

Best Practice Recommendation for Risk Minimization of *Legionella*, Mycobacteria, & Other Waterborne Pathogens

An elemental force, water has the power to give life and take it. Improperly treated water is a solvent that can corrode metal and a carrier of harmful bacteria.

When it comes to the safety and health of the people in your facilities and the preservation of your systems, the best possible practice available today is a multi-barrier approach.

Our multi-barrier approach includes developing an individual risk management program, implementing a water-testing regimen, using secondary disinfection, and deploying in-line

points of delivery nano-filtration. This holistic-system strategy delivers the most robust results and significantly mitigates the risks presented by the presence of, not only, *Legionella*, but also, of Mycobacteria, and other harmful microorganisms.

Following the latest industry guidelines, observing documentation best practices, and implementing a regimen to minimize microbial risk can help mitigate other possible exposure. Our experienced Garratt-Callahan team can assist and train your personnel to develop and implement a holistic-system strategy to maintain and monitor your current water treatment program.

www.garrattcallahan.com





With regular service calls and water quality testing, Garratt-Callahan continuously monitors your systems to ensure effective Water Management Program results.

A Best Practices method is a three-step approach.

1 Develop and Implement your individual risk management program:

- Identify potential sources or conditions for the development of unwanted microbial colonies.
- Look at locations or Control Points (CP) in the system where control measures should and can be applied.
- Establish control measures to mitigate the risk of any infestation or reduce its likelihood to an acceptable level.
- Develop a verification process to monitor the system, include a schedule for observations and measurements, validation record keeping.
- Have a set of defined corrective actions and include time-frames for instances when monitoring indicates that any CP is not within control limits.
- Revisit your verification procedures to ensure that your system is optimally performing.
- By properly documenting all procedures, measurements, and keeping accurate records you may be able to mitigate other risks.

2 Secondary Disinfection utilizing chlorine dioxide:

Legionella and other waterborne pathogens such as Mycobacteria thrive in biofilms that form in domestic water systems. Biofilms are created by bacteria as a natural process in their life cycle. Chlorine dioxide (ClO₂) is a soluble gas and is able to penetrate biofilms and kill the bacteria (more effectively than chlorine).

3 Point of Delivery (POD) / barrier filtration:

Established literature has shown that 5nm (.005 micron) POD filtration is a very effective way to retain particulates in domestic water systems and compliment your water treatment program.

Discover more at www.garrattcallahan.com





[@garrattcallahan](https://www.instagram.com/garrattcallahan)

Headquarters
50 Ingold Road
Burlingame, CA 94010
(650) 697-5811
Fax (650) 692-6098

Southwest Region
13721 Welch Road
Farmers Branch, TX 75244
(972) 661-5006
Fax (972) 980-0822

Midwest Region
340 S. La Londe Avenue
Addison, IL 60101
(630) 543-4411
Fax (630) 543-8382

Southeast Region
100 Fisk Drive S.W.
Atlanta, GA 30336
(404) 691-7440
Fax (404) 691-3411

Northeast Region
306 Talmadge Road
Edison, NJ 08817
(732) 287-2200
Fax (732) 287-1439


 Water Treatment Expertise Since 1904