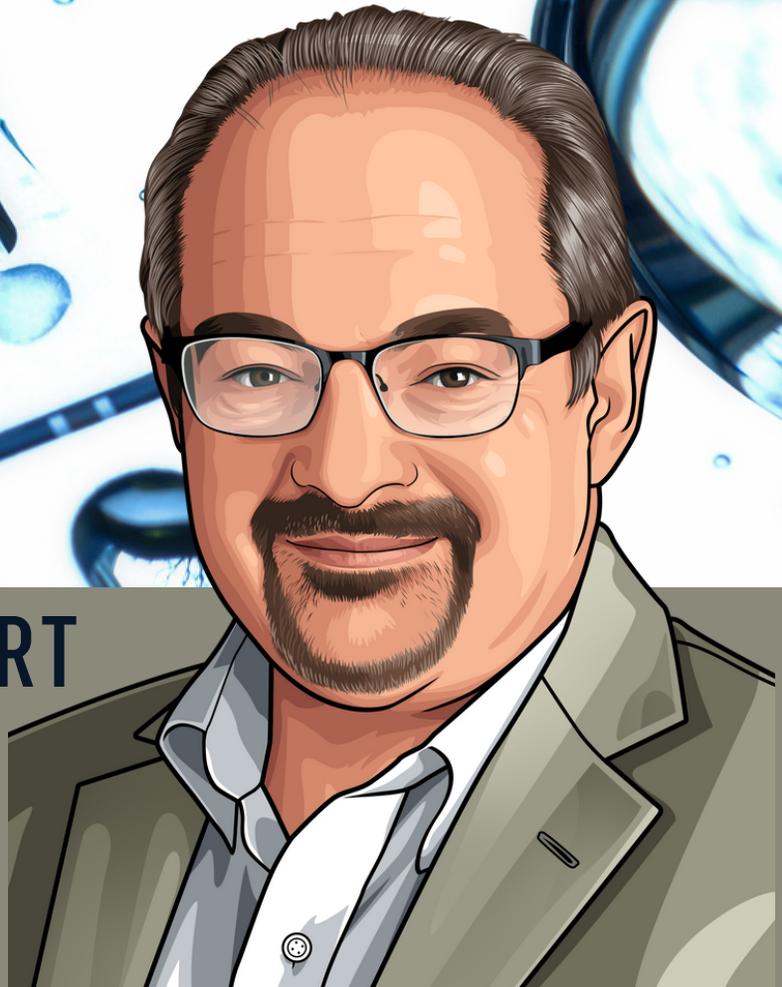


COST / BENEFIT ANALYSIS

HOW GOOD SHOULD MY WATER BE GIVEN
THAT I DON'T HAVE AN INFINITE BUDGET?

WATER QUALITY EXPERT

 **BEYOND**
CLEAN



Jonathan Wilder, Ph.D. | Managing Director
Quality Processing Resource Group, LLC

Beyond Clean Water Quality Expert:

HOW GOOD SHOULD MY WATER BE GIVEN THAT I DON'T HAVE AN INFINITE BUDGET?

Jonathan Wilder, Ph.D. | Quality Processing Resource Group, LLC

Water treatment to get good quality utility and critical water costs money. Filters, reverse osmosis/deionization (RODI) columns, and softeners have a cost of operation. Your argument for the capital for an improved water supply system (to go along with the prayer suggested last month) has to be based upon reduced instrument maintenance and replacement costs. A good water system will save you money on that side of the equation. If the return on investment meets your facility's threshold, you may just get what you ask for.

But how good is good enough? Purifying marginally-compliant utility water, as was discussed last month, will get you to a better, if not optimal situation, and may save you some money on detergent, since purer water needs less detergent. Is it good enough? It depends upon what you are starting with and where you can get to. A good water purification company will give you options with different costs.

Ideally, you treat tap water to make really pure utility water. Then use a RODI system to generate critical water from it. Installing a critical water system isn't just an issue of installing the supply. It can't be run in copper pipes because it dissolves copper and deposits it on the instruments, turning them a lovely green. You need plastic (PVC or HDPE) or stainless steel plumbing for critical water delivered from a circulating loop.

Improvements are possible with almost any budget, even close to \$0. Numbers matter. Crunch them, considering your current repair costs, and you may be able to get funded to be fully compliant. See you next month!

Have more water quality questions? Contact Jonathan at: jwilder@qprgllc.com

Beyond Clean Water Quality Expert Biography:

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MANAGING DIRECTOR
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Dr. Wilder joined MDT Corporation in 1990 as Staff R&D Scientist, tasked with executing process and product development in sterilization, disinfection and cleaning of reusable medical devices. He started H & W Technology in 1997 and allied with SMP Laboratories from Tübingen, Germany to form Quality Processing Resource Group (QPRG) in 2016. QPRG provides clients with operational, regulatory, and technical consulting in the area of sterile processing. Its services include accreditation readiness audits, technical deep dives into the issues causing wet loads and staining, and 510(k) filing support for manufacturers. He has a Ph.D. in physical chemistry from NYU and an MBA from Rochester Institute of Technology. He is a New Yorker by birth but escaped in 1986 to a postdoctoral fellowship at the Max Planck Institute for Surface Physics, the Fritz Haber Institute, in West Berlin, Germany. He is currently happily living near his children in Philadelphia, PA.

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