



Board of Directors
Beverly Beach Improvement Club
 Monthly Report of System Operation
Month: August 2019

For the month of August, the Beverly Beach Improvement Club water treatment system ran well. Monthly bacterial results met state DOH requirements.

The well production data, using the supply meter data as read, better estimates of flushing and backwash volumes and same-day readings of the user meters and well pump meter, suggested that the water loss was 16.5%, above our target loss of less than 10%.

Calculation over the past several months usage by BBIC has suggested that the well pump meter has been over-reading by 16%. This was tentatively confirmed by WWS by comparison of the rate of production with the rated pump capacity. Over the last few months, this correction appeared to be generating better estimates of the unaccounted-for water. Using the corrected well production, the water loss for August, as shown in the table below, was estimated to be a 0.6%. There are possibly other errors in the calculation or the supply meter is unreliable and may need to be replaced.

In order to resolve these problems in estimating the water losses, now that a new well pump has been installed, we recommend that BBIC consider replacing the well pump meter with a new calibrated digital meter. We will also continue testing older hookup meters and doing leak detection to improve our understanding of these estimates.

Production

Based on Daily Log Sheets from: 7/31/19, to 8/30/19	Current Month Production	Last Month Production	Difference %	Last Year Production	Difference %
# of Days	30	37		32	
Total Production	425,100	545,400		411,400	
Daily Average	14,170	14,741	-4%	12,856	+10%
GPD/Home-108	131	136	-4%	119	+10%

Consumption based from: 08/01/19, to 8/31/19	Total Produced	Water Sold Meters	Backwash & Flushing Accounted	Change in Tanks Storage	Unaccounted	Difference %
Gallons(Actual)	454,800	369,670	10,000	0	75,130.00	16.5%
Gallons(Corrected)	382,032	369,670	10,000	0	2,362.00	0.6%

Miscellaneous

08/05- Collected monthly compliance bacteria sample.

08/05- Pre-chlorine pump air locked.

08/07- Reset air compressor breaker.

08/12- Collected compliance Chloride and Conductivity samples.

08/12- Installed service at Lot 10.

08/12- Took monthly well depth with well depth probe, well measured 224.4' static and 229.3' pumping.

08/12- Collected compliance TTHM/HAA5 samples.

08/14- Restock PRV 4 each.

08/23- Reset the air compressor breaker.

08/26- Reset the air compressor breaker.

08/30- For August the total backwash was 10,000.

Recommendations

- BBIC consider replacing the well pump meter with a new calibrated digital meter
- Continue to test and replace system meters as needed.