WaterFlow

Bringing Clarity to Wastewater

NATURALFLOW™



Powered by nature

Passive worm-based sewage systems for eco-conscious living

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ABOUT WATERFLOW

YOUR DEDICATED PARTNER IN **WASTEWATER SOLUTIONS**

We help Kiwis to choose and use the right sewage and wastewater systems for a cleaner New Zealand.

We manufacture, supply, install and design onsite wastewater systems (we even support you through council consent processes). From rural residential homes to housing developments, we know that every site is unique. Our wide range of wastewater products means we can design a system that's fit for purpose for every property and project.

With a deep commitment to advocating for the responsible treatment of wastewater, we bring clarity to a complex field, ensuring that wastewater is treated effectively for the benefit of our shared backyard, the environment. Our team of wastewater experts is here to simplify the process, sharing our knowledge generously and helping you discover the right wastewater solution for your project.

We're not just about systems, we're about stewardship. Not just for now, but for generations to come. Water, it's one of our most valuable but most wasted resources. When it comes to a cleaner New Zealand, we think protecting our water supply is a pretty good place to start.



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BENEFITS

WHY CHOOSE **NATURALFLOW?**

NaturalFlow; revolutionising domestic water waste and sewage treatment processes in New Zealand. Nature is one huge recycling mechanism. The NaturalFlow system utilises these recycling mechanisms of nature, by harnessing its forces that have been quietly working together for thousands of years, to break down and decompose waste all around us, and positions them in an enclosed eco-system module that simulates the natural forest floor. It will treat and break down your wastewater – just as nature does – and then reintroduce it into the environment when it is perfectly safe to do so.

Passive, power-free treatment

NaturalFlow systems offer an eco-smart twist on sewage treatment. Harnessing the humble worm to chew through waste, no electricity is need in the treatment process. On flat sites NaturalFlow uses 90% less power than standard sewage systems. On sites with an adequate slope, absolutely no power is needed.





Ready for the Rush

NaturalFlow systems are built for life's surges. Your worm colony naturally adapts to the ebbs and flows of household water usage, ensuring that your system operates smoothly and remains odourless, even at peak times. This robust ecosystem deftly handles shock-loading so an influx of guests never overwhelms your backyard's tranquillity, and naturally slows down during quiet periods - a great solution for holiday homes or any situation where intermittent usage is likely.

Kind to the environment and your wallet

The natural choice for long-term value. NaturalFlow systems are designed for lower running costs and longevity, using natural power-free aerating processes – as opposed to mechanical pumps. If your property has adequate slope, the treated wastewater can be gravity-fed to the land application field, meaning the disposal process can be power-free too.With simple, straightforward installation and operation, NaturalFlow is cost effective from day one. A great choice for those wanting to minimise power consumption and reduce their impact on the environment.



Nature's Way: Let the worms do the work

NaturalFlow's simple design leaves nature to do what it does best. A self-sustaining ecosystem of worms and other organisms breaks down waste naturally, with no interference and does not use no noisy mechanics or high-tech electronics. The resulting effluent is odourless, and with the system housed beneath the ground it will become completely hidden by plant life soon after installation. Go on, let nature do the dirty work.

Set it. Forget it. Easy

Our systems, inspired by nature's simplicity, work silently in the background. These low-maintenance, odourless wonders dodge the dreaded suck-outs and keep your backyard fresh for you to enjoy.

In wastewater, it's the solids, grease and grit of wastewater that is the major cause of system failures. NaturalFlow solves this problem from the very start, by separating the black water for special attention through the Wormorator® module which reduces the solids by up to 95%. By removing and reducing these pollutants at the very start of the process, the downstream treatment of the liquid content is plain sailing. This dramatically reduces on-going system maintenance to virtually zero, and ensures the system will continue to operate at peak performance for years.

Wastemaster friendly

The NaturalFlow system accommodates and works with all of today's conveniences such as conventional toilets and waste-master units from the kitchen.





Naturally quiet and odour-free

The NaturalFlow system uses completely natural processes that mimic the forest floor. No noisy aerators, and no wafting septic smells. Your backyard remains peacefully tranquil, free of unwanted sounds and smells.

Made for your backyard

NaturalFlow systems are modular, allowing us to build a system that's just right for your needs. From primary through to secondary treatment, our wastewater experts design a solution for your specific site.



