

Kate Valley Landfill Cell 1A-1 Development

Commissioning of the new Canterbury regional landfill at Kate Valley in June 2005 was the culmination of more than five years of investigation, planning, design and construction effort.

The project is a cooperative venture between five territorial authorities including Christchurch City (pop 800,000) and two private sector waste companies.

The project provides a residual waste disposal solution that integrates with extensive regional recycling and resource recovery initiatives. The site's physical isolation proves a low-impact disposal solution, enhanced by an advanced liner system and full range of environmental control systems.

Project Data

Owner - Transwaste Canterbury Ltd.

Developer - Canterbury Waste Services Ltd.

Landfill Volume - 11 Mm³.

Footprint Area - 38.5 ha.

Liner - Clay and multi-layer GCL/geomembrane.

Modular waste transfer and transport system serving five territorial local authorities, including the city of Christchurch.

Waste Input - 350,000 tpa.

Cell 1A-1 Development

Commenced - May 2004.

Completed - June 2005.

Nominal airspace volume - 1.08Mm³.

Three-layer GCL/HDPE composite liner - 40,000 m².

Leachate storage and stormwater control structures - 10m high water supply dam and 15m high sediment dam.



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