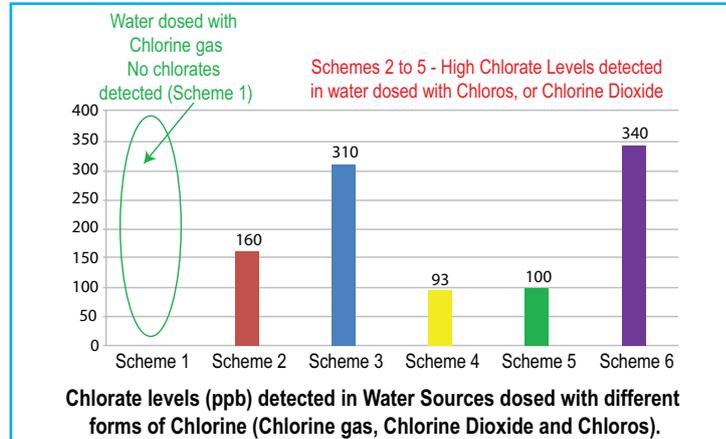


Addressing Chlorate THM concerns in food

Long-term exposure to chlorate in food is a potential health concern for children, especially those with iodine deficiency according to the European Food Safety Authority. Teagasc studies demonstrate that chlorine gas water dosing produced the lowest levels of Chlorates whereas sodium hypochlorite (Chloros) produced the highest levels. See table.

Chlorate can be present from the use of chlorinated water for food processing and the disinfection of food processing equipment. Chlorine is the most common chemical sanitizing agent used in the food and drinks industry and it is dosed in different forms.

Industry results on chlorate levels in water schemes



Chlorine gas dosing produced the lowest levels of Chlorates while Chloros (sodium hypochlorite - a liquid chlorine solution) produced the highest.

Lakeland Dairies increased demand for low Chlorate, low THM water drew them to gas chlorination on their borehole water source. They recently tasked CSL with the supply and installation of a new chlorine gas dosing system in their Cavan production site – this was to replace their chlorine dioxide dosing system to reduce their chlorate levels. CSL's extensive experience in servicing and installing this specialist equipment made us a natural fit. The system consisted of two independent dosing lines with complete automatic duty standby for both lines



CSL also supplied online chlorine monitors for each line and chlorine gas detection equipment. CSL continue to service and maintain this range of equipment. Lakelands Dairies now benefit from higher quality water with low risk due to automatic cylinder changeover and gas monitoring equipment. This has enabled them to meet their exacting customer requirements and expand their reach in an ever more stringent food sector.

CSL offer a complete installation service of Chlorine gas dosing systems as well as being experts in servicing of all specialist equipment for this process. To check if Chlorine gas dosing is right for your site, to organise a site survey, discuss recommendations on your issues as well as finding out about our complete service options, please call Jim Slattery on 086 600 8887 or email Jim at jslattery@cs ltd.ie. Visit us online at www.cs ltd.ie/chlorination



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