

WHYTE

Public Relations

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(Attn media including dairy, farming, primary production and water and waste water media, Australia and New Zealand.)

Cost-efficient bolted steel tanks meet environmental and storage challenges facing dairy producers



Advanced water and waste water tank technologies designed to meet challenges facing the dairy and primary processing industries were introduced by the Tasman Tank Company at the recent Effluent Expo in Hamilton New Zealand, organised by Waikato Regional Council and sponsored by DairyNZ.

Tasman Tank Co's lined circular heavy duty bolted tank designs are part of a range extending up to 20 megalitres that has already been proven in applications requiring long-term, leak-free performance to avoid groundwater contamination.

Included in the Expo display was an on-farm effluent tank specifically designed for the dairy industry, available in standard sizes from 300m³ to 4000m³ with flexible polyethylene (LLDPE) containment liner or other liners for particular purposes. The tank, with a 15-year warranty and durability and structural design life of 25/50 years, eliminates the need for large concrete slabs, which may crack and leak over time.

Tasman Tank Co's broader range of durable, cost-efficient and effective tanks for broader processing plant applications facilitate recycling processes and provide high contents purity for zero discharge and anaerobic processes that are increasingly prevalent in processing industries, such as generating green energy from waste.

The tank technologies shown at the Effluent Expo on February 28 - and at events at Waimumu and Christchurch earlier in the month - are designed to provide a cost-efficient solution to challenges facing the dairy industry in both New Zealand and Australia as producers and processors begin to move away from large inground ponds.

Another factor commonly not considered by farmers is the loss of productive land to storage ponds. Unlike inground ponds, which are often located in the best soil to reduce excavation costs, the Tasman solution can be located on the least productive land available," said Tasman Tank Co General Manager Mr Jason McLauchlan.

Large diameter, low profile Tasman tanks - which can be speedily erected on-site by Tasman Tanks' construction teams - are ideal as a cost-efficient alternative to such ponds and to above-ground concrete tanks.

Robust Tasman Tank Co technologies shown at Hamilton include designs that performed exceptionally well during the earthquakes in Christchurch, where Tasman Tanks is expanding to meet demand from urban, rural and local government customers concerned about cost-efficiency and longevity.

"Increasingly the dairy and processing industries are appreciating that protection of groundwater resources and safeguarding of aquifers is a key environmental responsibility," said Mr McLauchlan.

When considering options for effluent storage, Mr McLauchlan warned that seismic design must be considered.

“From a seismic engineering perspective, we at Tasman Tank Co have increased our design parameters fivefold for considerably enhanced protection. On-farm storage only requires Importance Level One consideration, whereas we have taken our design to Level Two. This increases seismic design performance from annual probability of 1:100 to a 1:500 event”.

“Both the industry and legislators in New Zealand and Australia are well aware of potential issues created by dairy effluent, which, for example, has significant levels of nitrate with the potential to contaminate groundwater.” he said.

Sophisticated processing operations are also increasingly involved in zero discharge applications, such as biogas capture, anaerobic and aerobic process, and ultra filtration.

Features of Tasman Tank Co tanks include:

** More than two decade’s experience in designing, fabricating and constructing storage solutions. Tasman Tank Co’s galvanised steel, bolted, modular products are fully engineered and are recognised as industry leaders in many fields including Dairy Plants (Fonterra, Synlait Milk, Open Country Dairy, Westland Dairy and Marika Dairy), wineries, town water, municipal sewerage, mining and fire protection.*

** Proven speedy erection in applications requiring high environmental standards and zero discharge applications. The Tasman Tank Co builds more than 200 large industrial tanks a year, in applications including food and beverage, municipal, process, desalination and water and waste water, recycling and zero discharge applications.*

** Large diameter, low profile tanks engineered for optimum speed of construction and stability in service, with leak detection pipes where required, and floating covers. Tanks may be double lined with primary liners specified according to environmental requirements of particular sites, while secondary leak containment liners rest on a geotextile cushion layer on graded earthen floors.*

** Design and construction experience extending from on-site assessment, design specification, consent applications and safe construction in compliance with OH and S regulations. Additional protection against seismic hazards and climatic factors where required, including conformity with Australian/New Zealand Standards 1170.2:2002 relating to structural design actions – wind actions, including cyclonic loads.*

** Reduced on-site time. Bolted steel tanks utilize off-site prefabrication and modularization, reducing on-site time and exposing projects to fewer potential interruptions during construction, including weather interruptions.*

** Tasman Tank Co employs the globally recognized Tank Connection technology, which delivers the best bolted water containment systems available anywhere, with optimum performance for environmental protection of contents and surrounding areas, potable water, industrial liquids, waste water, effluent, raw water, demineralised water, process water and anaerobic digesters.*

Tasman Tank Co is a recognised leader in the quality tank building industry, with in-house design, manufacture and installation expertise for prompt and professional performance. Each Tasman Tank is certified to all relevant codes, with independent engineers providing verification of specifications and performance.

The company provides cost-effective storage solution in capacities from kilolitres (KL) to 30 megalitres (ML). Tasman Tank Co also specializes in turnkey projects and service and refurbishment work through its dedicated Service and Refurbishment Division

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