BWC System Report – September 2026 Generated October 25, 2026

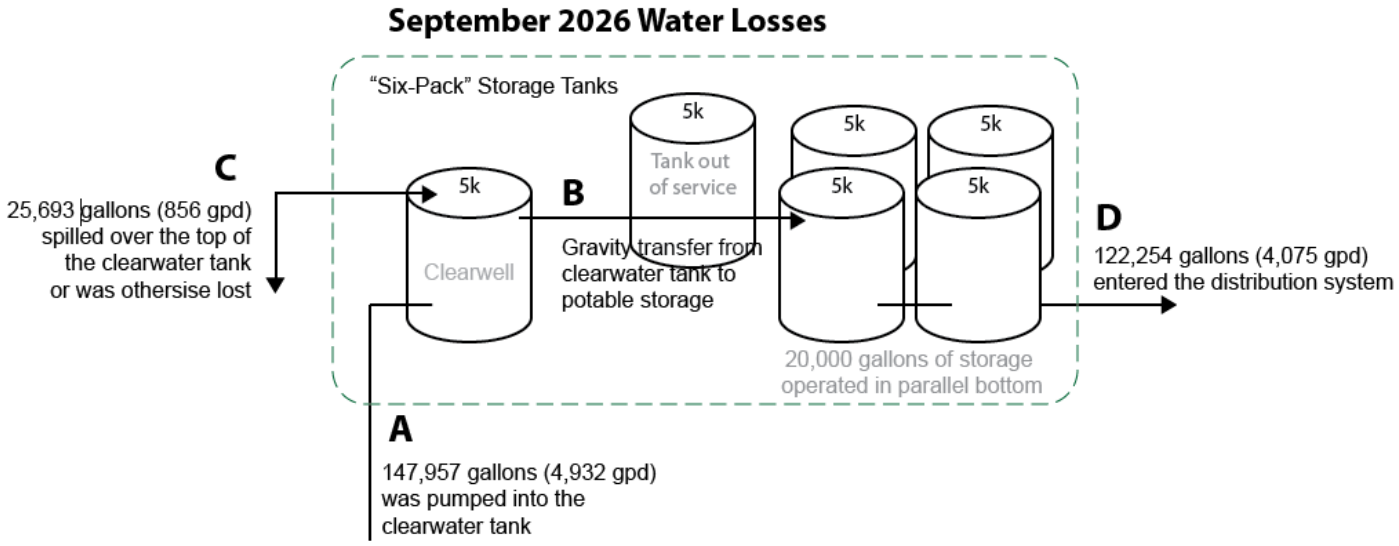
Summary

In September, the three BWC wells produced 132,292 gallons for the month, an average of 4,410 gallons per day (gpd). This was a little lower than 4,645 gpd produced in August. During the month, members consumed 120,095 gallons, an average of 4,003 gpd. With minimal leaks and adequate storage capacity to smooth out the peaks and valleys, this should have been adequate. But it was necessary to haul in nine truckloads of water; 29,700 gallons were delivered, an average delivery of 990 gpd. The monthly cost to BWC members was $3,420.

The principal reason for water hauling is that the water loss between the transfer pump/meter and the meters that feed the distribution system was substantially higher than normal. We lost a total of 25,693 gallons (856 gpd); in the previous month, August, these losses were an average of only 69 gpd. The volume of these losses is strikingly similar to the amount of water that was hauled in, suggesting that water hauling would have been zero or negligible without the losses.

The process of generating this system report identified the problem, but at about the same time our distribution operator, Reuel Miller, sent a text message with a similar finding. The problem goes back to around September 8, when Reuel noticed that the transfer pump was running more than usual because the rate of water flow through the pump had been declining. Weeks Drilling came out and replaced the pump and flow to the clearwater tank increased substantially [See A in diagram below]. Water flows by gravity from the top of the clearwater tank to the four 5,000-gallon tanks used to store potable water [See B in diagram below]. The gravity flow rate is limited by the length of pipe B, the number of elbows and fittings and the level of water (the head) above the outlet. What happened is that the rate of water delivered by the transfer pump [A] exceeded the gravity flow rate from the clearwater tank to the storage tanks [B] and as result the clearwater tank overflowed for most of the month [C], causing us to lose over 25,000 gallons of water, roughly equal to the 29,700 that had to be hauled in.