HOW IT WORKS

NATURALFLOW
WASTEWATER TREATMENT



Grey water from laundry, baths, showers, hand basins

Black water from toilets and kitchen sinks

Wormorator Vermiculture module

NaturalFlow Treatment process

NaturalFlow Treatment process

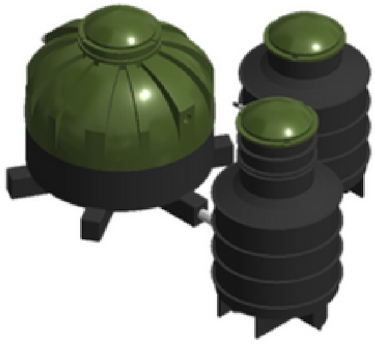
Treated water blended together for final disposal into the soil as per Council Regulations





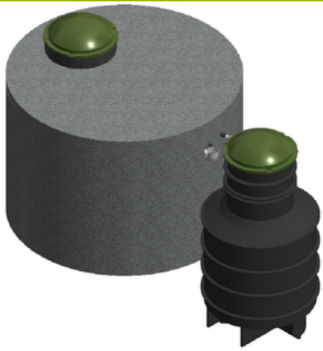
NF 8000

Capacity: Total daily flow volume 1600L
Type: Vermifiltration
Treatment level: Advanced Primary
Material: UV Treated Plastic
Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



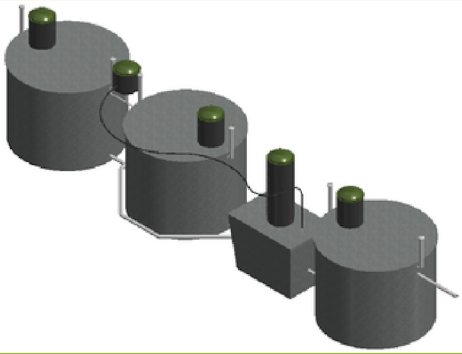
NF 11000

Capacity: Total daily flow volume 1600L
Type: Vermifiltration
Treatment level: Secondary
Material: UV Treated Plastic
Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



NF CS50

Capacity: Total daily flow volume 5000L
Type: Vermifiltration
Treatment level: Advanced Primary
Material: Concrete
Application: 3-8 bedroom houses, sleepouts, baches and holiday homes, marae, schools, small commercial facilities



NF CSX120

Capacity: Total daily flow volume 12000L
Type: Vermifiltration
Treatment level: Secondary
Material: Concrete
Application: Commercial, Marae, Community facilities



NF TINY HOME

Capacity: Total daily flow volume 440L
Type: Vermifiltration
Treatment level: Advanced Primary
Material: UV Treated Plastic
Application: Off-grid, tiny homes, sheds with minimal water usage

OUR SYSTEMS

FREQUENTLY ASKED **QUESTIONS**

How does NaturalFlow work?
With this system your plumbing must be separated into black water (toilets and kitchen sink) and grey water (laundry, showers, basins etc.). Black water usually accounts for about 98% of the solids in your wastewater, but is only about one third of the total wastewater volume. The other two thirds (grey water) have very little solid matter. Black water passes into the WORMORATOR® which is an enclosed ecosystem, mimicking the forest floor, which filters out and treats the solids using filter media and natural vermiculture processes. Grey water is treated via natural filtration. The cleaned black and grey water are then combined for final disposal into the soil as per council regulations. This natural method of wastewater treatment reduces solids by up to 95%, which is why this system does not require pumpouts (unlike a conventional septic tank where solids remain in the tank and settle over time).

Does it use electricity?
No, NaturalFlow systems use natural aeration processes and do not require an external power source in the treatment process. In fact, if your site's slope is adequate you do not require any power whatsoever! If your site is very flat, the disposal process may require a small pump.

Can I re-use the grey water?
Yes, after filtration this water can then be used for surface or sub-surface irrigation eg; watering trees, hedges, plantings, orchards etc.

Does it require a soakage field?
Yes, you will need either driplines or a soakage field, or a combination of both. These options depend on which NaturalFlow model you have, soil types, and on council requirements for the area. Our team will help choose the right set up for your property.

Do Councils approve NaturalFlow?
Yes, WaterFlow has worked with district and regional councils nationally to gain consent status acceptance for most situations. WaterFlow will work through the requirements and consents that your council requires. If you are in an area which NaturalFlow is not appropriate for, our WaterFlow team will let you know before you start your project and recommend another treatment system from our range.

What's required for Council Consent?
In most cases an Onsite Disposal System will be a permitted activity and all the Council will require is a site assessment, which can be done by your NaturalFlow installer.

How far away from buildings does the system need to be installed?
Your NaturalFlow system can be installed at any distance greater than 3 metres from the building, under permitted activity.

What is the difference between Advanced Primary and Secondary Level Treatment?
The treatment levels categorise levels of purification of wastewater achieved by different systems, with Secondary being more pure than the Advanced Primary level.

