

## CASE STUDY

### Municipal Waste Water Treatment Plant Controls

<b>OUR CLIENT:</b>	<b>New Plymouth District Council</b>
<b>INDUSTRY:</b>	Waste Water Treatment
<b>VALUE:</b>	NZ\$ 275,000
<b>OVERVIEW:</b>	<p>The New Plymouth Wastewater Treatment Plant was built in 1984 and is located in the eastern area of New Plymouth. The controls and process were substantially upgraded in 2014.</p> <p>The plant takes raw sewage and trade wastes and uses a biological treatment process known as activated sludge aeration to produce a high quality effluent. The clean effluent is discharged to the Tasman Sea via a 480m ocean outfall.</p> <p>The quality of the water leaving the plant is one of the cleanest in New Zealand and well within the New Zealand standard for safe swimming and seafood gathering.</p>
<b>ENGINEERING:</b>	<p>ECL delivered the controls systems for the MWH designed plant upgrade. The programming, FAT, commissioning and extended plant optimization phases involved detailed brownfield/greenfield ControlLogix PACs and Wonderware HMI configuration.</p> <p>A working knowledge of RAS/WAS activated sludge handling, open ditch aeration, clarifiers and general WWT process was a key component to the project success.</p>

- End project resulted in higher quality treated water to the outfall and increased capacity to deal with peak flood events.
- Complex brownfield integration with existing controls and SCADA to provide seamless interface between old and new systems.

