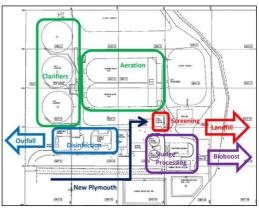


CASE STUDY Municipal Waste Water Treatment Plant Controls

New Plymouth District Council OUR CLIENT: INDUSTRY: Waste Water Treatment VALUE: NZ\$ 275,000 **OVERVIEW:** 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. 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. 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. ECL delivered the controls systems for the MWH designed plant upgrade. The ENGINEERING: programming, FAT, commissioning and extended plant optimization phases involved detailed brownfield/greenfield ControlLogix PACs and Wonderware HMI configuration. 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.

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.





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