

PROJECT OVERVIEW



BYPASS | Hobsons Bay Main Sewer Bypass

CLIENT:

John Holland KBR JV

PROJECT:

Hobsons Bay Main Sewer Bypass

LOCATION:

Beach Road, Brighton - Victoria

SCOPE: Manage critical bypass of sewer whilst remedial works carried out on main pipelines.

DELIVERABLE: Design, construct, commission and manage sewer bypass system including construction of 4.5km of DN450 HDPE pipelines.

RESOURCING: Over 18,000 man hours with up to 2 x 6 man teams, working simultaneously.

PRICING MODEL: Lump Sum installation with BOQ on pumping

CONTRACT TYPE: EPCM

PERFORMANCE MODEL: 100% Self-Performed

To enable the refurbishment of the Hobsons Bay Main Sewer, Welltech were contracted to carry out detailed concept design, in collaboration with John Holland KBR and Melbourne Water engineering teams.

On completion of hydraulic and mechanical design by Welltech in-house engineering, the system was sent for verification by third party consultants. Upon verification, Welltech moved into the procurement, manufacturing, and construction phase.

Crews mobilised to site and commenced construction of 4.5km of DN450 HDPE pipeline. Construction of the pipeline proved challenging, avoiding obstacles along Beach Road and on Brighton Beach, which required detailed and composite approaches. With the pipelines completed and installed, Welltech technical and engineering teams mobilised to install the bypass system.

The pump suction was located beneath a live road. This demanded state-of-the-art instrumentation; including Welltech designed autonomous PLC control and SCADA back-to-base telemetry, backed by 100% redundancy.

The project was completed incident-free and was well received by residents, stakeholders and the client.

SPECIFICATIONS

PUMPS	FLOW RATE	DISTANCE	PIPELINE	DURATION
Hidrostal I10k FLYGT 3171 Hidrostal DE3R	Up to 400L/sec	4,500m Total	3 x HDPE pipelines, into a common DN450 discharge. Welded, tested and installed by Welltech.	18 Weeks

We will always deliver, on every promise we make, Guaranteed.

Zak Haines

Technical

0451 057 567

Commitment = Satisfaction

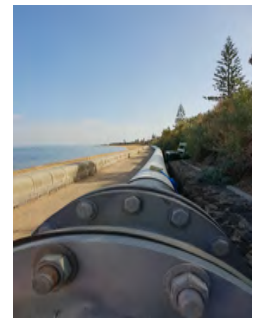


Welltech Total Water Management are Australia's leading specialist in Bypass Operations. When your next bypass project demands an innovative solution, offering the best equipment and a dedicated team, Welltech has you covered.

Bypass Operations

Why Welltech?

- Our Bypass Division specialises in the successful pumping and bypassing of sewer and wastewater across the nation and internationally, incident-free;
- Large-scale operator with the capacity to manage flow rates in excess of 14,000L/sec.;
- We ensure each project component is considered, planned and executed using the most advanced equipment and practices;
- Our in-house fabrication facility has the capacity to make and modify pipe and spool work to enable fast turn around, ensuring a one stop interface with existing assets, any time of day or night;
- We take full ownership of projects, including temporary works engineering and construction of temporary pressure mains up to DN900 HDPE;
- Our in-house Water Supply Division has a vast inventory of pumps, control equipment, pipelines and process instrumentation;
- We are the exclusive national distributor for Lampe® Sewer Sealing Cushions;
- Our highly skilled, fast deploy teams are available to mobilise our in-house fleet at a moment's notice;
- You can be assured we will deliver as promised and you will be supported by Welltech's guarantee of *Commitment = Satisfaction*.



[Click here to view our Bypass Operations Gallery](#)

We are proud to be aligned with and recommend:



ENGINEERING
TOMORROW



SIEMENS

Bypass Project Process:



Commitment = Satisfaction

Zak Haines

Zak's highly technical background in electrical instrumentation and mechanical, coupled with his expert project management skills ensures you are in safe hands. He has a hard earned, decorated history, of successful sewer bypass projects.

Zak is also responsible for the development of Welltech's innovative Hypro app. Welltech Hypro is a free app, giving users access to a real-time pipe friction calculation, critical engineering information tables and an interactive unit converter.

Zak's thorough knowledge of sewer bypass operations and true understanding of project deadlines gives clients the confidence Welltech will deliver on every promise we make, guaranteed!



"If you can't find a solution elsewhere, you will find it here – guaranteed".

From an ambitious dream to reality.

"The installation of the temporary stopboard gate 1 was successful and was a tribute to the planning and hard work from all those involved. Thanks to Zak H and the Welltech crew for assisting in proactive and precise planning."

Matt Smith Fulton Hogan Engineer, Luggage Point QLD

CONTACT US ANY TIME

National Head Office
+61 8 9353 1366

Zak Haines (Technical)
0451 057 567

David Henderson (Solutions)
0407 544 196



Download the Welltech HyPro™ Hydraulic Pipe Friction App.
Available free for Apple and Android devices.



Commitment = Satisfaction



National Head Office

61 Baile Road
Canning Vale, WA 6155
+61 8 9353 1366
welltech.com.au