



Running total of AES systems installed in NZ = 81

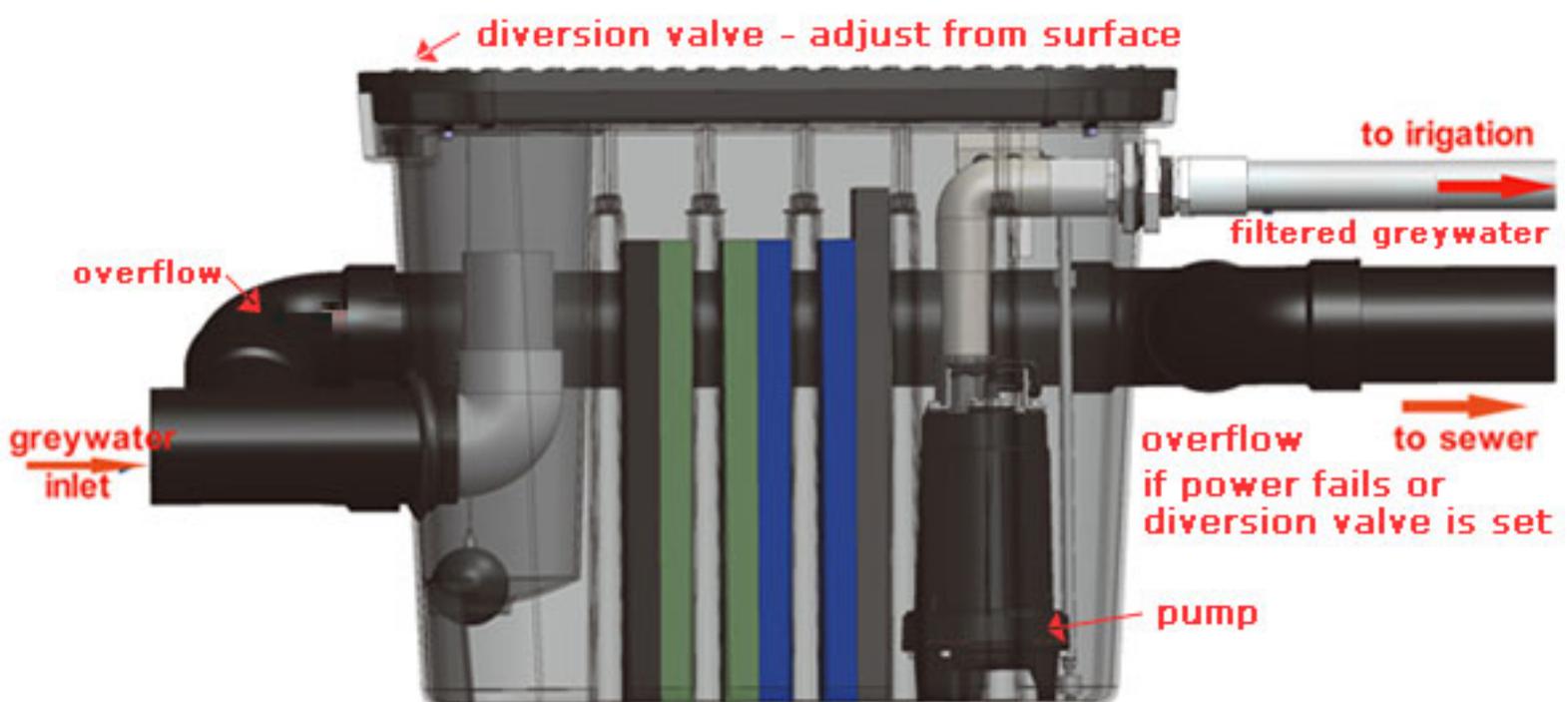
AES accepted by SAI Global

The agents for Advanced Enviro-Septic AES (Chankar Environmental Pty Ltd) based in Australia have just received StandardsMark™ Product Certification from SAI Global in Australia. SAI Global is an international company which provides product certification services; third party assurance that a product meets the specified requirements. SAI Global is part of JAS-ANZ – the Joint Accreditation System of Australia and New Zealand. Their StandardsMark™ represents reliability, quality assurance and safety.