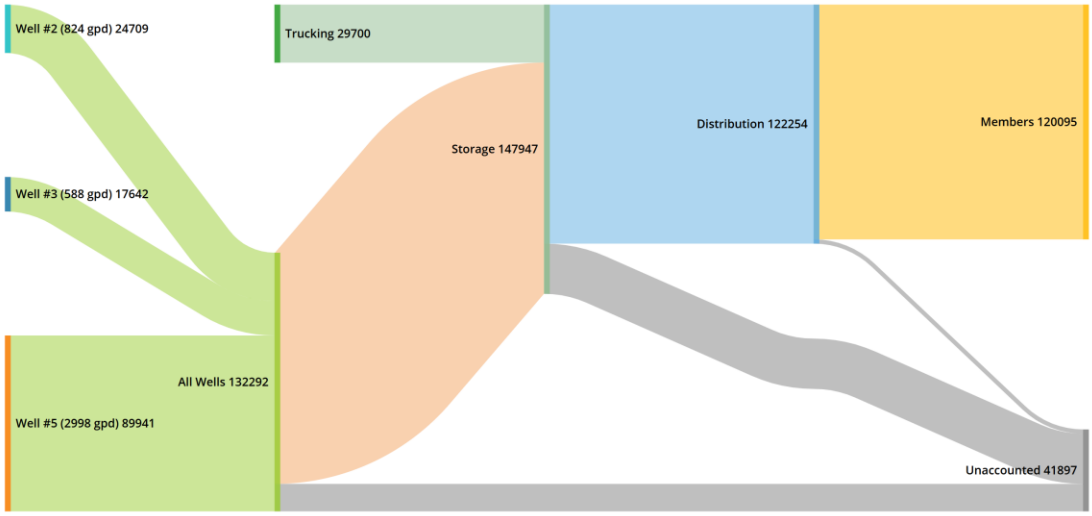
The problem was caused by an overflow that was recently added. With the previous pump's low flow, there was no overflow, but the additional gpm from the new pump added water to the clearwater tank at a faster rate than could leave the clearwater tank by gravity. The additional overflow was added because of an earlier Water Boards inspection.



