Filterra® Bioscape

📍 Station Bay, Lake Tekapo

SPECIFIER

Davis Ogilvie

CLIENT

Station Bay,
Covington Group

Station Bay is a boutique residential subdivision just outside the Lake Tekapo township, developed by Covington Group. Stringent water quality requirements were set by ECAN for this high-profile development. The team at Davis Ogilvie, Timaru, were tasked with the stormwater management design for the 5.1-hectare the first stage of the development.

Due to the proximity of the lake, a green infrastructure solution was considered essential. Davis Ogilvie approached Stormwater360 to explore treatment options, and whether a Filterra® Bioscape would provide benefits over a conventional rain garden design. Stormwater360 worked together with all parties from design to installation to ensure the highest quality standards throughout the whole process.

Biological treatment to remove contaminants:

· The designed Filterra® Bioscape footprint of 165m² is approximately 1/8th of the size of the conventional system required to treat the same catchment area (rain garden footprint approx. 1,280m²). Minimising the footprint allowed for an additional 3 lots to be developed, and decreased the time and costs for maintenance.

· Using pre-treatment upstream of a filtration device in a treatment train approach is considered best practice. A pre-treatment device will remove most of the coarser sediment and gross pollutants, ensuring the performance and maintenance frequencies of the filtration device are optimised. Two Cascade Separator™ devices were used to provide upstream pretreatment for the Filterra® Bioscape.

· The Cascade Separator™/Filterra® Bioscape treatment train should ensure this large development does not impact the pristine nature of Lake Tekapo.

TREATMENT SOLUTIONS UTILIZED:

165m² Filterra® Bioscape

Cascade Separator™

ENHANCED TREATMENT PERFORMANCE

$1{,}280m^2$

Conventional system footprint.

$165m^2$

Filterra® Bioscape footprint.

"Stormwater360 delivered a truly outstanding solution for the protection of the local water environment"

Jonathan Speedy
Development Manager

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