The certification was given to AES based on a real-life onsite wastewater trial monitored by the National Association of Testing Authorities, Australia, NATA at an actual home in Queensland. Some testing programmes such as the Rotorua OSET trials take place using influent headed towards municipal wastewater plants however the influent from these sources is likely very different from that encountered at actual onsite wastewater treatment systems. This accreditation by SAI Global provides very realistic results when considering actual onsite performance using domestic derived influent. View the certificate [here](#).

Aqua2Use Greywater Recycling Units are now available from Environment Technology



These units enable the simple recycling of water from showers, basins and washing machines delivering filtered water for garden and orchard irrigation or other reuse. Greywater reuse is available at a minimum price in one convenient, easy-installed package ready for connection. A diversion valve is included to by-pass the unit for maintenance or if the power fails, automatic diversion. Maintenance if it is required involves the easy removal and replacement of filters after washing with a garden hose. Two unit sizes are available – the first for \$1084 including gst and the other, a whole

Campground installs AES



We recently delivered AES Components to Okarito on the West Coast of the South Island for the community-run campground. The AES system installation by Paul the Plumber from Franz Joseph is designed to deal with nearly 7,000 litres per day. Several other campgrounds will have AES systems installed soon. AES is ideal in this application as it can handle quick start-up after periods of relative non-use and includes a considerable buffer capacity for peak variations in daily loading.

AES goes to Glenorchy



During the same trip, Dick Lamb delivered AES to Glenorchy at the head of Lake Wakatipu for a new installation as part of an upgrade to an historic farm building. The owners looked for and found a no maintenance solution. Sand just screened from the adjacent Rees River was to be used for bedding the AES pipes.

Scotty Bamford presenting



At Mt Somers inland from Ashburton at another residential installation, Dick was interviewed by Scotty Bamford of CTV. D&L Plumbing's Brendon Lock was adding another AES installation to the 5 they have completed in the past few months. The interview along with that

