

Lorne No 2 Pump Station Upgrade

Date:

September 2014 – November 2014

Location:

Lorne, Victoria

Client:

Barwon Water

Project value:

\$525k

Project Details:

The existing Lorne No.2 Pump Station which was constructed in 1986, supplied Lorne's high level areas and was identified as requiring structural and mechanical refurbishment of the existing pump station along with installation of a backup connection from the pump station directly into the reticulation network. JAYDO has been awarded the upgrade of the Lorne No.2 Pump Station and installation of the Holliday Road bypass pipeline, including installation and maintenance of a temporary bypass system for the duration of the works.

The scope of work includes:

- 180 poly backup line it was installed via trench work and via a HDD Bore,
- Architectural and structural refurbishment of pump station building
- Installation of pumps and pressure vessel
- Installation of DN150 MSCL section to replace removed in ground pipe
- Installation of DN150 SS316 suction and discharge pipe work
- Installation of above ground pressure relief valve
- Mechanical works
- Electrical works

Key Challenges:

The original construction design would not allow for the cut in's to be carried out within shut down allotted time frames however, through past construction experience JAYDO where able to re-design the arrangement of the cut in detail's to allow the works be carried out with minimum project cost or delay. JAYDO maintained water



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flow to the 350 residences that were being fed by the pump station and kept shutdowns to a minimum.

JAYDO identified that directional bore operations have a potential to release drilling fluids into the surface environment through frac-outs. While drilling fluid seepage associated with a frac-out is most likely to occur near the bore entry and exit points where the drill head is shallow, frac-outs can occur in any location along the directional bore. A frac-out management plan (FMP) established operational procedures and responsibilities for the prevention, containment, and clean-up of frac-outs associated with the proposed directional drilling at this utility.

Client Feedback:

JAYDO were able to complete their works within the allowed time, safely and to the highest quality surpassing the expectations of the client.



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