



Attorneys at Law

Suite 2800 1100 Peachtree St.
Atlanta GA 30309-4530
t 404 815 6500 f 404 815 6555
www.KilpatrickStockton.com

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direct dial 404 815 6330
direct fax 404 541 3366
SuRichardson@KilpatrickStockton.com

To: Christopher Serrie
World Water Solutions

From: Susan H. Richardson

Re: Conformance of GE Homespring Water Filtration Device with U.S. EPA's
Long Term 2 Enhanced Surface Water Treatment Rule

Requirements of the Long Term 2 Enhanced Surface Water Treatment Rule

The Long Term 2 Enhanced Surface Water Treatment Rule (LT2 Rule) provides protection from disease-causing microorganisms, as well as contaminants that can form during drinking water treatment.¹ The LT2 Rule, promulgated and enforced by the United States Environmental Protection Agency (EPA), applies to all public water systems, regardless of size, that obtain drinking water from either surface waters or groundwater under the influence of drinking water. The purpose of the LT2 Rule is to reduce the risk of water-borne disease associated with *Cryptosporidium* and other pathogenic microorganisms.

The LT2 Rule requires the public water system (PWS) to monitor its water sources for two years to determine if additional treatment for *Cryptosporidium* will be required.² Based on the results of the sampling, filtered water systems will be classified into one of four treatment categories (referred to under the LT2 Rule as “bins”). For those public water systems that are determined to be of higher risk, additional water treatment to further reduce (either through removal or inactivation) *Cryptosporidium* levels by 99.9 to 99.9997 %, depending on the risk level determined from the sampling . All unfiltered water systems must provide at least 99 to 99.9 % (2 or 3-log) inactivation of *Cryptosporidium* depending on results of monitoring. The deadline for implementation of the treatment requirements depends on the size of the PWS and ranges from April 1, 2012 for the largest systems to October 1, 2014 for the smallest systems.

¹ 71 Fed. Reg. 767 (January 5, 2006).

² The largest systems (>100,000 people) started monitoring in October 2006 and the smallest systems (< 10,000 people) started monitoring in 2008.

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Conformance of the Homespring Product with the LT2 Rule's *Cryptosporidium* Treatment Requirements

The Homespring product utilizes an ultrafiltration (UF) process to provide additional treatment to drinking water supplied by the municipal water supplier to multi-tenant buildings. The UF membrane achieves the *Cryptosporidium* standards of the LT2 Rule via size exclusion of all particles with a diameter greater than the pore size (> 0.02 microns). As a result, the UF membrane process can be expected to achieve *Cryptosporidium* levels in excess of the LT2 Rule requirements, regardless of the source of the water quality or the Bin classification of the drinking water sources. As a result, the use of the Homespring system will allow continued use of drinking water despite boil water or other health advisory notices.