





1 Render of the Hutt City Council Administration Building. 2 Testing the piles. 3 Pipework manifold.

HUTT CITY COUNCIL ADMINISTRATION BUILDING

Stephenson & Turner for Hutt City Council

Project Location: Lower Hutt



The new Administration Offices building for Hutt City Council includes the use of Ground Source Heat Pumps (GSHP) and for the first time in New Zealand, the use of ground source pipework located within the structural piles, known as thermal or energy piles. These have been used in England and Europe but until now, not in New Zealand.

The design, by Stephenson and Turner (S&T), uses closed loop pipework contained within the 72 new driven structural piles which were required as part of the structural strengthening of the building.

The system provides both heating in winter and cooling in summer, and the design lifespan of the ground source pipework is matched to that of the structure of the building. As a building of historic significance, there are no chimneys or outdoor rooftop chiller plant.

A Soft landings service has been provided during the first year of occupation, with monitoring and adjustments carried out. The building's performance during this time has been excellent and it is expected that a NABERSNZ energy use rating of 4 - 5 stars will be achieved.

Judging & Copyright Statement

This project is an entrant in the 2016 INNOVATE NZ Awards of Excellence competition. The winners will be celebrated at our Awards Gala Dinner on Saturday, 12th August 2017 in Taupo.

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