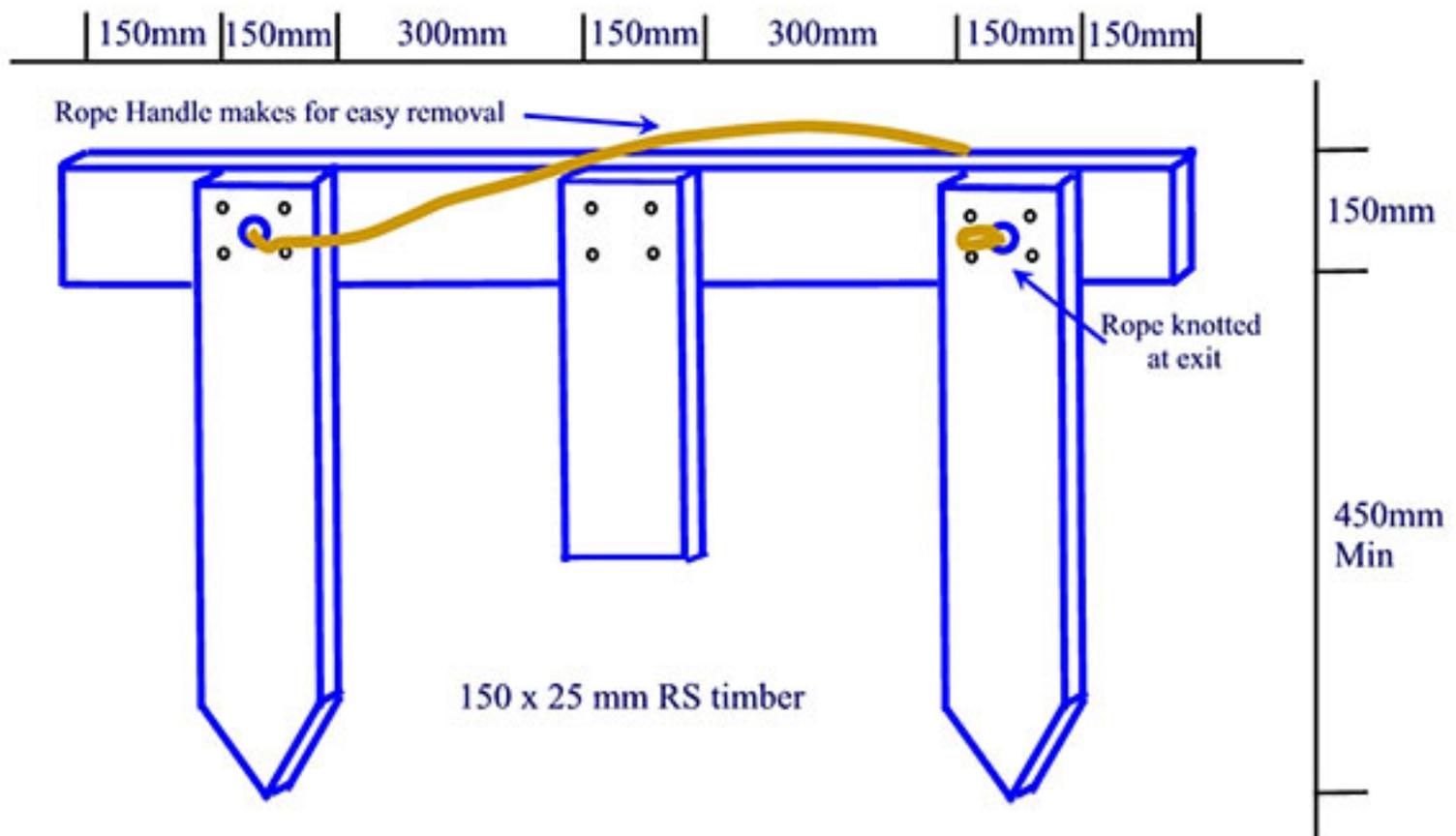
with Brendon will air in three segments of CTV's Rural NZ – Fridays at 7:30pm with repeats on Saturday at 4pm & Sunday 8pm. We'll also post clips.

Staples



In AES pipe installation care should be taken to hold the pipes down onto the prepared bed prior to placing sand on top. This will prevent pipes from jumping up and out of position as the sand is laid on them. The best way of securing AES pipes on the sand bed is to use some form of staple that will hold the pipes both laterally and vertically when sand is placed. If 150 x 25 timber is also used for the top rail, this edge of the staple will be a guide for the thickness of the sand cover. Making a rope handle makes for easy removal or repositioning by drilling a couple of spaced suitable sized holes in this top bar and looping a short length of rope between the holes. These staples are easy to make or we can supply them. Sets with 2 spaces seem to be the most versatile however we have seen versions with 4 or more spaces when a large system with many rows is in construction. [Click to enlarge & print image below](#)

Staples for AES Pipe Positioning



Australian Distributors visit NZ

Randall & Julie Crisp from Chankar Environmental visited ET in New Zealand last month. AES in Australia has made major inroads into the schools in Queensland with systems installed in Blenheim, Chelona School, Mulgildie, Nagoorin, Beneraby, Mount Murchison, Baralaba and numerous others with designs approved, awaiting installation.

Queensland National Parks have come to see the advantages of having a passive treatment no maintenance system, particularly so when solar panels get stolen from powered package plant systems. AES systems are now installed at The Barracks, Kroombit National Park, D'Aguliar National Park, Cooks Hut, 40 Mile Scrub National Park, Bunyaville Conservation Park Disabled Toilets, Moogerah Peaks National Park, Josephine Falls and Lake Elphinstone camping and recreation area.

Marlborough Sounds

Marlborough District Council has now approved AES wastewater treatment systems at two properties in the Marlborough Sounds. The Council had previously approved an AES installation in Blenheim, but these recent consents show that the MDC recognises the Advanced Secondary quality treatment provided by AES is ideal when you need to consider a sensitive natural environment like The Sounds. The Council also recognises the risk minimisation provided by AES's ability to perform without intervention or maintenance, coping with fluctuating influent volumes as is characteristic of remote holiday home installations .

