



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

For the month of July, 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 7.3%, within 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. For July, using the corrected well production, the water loss for July, as shown in the table below, was estimated to be a -0.7%, a negative number. This negative number is clearly incorrect and consequently, either this 16% correction is incorrect, there are 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: 6/24/19, to 7/31/19	Current Month Production	Last Month Production	Difference %	Last Year Production	Difference %
# of Days	37	25		31	
Total Production	545,400	271,600		514,800	
Daily Average	14,741	10,864	+27%	16,606	-12%
GPD/Home-108	136	101	+26%	154	-12%

Consumption based from: 7/01/19, to 08/01/19	Total Produced	Water Sold Meters	Backwash & Flushing Accounted	Change in Tanks Storage	Unaccounted	Difference %
Gallons(Actual)	509,800	398,532	32,504	0	78,764.00	15.4%
Gallons(Corrected)	428,232	398,532	32,504	0	(2,804.00)	-0.7%

Miscellaneous

07/01- Read system meters.

07/01- Post chlorine pump air locked.

07/05- Reset air compressor breaker.

07/08- Checked on leak at 4148 Beach.

07/08- Collected monthly compliance bacteria sample.

07/10- Fixed leak at 4148 Beach.

07/10- Reset breaker on air compressor.

07/17- Dropped off PRV at 4062 Beach that needs to be replaced.

07/19- Post chlorine pump air locked.

07/22- Reset air compressor breaker.

07/22- Post chlorine pump air locked.

07/26- Lot 10-Service install site visit.

07/31- Reset air compressor breaker.

07/31- For July the total backwash was 10,504 and total flushing was 22,000, for a total of 32,504 gallons to waste.

Recommendations

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