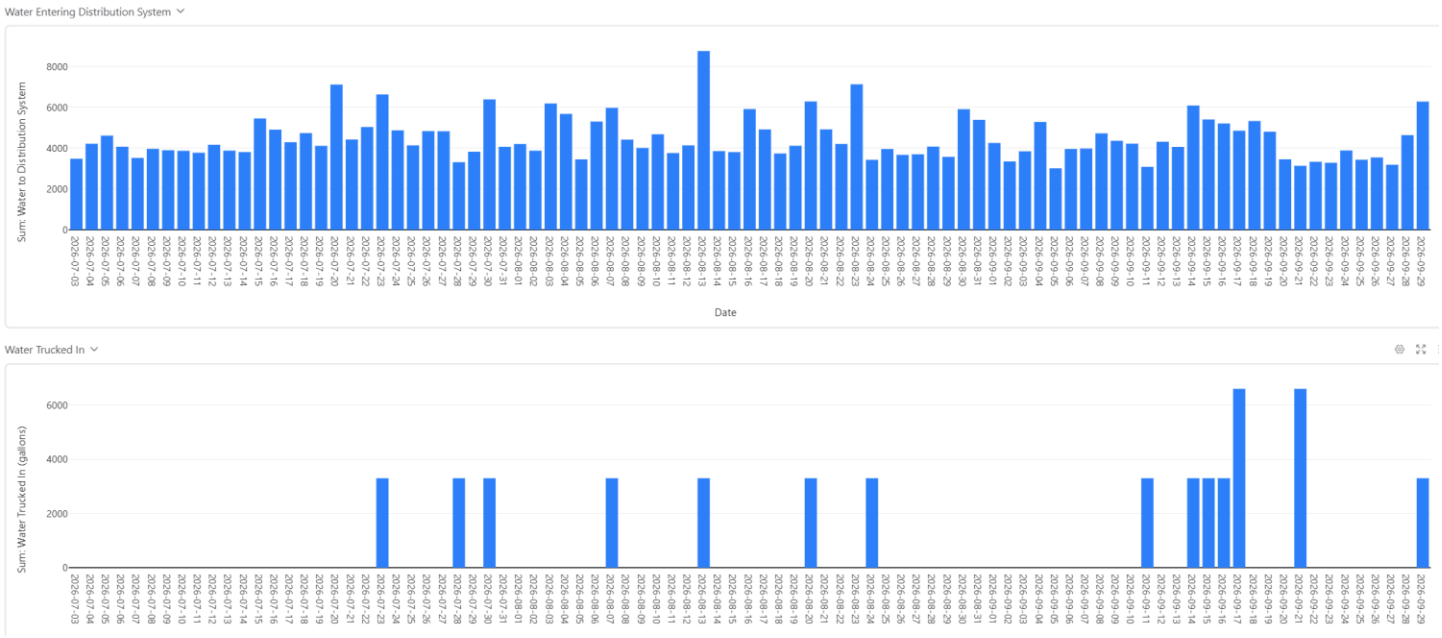
Well Production and Distribution

	Water Production		*Losses*		
	Gal/Month	*Gal/Day*	*Gal/Month*	*Gal/Day*	*Percent*
Well #2	24,709	824	-	-	15%
Well #3	17,642	588	-	-	11%
Well #5	89,941	2,998	-	-	56%
All Wells	132,292	4,410	-	-	82%
Trucking	29,700	990	-	-	18%
Replenish Storage	-	-	-	-	0%
Total Water Production	161,992	5,400	-	-	100%
Entering Storage	147,947	4,932	14,045	468	8.7%
Entering Distribution	122,254	4,075	25,693	856	16%
Known Leaks	-	-	-	-	0%
Sold to Members	120,095	4,003	2,159	72	1%
Total Losses			41,897	1,397	26%

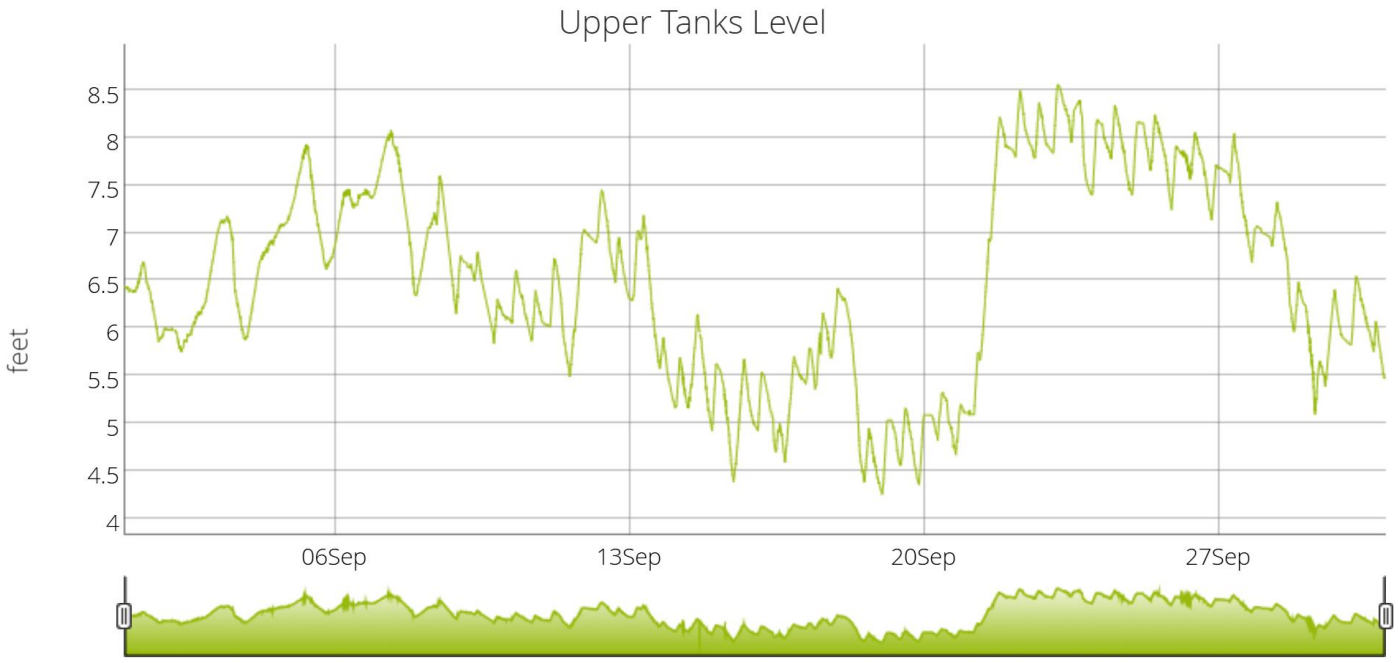
Sankey Chart



Daily Water Distribution and Water Hauling



Volume of Water in Storage Tanks *(Gallons)*



Historic Water Production compared to Member Use (Average Gallons/Day)

