitrate samples were taken in June of 2015 from all 3 wells. For all three wells the results were < 0.1 mg/L. For context, the SRL (state reporting level) is .5 mg/L and the maximum contaminant level (MCL) is 10 mg/L. This test is required annually.

Lead and copper samples were taken from 5 homes the last week in July 2015. This is a state requirement which is on a 3 year cycle. All of the five homes were below the SRL (state reporting level) for lead. For copper, three of the five homes were above the SRL, but all five were well below the Action Level.

Each homeowner tested was mailed a copy of their results in August. A certification form that says we notified the homeowners went to the DOH also.

Radium 228 and Gross Alpha tests were taken in October 2015 at all three wells. According to an analyst at Energy Labs, the results are very clean and are in compliance. He called the amounts detected "background levels." These tests are taken every six years.

Note: A complete summary of the testing can be found in the Consumer Confidence Report---available on the [Water page](#) and also mailed to members in early May each year.

Department of Health – Revised Total Coliform Rule

The Revised Total Coliform Rule (RTCR) replaced the Total Coliform Rule on April 1, 2016. The revised process for dealing with a positive coliform test has become more intensive and complicated.

Rod Wilkinson, our Water Quality Monitoring Manager and Secretary, developed a TICC revised plan and worked with our Water Distribution Manager and Operations Manager to finalize the draft plan. Rod then presented the plan to the TICC Board at the June 2016 Board meeting for final approval.

Sample Station Update

The 5 sample stations we currently have require rebuilding every 2 years, and are open to air down to the below grade valve, allowing bugs to invade the sample station. Because of this, the procedure for taking a sample from these stations is intensive; (*chlorinating, running the water for a length of time and torching*)

To help alleviate as much of the risk as possible the Board approved replacing 3 of our 5 sample stations with the new ones we had planned for this fiscal year.

The money for this was approved by the membership for the 2015 – 2016 fiscal year.

Water System Renovation Plan

After the final copy of Gray & Osborne's TICC 20 Year Water System Renovation Plan was received, a Special TICC Board Meeting was held on September 21, 2014.

The Standpipe Seismic Stabilization was voted by the Board as our primary priority.

October 27th – Core Sampling was done by Geo-Tech. They took core samples inside the tank compound area at two locations. Initially going to go down to 30 feet at each location but stopped at 25 feet. General comments were good hard soil.

On February 18th, a meeting was held on Treasure Island to discuss the seismic stabilization.

The seismic stabilization of our water tank would not necessarily guarantee an “earthquake proof” tank. It would only bring it up to current code.

Another option was presented at this meeting which involved the lowering of the water level in our 150,000 gallon water tank to around 30 feet vs. the 62 feet we now pump to. This in turn would lower the water pressure to below the state required 20 psi. This would require the installation of a booster station with a back-up generator.

This option was viable only if TICC decided we were not going to provide fire protection to the island. Since much of the storage provided in the reservoir would be fire suppression storage if TICC supplied fire flow, a decision to not provide fire flow allows for a reduction in storage.

Since our Grapeview Fire Department provides their own water and would not connect to our fire hydrants, this became a viable option.

This latest option is now being presented to you, the membership.

Daryl K Axelson
Water System Operations Manager
Treasure Island Water System