

Wastewater Treatment

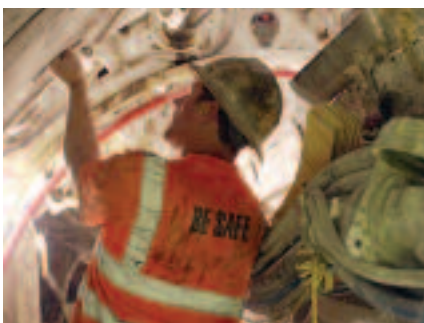
# Cleaner seas for Margate and Broadstairs



*A path to cleaner seas*

Work is progressing well on Southern Water's £80 million environmental improvement scheme to bring even cleaner seas to Margate and Broadstairs in line with UK and European Legislation.

Archaeological investigations and construction began in May 2005. The work remains on programme and the scheme is expected to be operational by the end of 2007. When complete the scheme will fully clean wastewater from the two towns for the first time before releasing it out to sea. Since our last update in the Autumn, the open-cut sections of new underground pipelines to transport wastewater are almost complete.



*Working safely underground*

Work at the main pumping and treatment sites has progressed well.

### *Pipelines*

The twin 11km long pipelines from Foreness Point, Margate to the new wastewater treatment works at Weatherlees is substantially complete. Construction of the section across Manston Airport ended in April. Pipeline works that remain to be completed include short lengths below two railways. The pipe-jack method which drills a tunnel allowing short pieces of pipe to be pushed through, will be used to install these. The installation of air valves at various locations along the route also continues.

A pipeline linking Southern Water works at Broadstairs and Margate is close to completion apart from a short area near Neptune Tower which requires specialist drilling to prevent digging up the golf course and a small 100m section of open trench. This will be completed during the spring.

### *Tunnels*

The first tunnel, from Sloe Lane to Star Lane (640m long), was completed over the winter period and work to install the twin pipeline inside this tunnel has already begun. The concrete support



*Piecing together tunnel jigsaw*

plinths are currently being constructed and the installation of the ductile iron pipes will follow within the next month.

In February the tunnel boring machine, named 'Crystal' by Newington Junior Foundation pupil Georgina Penney, was transferred from the shaft at Star Lane to the shaft at Broadley Road. Work is over 25% complete on the construction of the second tunnel from Broadley Road to Palm Bay Avenue (1,380m long).

Access shafts at Palm Bay Avenue and within the headworks site at Margate have also been completed. The latter will provide additional storage for stormwater in bad weather to help prevent flooding and pollution.

### *Work at Margate*

Construction of a shaft to store stormwater at Foreness Point, Margate, is complete. When the overall project is complete an additional 12 million litres of stormwater will be able to be stored during periods of heavy rainfall instead of flowing out to sea. Once the bad weather subsides the stormwater can then be pumped away for treatment. Work has commenced on the outfall tunnel. Work continues to modify the existing building and equipment at Foreness Point and to also

### *Contact us*

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Alternatively, you can view information and make comments on Southern Water's website.



install new mechanical and electrical equipment. While the new equipment is being installed, normal sewage flows through the plant must be maintained at all times and this can present a difficult challenge for the engineers who are carefully managing this task.

### *Work at Weatherlees Wastewater Treatment Works*

Construction of the Wastewater Treatment Works is well under way. Work is focussed on the construction of reinforced concrete aeration tanks (to biologically treat the wastewater) and final settlement tanks (to remove any waste particles). The new works will clean 20 million litres of wastewater every day so it can be safely released out to sea in line with European legislation. In addition, the foundations for the buildings to house electrical and control equipment have been constructed.

### *Forum group*

To date, seven Forum group meetings have been held where members of the project team from Southern Water and the contractor meet with representatives from the local community to provide updates on the scheme and address any concerns they may have.



*Light at the end of the tunnel as work continues*

Telephone:

**0845 278 0845**

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