



CASE STUDY

WATER INFRASTRUCTURE

AT A GLANCE

The operator of an aged water infrastructure system faced challenges related to low confidence in the accuracy of their as-built status drawings and an unknown condition of their infrastructure. These issues pose significant risks to the safe and efficient operation of their assets, as well as to the quality of the water supply they provide.

CHALLENGE

1. Limited understanding of asset condition
2. Low confidence in existing asset plans
3. Traditional methods of data capture and as-building are disruptive to ongoing operations

SOLUTION

- GDi immediately mobilised to the site and completed a comprehensive data capture exercise within three days with minimum interference to ongoing operations
- The captured data was then efficiently registered and uploaded into the advanced data management platform, Vision
- By leveraging the powerful inspection tools available within Vision, GDi was able to perform a detailed as-built analysis of the site, which revealed important insights into the condition of the infrastructure
- GDi also used captured data to conduct desktop remote visual inspections (RVI) and plot external corrosion across key equipment items, providing the operator with valuable information about potential risks and areas for further inspection or maintenance



Laser Scanning &
Data management



Vision



Remote Visual
Inspection



OUTCOME

- 1 GDi's approach allowed the operator to rapidly ascertain the as-built status of the site with no operational disruption, resulting in updates of key information such as documents and drawings.
- 2 The visual condition assessment conducted through Vision identified unknown issues and prompted remedial actions.
- 3 Vision is now being used as a routine visualisation tool by key stakeholders to plan, coordinate, and visualise worksopes on-site without the need for site visits.