

VIQUA™

A TROJAN TECHNOLOGIES COMPANY

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The safety of our drinking water is often taken for granted.

In recent years, however, environmentalists and the media have drawn attention to the dangers of ground water pollution and the health risks from chlorine, pesticides, organic chemicals, and various microorganisms that have been found to contaminate our public water supplies. Outbreaks of waterborne diseases are a common occurrence and have involved entire city populations, sometimes leading to serious complications and even fatalities.

The carcinogenic properties of organic chemicals as well as radionuclides are a main cause for concern. Public health authorities have in the past relied more on filtration and disinfection treatment processes rather than water monitoring to ensure the safety of drinking water, because of the complexity of laboratory analyses.

There is a need for education of consumers regarding the sources and types of water contamination, the recognition of symptoms of waterborne diseases, and the benefits of UV Disinfection.

Bacterial contamination should be suspected at times of flooding or earthquake. A sudden change in water appearance from clear to turbid might suggest contamination with the parasite, *Cryptosporidium*. In Europe the amount of flooding in the last 10 years has increased significantly and this has a huge impact on the water quality in many European countries. Countries like Germany and Sweden as example where these regions were always perceived as having high water quality standards. The truth is the quality of the water in these countries has decreased in the last 10 years, partly due to these flooding

The massive outbreak of *Cryptosporidium* infection in Milwaukee, USA in 1993 was a reflection not only of the inadequate filtration system and inefficient water quality monitoring but also resulted from the slow response of physicians to recognize and diagnose the cause of the waterborne illness in patients who sought medical help.

Cases were misdiagnosed as viral gastroenteritis or "intestinal flu" without further investigation, and the special testing procedures required for the detection of *Cryptosporidium* in stools examined for ova and parasites were not requested. The delay in diagnosis resulted in an outbreak involving nearly one half a million individuals.

A total of 96 outbreaks of waterborne disease reported to the Center for Disease Control and the Environmental Protection Agency, 1986-1992, accounted for 46,712 confirmed cases of gastrointestinal illness. The majority of cases were either of unknown cause, presumed viral in origin, or traced to *Cryptosporidium*. Other common organisms were *Salmonella*, *E. coli*, *Campylobacter*, and hepatitis A. Since the 1993 outbreak in Milwaukee, *Cryptosporidium* has outnumbered all other organisms in terms of numbers of individuals affected by waterborne illness. Chlorination will not remove *Cryptosporidium*.

PROVEN PERFORMANCE

Validated under the rigors of the USEPA UVDGM 2006 validation protocol, this product offers a compact piece of equipment for light commercial installations as well as regulated and non-regulated drinking water applications.

Being built from our state-of-the-art Pro Series platform, our higher capacity system features all of the same benefits as our existing Pro Series with more capacity and higher flow.

Our Pro 50 kills Crypto, Giardia, viruses and bacteria that can be commonly found in water.

