

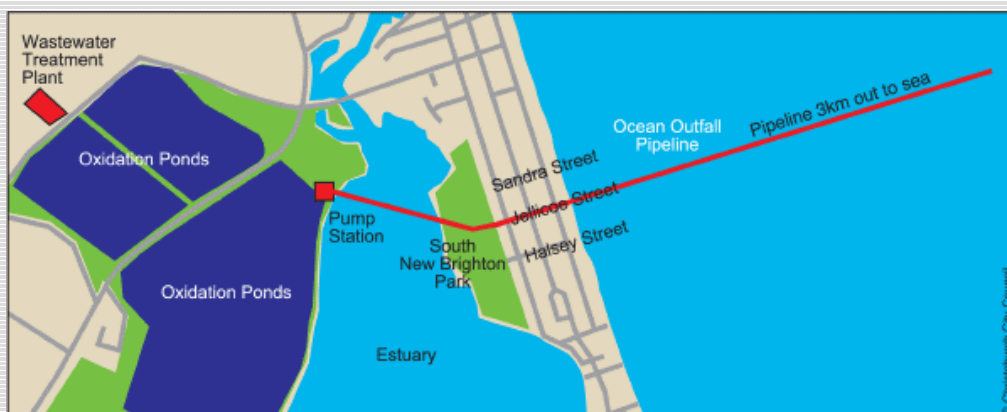
Christchurch Outfall in New Zealand



Picture 1: OD 1800mm pipe in 12m-length prepared for welding of 300m-sections

Project description

The City of Christchurch/ New Zealand has decided to perform several improvements in the sewerage system. Instead of discharging the city's treated wastewater into the Avon-Heathcote Estuary, an Ocean Outfall pipeline will transport it underground from the oxidation ponds at the Wastewater Treatment Plant to 3km out into Pegasus Bay.



Picture 2: Overview construction site

A major project milestone was reached when the Council awarded New Zealand based company McConnell Dowell Constructors Ltd, the contract for the construction of the City's Ocean Outfall pipeline. McConnell Dowell's tender winning solution will use micro-tunnelling technology (using a tunnel boring machine) for the landward section of the pipe route - from the oxidation ponds across the estuary and South Brighton Spit, and through the surf zone. Beyond the surf zone, the pipeline will be sunk into a pre-dredged trench. The total expected cost of the project is NZ\$ 87.224 million (inflation adjusted through to the end of the project).

Scope of supply

Since 2005 PPS-FRANK Ltd. In Christchurch manufactures polyethylene pipes and components up to diameter of 2000 mm locally in New Zealand. In the Christchurch Outflow project PPS-FRANK had to compete with overseas and North Island companies for the supply of the following components:

- 2.500 meters of OD 1.800mm/ SDR26 PE100 pipe in 12m-length
- Stub ends for OD 1.800mm/ SDR 26 PE100 pipe
- Flanges
- Welding works
- Etc.



Picture 1: Welding machine for OD 1800mm pipe



Picture 4: Installation of concrete anchors

Time frame

The pipeline-preparation work away from the construction area, started immediately after the contract was awarded to company PPS-FRANK Ltd/ Christchurch, a subsidiary of the German FRANK-group. Construction on-site is expected to start in mid-December 2007 at the City's Wastewater Treatment Plant in South New Brighton Park. The Ocean Outfall project is on track to be completed by the end of 2008. This is nine months ahead of the schedule to meet the Environment Court consent deadline of September 2009, to remove wastewater discharge from the Estuary.

Partners

Christchurch City Council – City Council
McConnell Dowell Constructors Ltd - Contractor
PPS-FRANK Ltd – Pipe manufacturer (subsidiary of FRANK-group)
PPS Polyethylene Pipe Systems Ltd – Welding works

Contact

export@frank-gmbh.de