



Lake Limerick Water

Manager's Report

May 7, 2020

Lake Limerick Water System: Water Committee Meeting regarding April 2020.

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

SCADA is regularly monitored and operated everyday by NWS.

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/3B are operating "normally".
- ↓ Well #4 is operating "normally".
- ↓ Well #5 is operating "normally".
- ↓ Well #6 is operating "normally".

Water Usage:

5 million gallons were pumped in total from the sources for February, and 4.7 million gallons are documented as "sold". The loss for the month is 4.9%. Total loss for the year is 8%.

Customer Concerns:

LLWS had 14 regular locates.

Water Sampling:

The bacteria samples for April were satisfactory.

Action Items

Well Site #4: The new booster pump was installed on April 28th. The leak was also addressed, cutting back the existing 4" Sch40 PVC and replacing with Sch80 PVC.

Well Site #3: The enclosure for Well #3b has been left unfinished. NWS repairs lead has been able to get his eyes on this. Will request formal estimate with approval to do so from the committee. Open to suggestions from the committee for any other contractors.

Well Site #2: The enclosed VFD has been mounted. A fair amount of electrical re-configuration is in process, but left unfinished. I met with RAM electric for estimate to complete this work. They request more information, would like to pick Joe's brain.. Open to suggestions from the committee for any other contractors.

Well Site #1: VFD is onsite. Installation has not begun. I met with RAM for estimate... Open to suggestions...

Reservoir top needs:

Reservoir #1: Temporary cover is installed over target float wire entrance. Permanent solution is needed. Per email correspondence with DOH; since a transducer exists and is used to monitor the reservoir level, a physical target is not necessary.

SCADA

Twice daily, (at least), set point adjustments continue to be made to ensure proper storage turnover, adequate and consistent pressures maintained throughout the system, and prevention of excessive pump cycling.

Alarms still in effect at sites #2 (currently off), and #5 (intrusion alarm).

Electrical Usage in KWH

	Jan-18	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Total
Well #1	2,170	1,869	2,464	2,483									8,966
Well #2		2844	1705	508									5,055
Well #3	6,319	5,698	4,964	5,800									22,781
Well #4	775	819	2,168	2,213									5,975
Well #5	403	720	2,177	1,990									5,290
Well #6	6,544	4,211	4,131	3,486									18,372
total:	16,211	16,161	17,609	16,458	0	0	0	0	0	0	0	0	66,439

Gallons Per Kwh

	Jan-18	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Gal/Kwh YTD	AVG
Well #1	341	353	370	417									370	AVG
Well #2		0	0	0									0	AVG
Well #3	293	315	268	379									314	AVG
Well #4	276	272	338	334									305	AVG
Well #5	61	169	247	252									182	AVG
Well #6	241	215	191	149									199	AVG
total:	272	229	244	303										
													AVG Gal/Kwh combined = 262	

Historical Data

	Pumped	Sold	Loss
2010	69,790,309	66,840,300	4.2%
2011	60,958,882	56,483,665	7.3%
2012	57,963,886	54,775,298	5.5%
2013	56,859,553	54,275,297	4.5%
2014	62,649,611	60,973,228	2.7%
2015	66,109,416	61,749,171	6.6%
2016	66,784,811	62,157,037	6.9%
2017	64,963,044	62,010,322	4.5%
2018	67,149,235	64,162,480	4.4%
2019	79,119,500	61,189,708	22.7%
2020	17,396,700	16,003,405	8.0%
2021	17,396,700	16,003,405	8.0%
2022	17,396,700	16,003,405	8.0%
2023	17,396,700	16,003,405	8.0%
2024	17,396,700	16,003,405	8.0%
2025	17,396,700	16,003,405	8.0%

Updated March 7, 2019 per Water Use Efficiency Guide Book Third Edition (Jan. 2017) per
 WSDOH Division of Environmental Health Office of Drinking Water Pub. DOH 331-375
Distribution System Leakage Notes: