

WATERMARK APARTMENTS DEVELOPMENT TAUPO

WATER MANAGEMENT

Product: VersiTanks, Bidim Geotextile

Problem

The building site for the new apartment complex was positioned next to the start of the Waikato river which flows out of Lake Taupo. The large "hard surface" runoff areas, both roof and concrete paved for stormwater catchment had to be managed in order to meet local council requirements. On a tight building site with limited controlled discharge, meant limited space was available for normal stormwater systems to cope with the expected flows.

Solution

This project designed by multi award winning NZ architects - Ashton Mitchell Architects was originally specified to have large concrete underground stormwater tanks to cope with the expected high water flows with the option to discharge across Maori land and into the local waterways.

Due to the restricted site access, expected high costs and placement practicalities for the original system; VersiTanks proved to be a better option due to their lightweight versatility and reduced labour and handling costs.

Using VersiTanks modular flexibility allowed the engineer and Aspect Environmental Lining Ltd to provide an innovative design idea and allowed the developer to conform with ease to the site conditions and meet the stormwater requirements and collection.

Using VersiTanks (made from 100% recycled material) allowed all site runoff to be held and managed on site before placing excess strain on existing council infrastructure or the local environment. This multi-apartment complex was completed allowing trades to achieve a high standard while meeting local Iwi & council requirements for a better environmentally friendly application in this beautiful part of the country.

The VersiTank systems allow for several application design options from soakaway designs to detention or possible water reuse for almost any site application.

Client:

WATERMARK DEVELOPMENTS

Lining Contractor:

ASPECT ENVIRONMENTAL LINING LTD

Consultant:

TONKIN & TAYLOR

Product used:

VERSITANK 840, BIDIM A29

Construction Date:

JUNE 2008



Placement of VersiTanks along the Waikato river Date: June 2008



Waterproofing of VersiTanks with HDPE liner Date: June 2008



Completed apartment complex Date: August 2009

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Quality System AS/NZS ISO 9001:2000

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