

LAKE LIMERICK WATER SYSTEM CAPITAL PROJECTS FOR FY 2019-2020

1. Ladder extensions and upgrades: Upgrades are required to meet OSHA and DOH standards to improve security, water quality and safety to employees.
2. Hydrologic study: An engineering study needs to be done to determine the best way to increase the water capacity and peak demand of the water system. Water rights for each well need to be consolidated so that we have more flexibility to use the most efficient wells rather than being restricted to water rights assigned to each well.
3. Well 6 upgrade: Well 6 production has decreased since the well was first operational. Recommendations from the hydrologic study will help determine the best way to increase production.
4. Well level meters: Aquifer levels are currently monitored twice a year. Because of climate change and increased use of ground water the levels should be monitored more frequently. This would also improve operation of each of the wells.
5. Flow meters: Currently the total system demand, metered water consumption and net water loss are only measured once a month for billing. In order to measure peak demand and also measure system leakage on an hour by hour basis, would require installing flow meters to measure the actual water consumption in real time.
6. Source meters: Source meters are decades old and accuracy degrades over time. Source meters need to be either calibrated or replaced. By upgrading the source meters the actual hourly draw from each well could be measured.
7. Generator: Currently operational generators are located at Wells 3 and 6 on the southern half of the water system. There are no generators on the northern half. It would be good to have a generator on the north half in case of a major power outage or disaster.
8. Storage building: Replacement pipes and major spare parts, like hydrants, are currently stored in outside storage that is part of the maintenance yard and should be kept in inside storage to prevent deterioration of the stored equipment.