



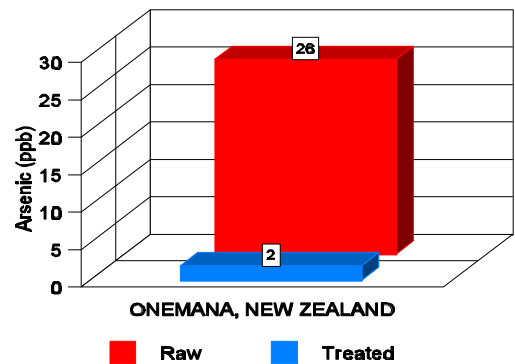
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**ARSENIC REMOVAL  
 Community of Onemana  
 Onemana, New Zealand**

**Project Description**

The community of Onemana, New Zealand has a high concentration of arsenic in its groundwater. At 26 ppb, it is more than 2 ½ times the World Health Organization recommended maximum for drinking water. In late 1998, ADI was retained to provide a solution; one which would be low cost, efficient, and simple to implement.

After bench-scale testing, ADI's MEDIA G2<sup>®</sup> technology was approved for use. The installed treatment plant, pictured above, consists of two filters, each 150 cm (60") diameter, containing MEDIA G2<sup>®</sup> arsenic adsorption media. Operation is simple: water passes downward through the filters at a rate of 22 m<sup>3</sup>/h (100 gpm), providing a 10 minute contact time for arsenic to react with, and bind to, the surface of the media particles. The entire treatment process is pressurized, so no re-pumping is required. The plant sits on a footprint of only 4 m x 2 m (13 ft x 6.5 ft). It operates virtually unattended; occasional backwashing (once every few weeks) to prevent compaction of the media, is all that is required.



The plant was completed on time and on budget. It has been in operation since March, 1999, and is providing treated water with an arsenic concentration of less than 2 ppb. MEDIA G2<sup>®</sup> is a patented product of ADI International Inc., and has been used worldwide for removal of arsenic from water.