



BYPASS | Woogaroo Creek - Goodna QLD

CLIENT:

Thiess/Queensland Urban Utilities

PROJECT:

Woogaroo Trunk Main Sewer Refurbishment

LOCATION:

Goodna, Queensland

SCOPE: Manage high flow, bypass of sewer whilst remedial works carried out

DELIVERABLE: Design, construct, commission and manage multiple sewer bypass systems including construction of 600m of DN630 HDPE pipeline

RESOURCING: 5,000 hours with 24/7 on-site monitoring

PRICING MODEL: Lump Sum installation with BOQ on pumping

CONTRACT TYPE: EPCM

PERFORMANCE MODEL: 100% Self Performed

During bid phase of the Woogaroo Trunk Main Sewer Refurbishment Contract, the team at Thiess relied heavily on Welltech to provide experience, knowledge and technical input. This input, assisted them in securing the tender with Queensland Urban Utilities.

Welltech technical crews were invited to pre-award client meetings with Thiess and QUU representatives, to assist stakeholders to gain an understanding of inherent risks and how Welltech's use of, state of the art equipment and technology could mitigate these risks.

After recent large scale flooding in the area, QUU's appetite for risk had been significantly reduced. In light of this, it was agreed that the proposed bypass system for the main re-line section would have a total of 200% backup contingency, as well as the capacity for the complete set of pumps to run, raising the total possible capacity to 2,400L/sec.

Fortunately conditions remained stable and the full 2,400L/sec was never required. The system utilised, was surface mount, vacuum primed and was controlled through the use of Welltech's PLC fitted, remote access VF Drives. Flows as low as 20L/sec overnight through to daily peaks were managed seamlessly. On more than one occasion daily flow rates did push up past the contracted flow of 800L/sec and reached a maximum of 1,150L/sec. These additional flows were managed without incident in the usual controlled style Welltech are renowned for.

The total project was 100% incident free and another resounding success.

SPECIFICATIONS

PUMPS	FLOW RATE	DISTANCE	PIPELINE	DURATION
Hidrostal immersible and vacuum primed surface mount. Ranging 5kW to 160kW	20 - 1150L/sec	600m Main and sidelines	DN630, DN450, DN200 and DN110 HDPE	98 Days

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David Henderson
Solutions
0407 544 196

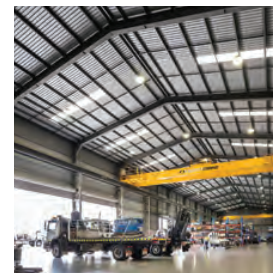


Welltech Total Water Management are Australia's leading specialist in Bypass Operations. When your next bypass project demands an innovative solution, offering the best equipment and a dedicated team, Welltech has you covered.

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*.



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We are proud to be aligned with and recommend:



ENGINEERING
TOMORROW



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Bypass Project Process:



Commitment = Satisfaction

David Henderson

For over 25 years, David has been providing workable solutions in an industry that requires absolute commitment.

David takes full accountability and responsibility for each and every project, ensuring company values and promises are kept. This gives our clients confidence that we will make decisions and will provide answers when they need them.

David's training in project and contracts management delivers peace of mind that Welltech and our clients are all on the same page with a clear understanding of strict deadlines, as well as project compliance duties and responsibilities.



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

From an ambitious dream to reality.

Once committed, Welltech are renowned for being finishers.

"Our unwavering dedication and commitment to achieve the very best, drives us relentlessly towards the ever moving goal of absolute perfection."

CEO David Henderson

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Commitment = Satisfaction



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