



Water Reclamation - Portland Water Reclamation Plant

The Portland Water Reclamation Plant is located south of the town and provides sewage treatment services for residential, business and industrial customers.

Raw sewage is collected at three major pump stations around Portland and is pumped via a pressure pipeline to the water reclamation plant.

To begin the treatment process, sewage undertakes a step screening process that removes any large items and rubbish, which is collected and washed before being disposed. Sand and grit is removed from the sewage via the grit removal channel.

The treatment plant uses an Intermittently Decanted Extended Aeration (IDEA) process, which uses four one-hour cycles to treat the sewage. The four cycles include two stages of aeration, settling and decanting the treated water from the surface of two tanks. Treated water then travels through a UV disinfection system which assists in eliminating harmful bacteria. Clear water is then released to the ocean.

Sludge is removed from the bottom of the two treatment tanks and pumped to drying beds where excess water is removed. The dried sludge is then stabilised and reused as soil conditioner.



The aeration lagoons at the Portland Reclamation Plant

AT A GLANCE

Portland Water Reclamation Plant

2012/13 Volume Treated Sewage:	1,100ML
Number of Customers:	5,114
Storage Capacity:	4ML
Type of Treatment Used:	Intermittently Decanted Extended Aeration (IDEA)

IML = One Million Litres