

# Aquarius Drilling Services

Water Bore Construction - Pump Installation - Irrigation - Water Treatment

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**Chlorine** has been used as a general disinfectant in potable water supplies for many years but the majority of users do not really understand the presence of free chlorine in water except perhaps the taste and odour.

It has been a relatively inexpensive method of disinfecting the water supply to ensure that it is fresh, potable, supply (bacteria and cyst free) to the point of use.

**Chlorine** carries quite an effective residual meaning that the chemical (includes total free and combined chlorine) can travel some distance and remain quite active to ensure that the water does not become further contaminated as it is reticulated.

**Unfortunately**, the reaction to the organic and inorganic matter is where other chemical compounds form from that reaction, called **Post Chlorine by Products**.

**Tri-halo-methanes (THM)** are a group of four chemicals that are formed along with other disinfection by products when free chlorine or other disinfectants are used to control microbial contaminants in drinking water.

The four tri-halo-methanes (THM's) are listed below:

Trichloromethane(chloroform)	$\text{CHCl}_3$
Dibromochloromethane	$\text{CHClBr}_2$
Bromodichloromethane	$\text{CHCl}_2\text{Br}$
Tribromomethane (bromoform)	$\text{CHBr}_3$

They are **Cancer Group B carcinogens** (shown to cause cancer in laboratory animals).

Tri-chloromethane (chloroform) is by far the most common in most water systems and is being phased out as a pre-cursor in the manufacture of Teflon and refrigerants.

Di-bromo-chloromethane is the most serious cancer risk and is used in a restricted manner in laboratories as a reagent.

Bromo-form is a confirmed animal [carcinogen](#). Bromoform is one of the trihalomethane's. It is the main trihalomethane produced in salt chlorinated [swimming pools](#)

Bromoform can be absorbed into the body by inhalation and through the skin. The substance is irritating to the respiratory tract, the eyes, and the skin.

The above information is accessible for anyone who wishes to research it.

## **Is there another way?**

**Yes! By applying carbon filtration to your home water use will safely remove all these chemicals so that you are never at risk of them.**

Very many water users have already chosen to do this with home filtration and at work. Most people chose this as they do not like the taste of chlorine and many other consumers have made the bottled water industry as huge as it is today for perhaps much the same reason.

Carbon filtration is very much like this. The water supply arrives at you tap or point of use, allegedly fresh and free of bacteria and cysts but it is wrapped in the protective form of chlorine and that can be likened to wrapped sandwiches taken to work and then unwrapped and eaten.

Carbon filtration simply removes the chlorine wrap. You are then no longer at risk of consuming water affected or contaminated by THM's.

## **What make us different from the others?**

Any of our House Systems we offer for the removal of Chlorine, Fluoride and other impurities are high in quality and we test the results after installation for 0 readings.

You will know the new system is working efficiently when installed not assume the system is working!!!

## **Aquarius Drilling and Water Traetment**