



Lake Limerick Water

Manager's Report

July 10, 2019

Lake Limerick Water System: July meeting for June 2019.

The general condition of the water system is good with water availability to the customers good.

Well Conditions:

- + Well #1 is operating normally.
- + Well #2 is still in stand-by and is considered a Seasonal use per Water Rights.
- + Wells #3A and #3B is online, well 3A is offline issue with check valve.
- + Well #4 is operating normally.
- + Well #5 is operating normally.
- + Well #6 is operating normally.

Water Usage:

7.7 million gallons were pumped in total from the sources for May and 7.2 million gallons are documented as "sold". The loss for the month is 6.6%. Total loss for the year is 23.3% down from 27.6% last month. (Per DOH, all real and apparent losses are considered DSL if it is before the customers meter) State requirements for compliance is less than 10% for the next year, based on a 3-year average of the three previous years.

Customer Concerns:

LLWS had 10 regular locates, no emergency locates.

Water Sampling:

The bacteria samples for June is satisfactory.

Thoughts:

Past, present, and future...

- I. WSP update to meet compliance.
- II. Exercising of valves and hydrants – Record keeping is being kept on a DOH standard Document and began flushing and valve exercising on Connemara. Several valves are inoperable or need locating as they are buried under county roads.
- III. Leaking valves – looking into contractors; Dartmoor and Balbriggan – Saint Andrews and Shamrock

- IV. VFD & Pressure tank upgrade status: **New approach to isolating the tank by installing a quik-valve in-line at the pumphouse. Quote of \$6,055.00 for Tim from Speer taps to install. Waiting on a demo of a Hydro-Vac from VacTron to expose pipe to get diameter for submittal.**
- V. Researching extension ladders to be mounted below all reservoir cages for safety. Extensions have a fold over assembly that prevents access. Research is being sought through BakerSilo.
- VI. Continuing to insulate pump houses and complete well 3b wellhead protection.
- VII. Don and I are working with Michael to complete the Scada upgrade. **Original SOW is complete. I am learning more on my own, was able to get assistance from Exele to finish TopView Program. Working on getting Scada fixed on my own. Did notice that tag reference to MTU has changed from old to new. Maybe has something to do with glitches. Also, poll indexing is slowed during communications errors, researching this also to correct.**
- VIII. Power issues @ well 5 and well 3. VFD's fault at an input phase loss. Working with PUD3 to get this issue corrected. Both facilities are on 3 phase open-deltas and something is causing an imbalance between phase. Load reactors have been installed at well 5 and well 3 (temp wiring) need to finish enclosing. Ritchie from Ram electric went over the two sites and to determine if any changes were need. Looks like investigating generator voltage and submersible pump voltage characteristics.**
- IX. Franchise agreement with the county has been submitted. Awaiting the commissioner to renew. Cost was \$300
- X. **Part of item IV above.** Well 3A pump needs to be pulled and a new check valve installed. Sean and I checked the pump operation Tuesday March 5th and when pump is shut off plumbing shakes. E have determined it is a faulty check valve and it is creating a hammering effect. Pump is currently in off position. **Contacted Mark Moore with Pacific NW Pumps and he is working on a cost to repair the check valve, possible pump replacement, inspect screen with camera to determine if cleaning is needed during removal.**
- XI. Installing UPS backup power to PLC and Radios at each well. Will continue as time allows.
- XII. Sent Lydia from NWS quarterly reports for water usage back to 2013 for WSP updating.
- XIII. Cost Analysis and savings of 660 Aycliffe service install from main is attached.
- XIV. Cost analysis of ReadCenter from General Pacific is attached

XV. Working on Budget Items / Forms for Hydrants / Mapping Issues / Pressure issues