

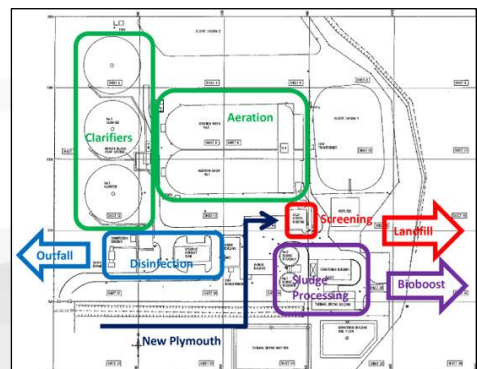
CASE STUDY

Waste Water Treatment Plant

OUR CLIENT:	New Plymouth District Council
INDUSTRY:	Waste Water Treatment
VALUE:	NZ\$275K
OVERVIEW:	<p>The New Plymouth Waste Water Treatment Plant was built in 1984 and is located in the Eastern area of New Plymouth.</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 clean effluent. The quality of the water leaving the plant is one of the cleanest in New Zealand and is well within the standards for safe swimming and seafood gathering. The clean effluent is discharged via a 480m ocean outlet.</p> <p>The control systems had not been upgraded since the plant was built and were becoming obsolete. The aim of the project was to upgrade the control systems and integrate with existing controls, further improve the quality of the water leaving the plant and increase the capacity of the plant to be able to handle peak flood conditions.</p>
ENGINEERING:	<p>ECL Engineers were involved from the design and development of the control systems through to FAT, functional testing and commissioning. The plant upgrade was designed by MWH.</p> <p>The existing PLC was upgraded, utilizing a Rockwell Automation ControlLogix PACs and a Wonderware Intouch HMI was installed.</p> <p>There were also extended plant optimization phases, involving detailed brownfield/greenfield configuration modifications to the PLC and HMI.</p> <p>A working knowledge of RAS/WAS handling, open ditch aeration, clarifiers and general WWT process was a key component to the project success.</p>

OUTCOME:

- The project resulted in higher quality treated water leaving the plant and increased capacity to handle peak flood conditions.
- Complex brownfield integration with existing controls and SCADA provided seamless interface between existing and new systems.



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