What maintenance is needed?
Maintenance is very simple and mainly involves only visual checks on the system by the homeowner. WaterFlow also recommends a yearly visit from an installer and some councils are now starting to insist on this. Maintenance is set out in a homeowner's manual

How do I look after the worm colony?
You can help maintain an effective healthy wastewater system on your site by ensuring no toxic or high chlorine chemicals are put down the kitchen sink or toilets. Don't flush dental floss, feminine hygiene products, diapers, cotton swabs, cigarette butts, cat litter, or other kitchen and bathroom items that could clog and potentially damage your system. Flushing household chemicals, gasoline, oil, pesticides, antifreeze, or paint can also stress or destroy the ecosystem in your NaturalFlow tank, and could also contaminate surface or ground water. A good practice guide will be provided with your new NaturalFlow System.

Do antibiotics or sickness have any effect on the worm colony?
No, antibiotics as used in the home through periods of sickness have proven to have no adverse impact on the worm colony.

Are the worms affected by temperature?
No, the Tiger Worms are bred in Cromwell, Central Otago, where they have extreme temperatures ranging between -7° to 38°c. They are well adapted for all of New Zealand's harshest conditions.

What if the worms die?
This would be very unusual and would only result from prolonged flooding or toxic chemicals. In this unlikley event, the problem will be easily identifiable through visual checks, If the worms die, the Wormorator can simply be reseeded with Tiger Worms.

Can I install the NaturalFlow system myself?
NaturalFlow systems, like all sewage systems, must be installed by a Registered Drainlayer. Preferably, your system should be installed by an accredited NaturalFlow installer.

Can I use my own Drain Layer?
Yes, although the advantage of using an accredited installer is they will provide technical support before, during and after installation.

Availability?
Systems are usually held in stock and ready for dispatch from the WaterFlow yard.

TESTIMONIALS

We have lived with a NaturalFlow waste water system now for 4 years. We chose NaturalFlow because we wanted an environmentally friendly system that didn't require expensive, on-going maintenance. Our system has delivered exactly what we wanted. We have a system which requires no electricity, no pumps, makes no noise and best of all only requires us to lift the lid and check the worms when we feel like it. About 2 years ago, we discovered that our original Wormorator had moved because of hydrostatic pressure caused by unusual ground movement and wasn't working as well as it should (this was no fault of the product). We contacted NaturalFlow and they supplied a replacement upgraded tank at no cost with no questions asked. The measure of a company is how well it stands behind its product when something goes wrong and NaturalFlow certainly stood behind their product! We have been using this tank now for 2 years and have not had a single problem. I can't recommend NaturalFlow enough. If you want a simple, low cost, environmentally friendly sewage treatment system you really can't go wrong with NaturalFlow!

Adam & Karen

Back in 2008 along with our building projects we decided to go for the NaturalFlow sewage system as it didn't require any power, on our site. We have been very impressed with the performance of this system, with very little maintenance, it basically looks after itself. Without hesitation I would recommend the NaturalFlow system to anyone as I have had no difficulties with product or the friendly team at Waterflow NZ Ltd.

M. Vincent

In 2007 we were in the planning stage for our new house at Hahei. This also included looking into waste water systems. A friend of ours who had not long finished a new house in Pirongia had installed NaturalFlow System and he was very impressed with it. However they were in the country and on sloping land. Our site is in the residential area of Hahei and being flat, and on the flood plain area we knew we had to get the right type of unit. After intensive investigation we choose the NaturalFlow System. The reasons were:

1. The unit could be installed mainly above ground, this being needed because of flooding. We beautified the area by building raised garden around it on three sides the fourth side is the deck from the house. Hence we needed a unit that wasn't going to give us any odour.
2. The run off due to the height of the unit then could go out at ground level with a raised grassed mound over it.
3. It was the lowest power required system we could find and only needing power to pump a tank of black water out to the evaporation field very occasionally and this was only needed due to our very flat area.
4. Also only having the black water go through the worm tank made a lot of sense to me.

The unit has worked without a hitch since the day we started using it now over two years ago. Any queries we have had have been answered by NaturalFlow Systems very quick and efficiently. I would highly recommend this system.

R.S. Allan





GreenBuild

Independently reviewed according to Greenstar and Homestar efficiency objectives, and will contribute points towards your GreenBuild project.

No site too difficult

With only light machinery required, the modular design of the NaturalFlow system makes it a perfect fit for steep, low soakage and difficult to get to sites. We work hard to look after our shared backyard, even when it means tackling tough conditions or reaching remote locations.









NEW ZEALAND MADE ®

Naturalflow
Power Free Wastewater Treatment Systems
Product Licence ID 121239



WaterFlow
Bringing Clarity to Wastewater

Our team of wastewater are experts are here to help.
Let's see if NaturalFlow could be right for your backyard.

GET STARTED WITH FREE SITE ASSESSMENT

0800 628 356
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NATURALFLOW™