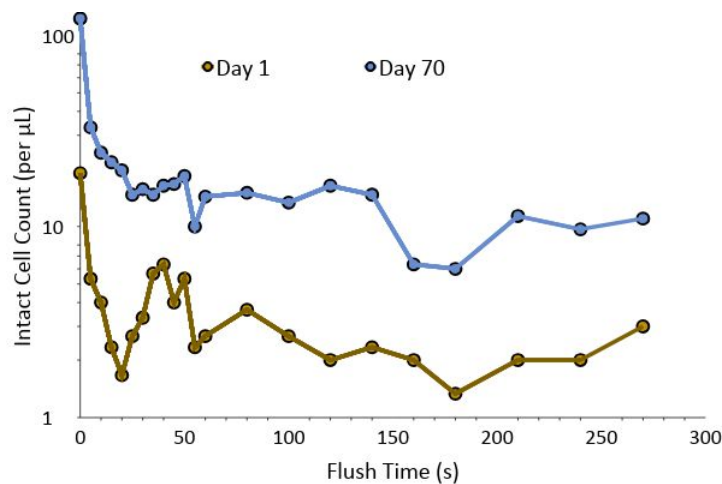


Flushing: Recommendations and Cost

Why Flush? The impact of flushing the filter cartridge on microbial counts in water leaving the filter



This figure shows us that performing a “short” filter flush for about 20 seconds reduces the number of live bacteria by over 10 times. After 8 or more hour of activity, we recommend flushing water from the pipe to the filter by bypassing the filter until the water feels very cold (about 2 or 3 minutes in most homes in Flint). We call this a “long flush.”

Note: This study completed by FACHEP.

Water can be expensive. How much does it cost to flush a filter?

Based on our calculations (and assuming monthly residential water rates of \$4.312 per 100 cubic feet for sewer and \$6.187 per 100 cubic feet for water), we estimate that the average Flint resident who flushes for 1-2 minutes after every 8 hour period of non-use will pay an additional **\$24.85** each year for flushing. 95% of Flint residents will pay **\$51.86** or less for a year’s worth of filter flushing.

How did we calculate this?

This cost is based on the following assumptions:

- Monthly residential rates of
 - \$4.312 per 100 cubic feet (ccf) for sewer
 - \$6.187 per 100 cubic feet (ccf) for water
- Average flow rate of 1 Liter / 17.7 seconds
- The average Flint home has a volume of ~5.6L (requires 1.65 minutes (or 99 seconds) of flushing)
- 95% of Flint homes have a volume of ~11.7L (requires 3.45 minutes (or 207 seconds) of flushing)
- Our calculations do not include monthly service charges or regular water use