

WATER ENGINEERING

Critical Infrastructure

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Condition Assessment of Water Pipelines and Sewer Pipelines

Applying NDT and assessment techniques to allow analysis of the current and future leakage and structural performance capability of ferrous, asbestos cement and plastic pipelines. Applying NDT to identify corrosion pattern unique to sewer mains to allow analysis of their performance capability.



Failure Investigations

Investigations allowing pipeline failure mechanisms to be determined and used to predict the likelihood of future such failures on the pipeline.



Trunk Mains Leakage

Outputs from our inspection services are used to highlight section of main at highest risk of leakage, hence allow economic targeted use of leak detection surveys



Bridge Inspection and Repair

AESL undertake the maintenance of aged pipe bridges from initial inspection and structural assessment through to repair and maintenance.



Pipeline Surveys

Deterioration level of pipelines are significantly influenced by pipe coating performance and the soil corrosivity. Above ground surveys may be carried out to provide data useful for pipeline condition prediction and the targeting of inspections.



Instrumentation & Monitoring Services

Monitoring techniques for pipeline movement and induced stresses



Development

AESL carry out continuous in-house research and development as well as R&D projects for water industry customers