

ELLIOTTS IRRIGATION BORE WATER IRON FILTRATION

The mineral Iron can be a troublesome chemical in Western Australia water supplies, making up at least 5 percent of the earth's crust. Iron is one of the earth's most plentiful resources. Rainwater, as it infiltrates the soil dissolves iron, causing it to seep into aquifers that serve as sources of groundwater for our bores. Although present in drinking water, iron is often found at concentrations greater than 10 milligrams per litre (mg/L) or 10 parts per million. However, as little as 0.5 mg/l can cause water to turn a reddish brown colour causing staining and fouling of water supply systems and irrigation systems.

Elliotts Irrigation, over several years, have designed and developed a unique Iron Filtration System which specialising in waters which have high iron levels with concentrations of up to 30.0ppm. Their proven design and expertise have led to major systems being commissioned for Builders, Developers and government bodies. Such high-profile projects as Optus Oval and Perth Foreshore are a standing testimony to their effectiveness and creditability.

High Iron levels found in a large percentage of bore water throughout WA can be a huge issue to those responsible for irrigation maintenance, or project installation and development. Water with high iron concentration is not only

responsible for unsightly staining onto surrounding surfaces, but more importantly provides an environment for iron bacteria to grow which can cause breakdown of the watering system due to the fouling of pipelines, blockages of sprinklers and failure of valves. These issues greatly reduce the overall life of an irrigation system with total replacement often necessary and at great expense. Elliotts Irrigation Iron Filtration systems solve these issues, enhancing the life of new and existing irrigation systems, and importantly removing the unsightly stain, enhancing the aesthetics of the project.



Housed in a variety of enclosures, these systems can blend with any environment.

Elliotts Irrigation specialize in designing and building iron removal systems for any application. These filtration systems differ from conventional methods of iron filtration with no chemicals being required for oxidation or additional apparatus like pumps or holding tanks.

Each filter is designed to meet specific requirements from domestic to commercial, with flow rates and water analysis of the water, to be pumped, carefully considered. The filtration process involves air injection, thus commencing an oxidation process, whereby allowing filter media to trap the oxidised iron and allow the filtered water supply to the field. These filters reduce the concentration of iron in the water from levels up to 30.0mg/l down to less than 0.3mg/l.

The Filters automatically flush themselves when required with no high maintenance requirements or expensive running costs. Remote control and monitoring options are also available, using Wi-Fi technology for the filtration systems. Adjustments can be made through an iPad, mobile or computer, allowing complete "offsite" control.

For further enquiries please contact Elliotts Irrigation on 089342 0636 or email markp@elliottsirrigation.com.au or visit our website; www.elliottsirrigation.com.au

BORE WATER IRON FILTRATION UNIT



**ELLIOTTS
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GIVING WATER A HELPING HAND

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