

Filterra® Bioscape

Ōmokoroa

SPECIFIER:

S&L Consultants,
Tauranga

CLIENT:

Private Development
Company

CONTRACTOR:

HEB Construction,
Tauranga



The Filterra® Bioscape at the Ōmokoroa new housing development is nestled strategically at the bottom of the subdivision to treat stormwater runoff from the entire subdivision. With a focus on preserving water quality for the Tauranga Harbour, a vital ecosystem for swimming, fishing, and wildlife, this custom-designed Filterra® Bioscape is a game-changer.

We work closely with the consulting engineers, as each Filterra® Bioscape is tailored to site-specific needs, offering a remarkably small footprint compared to alternative solutions. The high infiltration rate efficiently processes water, allowing for a reduced device footprint. This opens up valuable land for various other uses.

TREATMENT SOLUTIONS UTILIZED:

120m² Filterra® Bioscape

Cascade Separator™

“We chose the Bioscape as a future solution as I think it’s a good example of improving on a large rain garden design. I would recommend this as a good solution...it has solved our problems on the site. It got us out of a hole, it got through the consent process both with the regional council and Western Bay”

Barry Pearson – Senior Engineer, S&L

BENEFITS OF THE FILTERRA® BIOSCAPE FOR THIS SITE:

- The Filterra® Bioscape was used because there is not enough available land to install a conventional treatment system.
- The Filterra® Bioscape can achieve the required treatment in a small footprint and can fit within the restricted available land.
- Despite its compact size of 120m², the Filterra® Bioscape impressively treats total catchment of 4.36 Hectares at a rapid rate of 77L/second. In comparison, a traditional rain garden would require 650m² to achieve similar results.
- The system was installed within the footprint of the restored sedimentation pond used during construction. Components from the construction stage were able to be reused and retrofitted for the Filterra® Bioscape system, reducing construction cost, and construction time.

TARGET CONTAMINANTS AND MAINTENANCE:

Removal of heavy metals and contaminants from hard surfaces, such as driveways and roads. A Cascade Separator™ tackles larger debris, while the Filterra® Bioscape utilizes a biological process. The media and plants absorb contaminants, nourishing the plants and purifying the water before it flows into the under-drain and out into the waterways.



There is reduced maintenance as only the mulch needs to be replaced every 6-12 months, the addition of the Cascade Separator™ decreases sediment load and increases the maintenance period. The Filterra® Bioscape also increases biodiversity by utilising native plant species and lowers costs from the smaller footprint as it requires less earthworks and maintenance.

