Improving operational efficiency of the Gold Coast Sand Bypass System

Delivering our plan to Sustain, Enhance and Promote Gold Coast Waterways

The Gold Coast Waterways Authority (GCWA) is investing $35.3 million in projects over four years to sustain, enhance and promote our waterways.

About the project
The Sand Bypass System (SBS) transfers sand under the Gold Coast Seaway entrance from the Spit to the Southern tip of South Stradbroke Island.

After 30 years of service, refurbishment works are required to improve the system’s operational efficiency:

- **Phase 1** – Installation of a low pressure underground pipeline across the South East corner of Doug Jennings Park.
- **Phase 2** – Replacement of one of two high pressure pumps in the main building.

Benefits to the community
- Maintaining functional reliability and improving operational efficiency with regard to power consumption.
- Protecting the accessibility and ensuring sustainable management of sand pumping activities at the Gold Coast Seaway entrance.

Our Waterways Management Program 2015-19 identifies more than 60 projects being planned and delivered over the next four years. To find out more about our program, visit [www.gcwa.qld.gov.au/program](http://www.gcwa.qld.gov.au/program)

The Gold Coast Waterways Authority (GCWA) is the Queensland Government agency responsible for improving access to and managing the waterways as well as ensuring that the waterways continue to be a great asset available to residents, visitors and businesses on the Gold Coast.

Our vision
A waterways network (and relevant facilities and reserves) that is sustainably managed to reflect and support an appropriate balance between the recreational, tourism, environmental, economic development and commercial aspirations and objectives of the Gold Coast community and visitors.

For further information, contact us:
T: (07) 5539 7350
E: mail@gcwa.qld.gov.au
W: www.gcwa.qld.gov.au

---

### SBS Project - Fast facts*

<table>
<thead>
<tr>
<th>Location</th>
<th>Gold Coast Seaway Sand Bypass System &amp; Doug Jennings Park, Main Beach.</th>
</tr>
</thead>
</table>
| Cost     | 2015 - 2016: $950,000  
           | 2016 - 2017: $900,000                                             |
| Status   | Energy Efficiency Investigations:  
           | completed mid 2015  
           | Design & Approvals:  
           | completed Feb 2016                                             |
| Construction | Phase 1: Mar - Jun 2016  
                  | Phase 2: Late 2016                                               |

*May be subject to change*
Improving operational efficiency of the Gold Coast Sand Bypass System

Extent of works for installation of underground pipeline (Phase 1) at Doug Jennings Park

**STATISTICS**

- South Wall: 600 metres long
- North Wall: 400 metres long
- Distance apart: 320 metres
- Entrance Channel Width: 170 metres
- Design depth at low water: 5.50 metres

**SAND BY PASS JETTY**

- Construction timber deck on steel substructure
- Jetty Length: 490 metres
- Deck: 6.0 metres above Mean Water Level
- Depth of jetty piles below deck level: 25.0 metres
- Depth of jetty piles below deck level: 17.0 metres
- Sand slurry delivery pipeline to South Stradbroke Island 400 mm dia. polyurethane lined mild steel 1500 metres long.

**PUMPS**

- Low pressure pumps: 2 x 150 kW (200 H.P.) Turbine
- High pressure pumps: 2 x 560 kW (750 H.P.) Centrifugal
- Slurry pump: 1 x 710 kW (950 H.P.) Centrifugal
- Total cost of project including training walls, dredging, navigation aids, Sand Bypass System and roadworks: $50,000,000.