

## Whitford Landfill

The Whitford Landfill is a key element of Auckland's solid waste infrastructure and from mid-2005 was the sole remaining municipal solid waste landfill on the Auckland isthmus.

The landfill has operated with modern engineering and management systems since 1994 and is now a state-of-the-art facility serving the major urban area of Manukau City and its surrounds - a base population of nearly half a million people, and containing a significant proportion of Auckland's light industrial base.

### Project Data

Owner - Manukau City Council (MCC).

Developer - Waste Disposal Services (MCC/Waste Management NZ Ltd Joint Venture).

Tonkin & Taylor Involvement - Engineering and LFG system review, resource consent processes for development of Footprints "T" and "U", detailed designs for Phases 8, 9, 9A, 10, ongoing development planning and design of steep sideslope liner system for extension into quarry void, airspace modelling and stormwater drainage.

Landfill Volume - 12 Mm<sup>3</sup> depending on final footprint adopted.

Footprint Area - up to 48 ha.

Liner - Range of clay/geomembrane liner systems.

Waste Input - 200,000 tpa.

Other Features - On-site leachate pre-treatment and spray irrigation, and owner-developed LFG extraction system with energy recovery and flare.



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