

Nelson City Council, Maitai Valley

Maitai Valley Manhole Rises

Sika@Work



Project description

The Maitai Valley Manhole Risers project formed part of the new wastewater outfall pipeline infrastructure supporting the Maitai Valley subdivision extension in Nelson. The works involved the construction and installation of manhole risers along the wastewater network, providing critical access points for inspection, maintenance, and future operation of the pipeline system.

Project facts

Project name	Nelson City Council, Maitai Valley Manhole Risers
Location	Maitai Valley - Nelson
Year	2026
Project Size	Approximately 40 m²
Product	Sikagard® P-770 Sikagard® M-790

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Project requirements

The secondary containment manhole risers that formed part of the new wastewater outfall pipeline required protection against potential chemical spills.

Due to the highly corrosive nature of the stored chemicals, including Ferric Chloride (42% concentration) and Ferrous Chloride (29% concentration), a robust chemical-resistant coating system was required to protect the concrete structures from chemical attack, ensuring long-term durability.

Sika solutions

Sikagard®-7000 CR is a high-performance concrete protection system designed to protect wastewater and water infrastructure from aggressive chemical attack. Its advanced XPN technology forms a durable, cross-linked network that provides excellent toughness, flexibility, and chemical resistance.

The system is low in VOCs, easy to apply by spray or hand, and cures rapidly, even at low temperatures, allowing for a fast return to service and minimal downtime. It is also moisture tolerant, making it suitable for challenging site conditions, while delivering long-term durability, extended maintenance cycles, and reduced lifecycle costs.

Challenges

- The key challenges were protecting the concrete manhole risers from highly corrosive chemicals and carrying out the work within a confined structure, which created a restricted and challenging working environment.

Project participants

Main contractor	Chings Contracting Nelson
Applicator/ Contractor	Floor Technology New Zealand