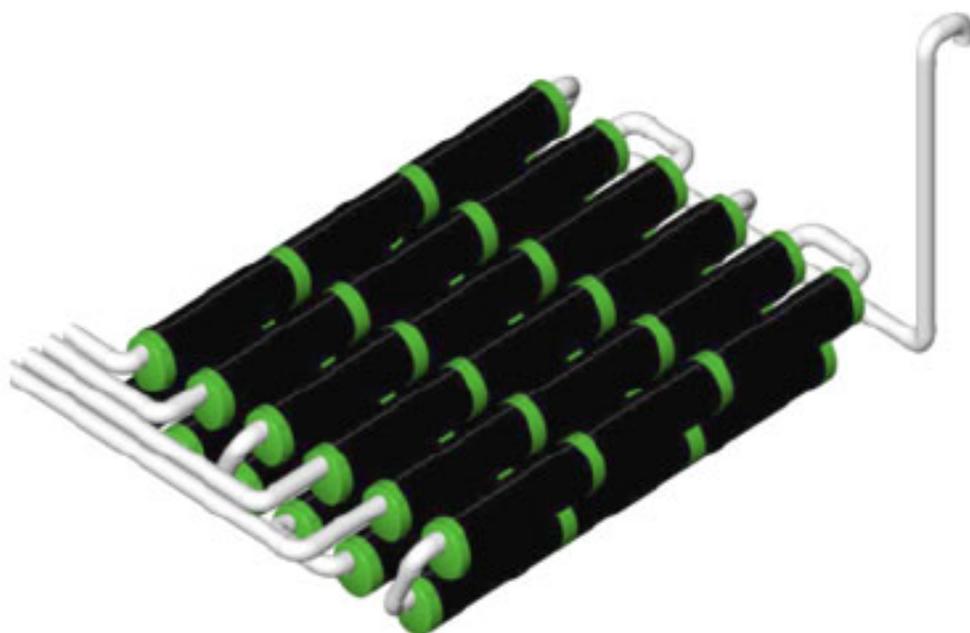


One of the best benefits of ownership of an AES system is that it has no electronic or moving parts to break down and is usually capable of self-recovery from a myriad of issues, particularly when the micro-organisms that are responsible for the treatment are somehow poisoned.

However one instance that had three people with around 118 years combined experience in the wastewater industry scratching their heads was effluent flooding out of the high vent on a relatively new AES system, like a fountain. The culprit? An Ice Cream Bean Tree (*Inga Feuilleei*). The root system was unlike any they had ever seen, completely blocking the inlet to the AES pipes, from a tree only in the ground two and a half years. And apparently in South America it can grow up to 80 metres tall!

Usually tree roots are not a problem with an AES system, although the advice that vegetation with invasive root systems should be planted at least 3 metres from the bed is a good starting position. However willow, bamboo, blackwood, figs, citrus and Ice Cream Bean trees are best kept well away.

There are a growing number of USA town councils implementing Advanced Enviro-Septic systems in larger scale Community Wastewater Treatment Schemes. These Councils are choosing to develop smaller localised wastewater treatment sites that take advantage of local topography and existing infrastructure instead of large treatment facilities at a distant location that require huge capital investment in connecting infrastructure. The benefits to tax and rate payers of reducing the cost of rising mains and ongoing operational and infrastructure costs are gaining traction among the decision makers in wastewater processes in the USA at least.



The scalability and flexibility of the AES system means there are no limitations on the size or capacity of any new system. Using double or triple layered systems can reduce the land application footprint and increase the system capacity for a considerably

lessened capital and operational cost compared to the cost of building and maintaining a traditional sewage treatment plant. If you are contemplating a large scale solution and for some reason we cannot provide the design information you require, we can put you in touch with AES Engineers in the US.

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