



Environment Technology would like to wish you a happy summer solstice, Christmas and New Year.

Holiday Season office hours

Between 23rd December and 4th January the office will be on holiday though generally contactable. We will be checking emails and are likely to answer the phone.

Staff changes



A belated introduction to Maria Koch, who has been keeping our books since October last year, inconspicuously it seems, as we don't have an up to date photo of her yet.

We would like to introduce Andy Williams, who joined us in February as Technical Adviser. Andy has a wealth of practical experience designing and building renewable energy systems; a background in mechanical engineering and experience with municipal wastewater processing, and councils in general. He has a passion for tailoring designs to suit particular sites and over the year has been digging the dirt with increasing enthusiasm as part of our associated design company, Wastewater Design Ltd's activities. He is not a person to promote a product he has doubts about, and is still with us – a very good sign.



Meanwhile, Hazel Clemens has had her sights set on further studies for a while, and has left our office and re-located to Christchurch to study for a master's degree. She is staying with wastewater, though, so is not lost to us entirely. We like to think so at least.

The rest of us – Hazel Pearson, Dick Lamb, and Sian Jones – remain unchanged.

Annual Roundup

2016 has been a busy year for Environment Technology with the number of AES systems installed in NZ continuing to increase (almost) exponentially. Last Christmas we had 125 systems in the ground – this year we are close to 250. AES hotspots continue where designers and councils are on the same page – notably Invercargill, Gore, West Coast, Ashburton, Tasman, and Waikato.

144 AES pipes have just been dispatched to Hokitika for two new wastewater treatment systems at Providence Rd Campsite, designed by Mike Copeland of Kiwi Pioneer Co. and to be installed by Craig Fearn of Jeff Evans Plumbing. It is not our largest installation in NZ to date – that title is still held by Greenwood Park holiday camp in Richmond, which has 162 pipes installed under parking and access ways.

To the 200+ designers and installers all around New Zealand we would like to thank you for your ongoing hard work and support.

Our top designers - most prolific - are Mike Copeland of Kiwi Pioneer, who recently relocated from the West Coast to Motueka, Don Moir of Ralph Moir and Associates in Southland and Mark Rounce of Rounce Project Solutions in Nelson. Out of fairness to newer designers we will also produce statistics on an annual basis – not that it is a competition, mind.

Dave Strong of Morrinsville Plumbing & Gas is our top designer and installer with 17 in the ground & David Smith of Te Anau Earthworks – 15 designed and installed. Other top installers include Brendon Lock, D&L Plumbing, Ashburton 13, our own Dick Lamb, 14 (Golden Bay, Marahau and Banks Peninsular); and Nathan Hoyle from Laser Plumbing in Gore with 11. Please feel free to send us photos of your installations – we're interested, and New Zealand just can't help but be photogenic.

Running total of AES systems installed in NZ



OSET NTP Trial 12 participation

Our big marketing effort this year and the next is AES's participation in the current 2016/17 OSET Trial 12 at Rotorua which began in October this year. We have been told many times by installers and councils that AES's successful completion of an OSET trial would make their lives much easier. Five weeks into the trial and the interim results we have received are of secondary or advanced secondary treatment quality – just like the numerous other international testing regimes AES has undergone. Please contact us as the progresses if you want to know how our system is performing.

West Coast Lagoons

Environment Technology director Dick Lamb and designer Hazel Clemens travelled to Auckland to meet with council and other wastewater suppliers regarding the West Coast Lagoons. The lagoons at Karekare, Piha, North Piha and Bethells Beach all have a history of pollution. Recent studies have shown that poorly performing septic systems are contributing to this problem. The West Coast Lagoons Septic Tank Upgrade Subsidy is a programme set up by the Waitakere Ranges Local Board to encourage homeowners to upgrade their septic systems to help address this problem.

Onuku Marae, Banks Peninsula, Waitangi Day

Environment Technology was pleased to see a smoothly operating AES system at Onuku Marae's 3 yearly Waitangi Day celebrations in February this year. The AES system is designed to receive peak loadings of 55,000 L/d over three days. The disposal field is relatively small – 2500L/d - and used in the days and weeks following events as the flow balancing tanks empty. The controller was tailor-made by N2P Controls Ltd.



Feb 2016 - Waitangi Day Celebrations



Feb 2016 – two months after installation.

Environment Technology's Directors Dick Lamb & Hazel Pearson attended the Southern Field Days at Waimumu where Nathan Hoyle of Laser Plumbing, Gore had installed an AES system to service the Field Days office, with AES components provided by ET and a septic tank provided by Harvey Tanks. The system will remain at Field Days for future events.



L-R Nathan Hoyle (Laser Plumbing, Gore); Dick Lamb & Hazel Pearson (ET directors) and Rhys Harvey (Harvey Tanks) above the AES system

Water and Wastewater Equipment, Treatment and Transport show – WWETT - February 17-20th Indianapolis, USA

Immediately following Field Days in Waimumu, Dick Lamb flew to Indianapolis for the annual WWETT show which expected 10,000 customers from more than 53 countries. There were over 600 exhibiting companies and 50,168 square metres of exhibition space. AES creator and manufacturer David Presby attended along with 22 staff members. "It was a great opportunity to meet, not just the Presby team from around the US, but the Australian distributors too," says Lamb.



Presby Environmental's team at WWETT

To see a recent video on AES created by our Australian counterparts please [click here](#)

NZ Land Treatment Collective Conference

Hazel Clemens and Andy Williams attended the Land Treatment Collective conference in Gisborne in March along with around 70 suppliers, designers, Council Staff and Iwi representatives from around the country to discuss and learn from each other around the area of Community Engagement and Land Treatment.

Inside our own AES system

And finally, as a reward for hanging in to the end of this newsletter, here's a photo of the inlet to the first row of the 200L/d AES system installed at our office at 14 Onekaka Ironworks Road. This has been in use for 11 months. We are trialling recirculating different percentages of the effluent back through the septic tank to increase Nitrogen reduction.



November 2016

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Back to the Future Wastewater Treatment



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