pitt&sherry

Specialist Knowledge.
Practical Solutions.

Bridge Inspections Capability Statement

pitt&sherry's bridge engineering performs a complete range of bridge inspections which are tailored to meet the needs of our clients.

Level 1, Level 2 & Level 3 Bridge Inspections
Governments and road and rail authorities across Australia require regular level 1 and level 2 bridge inspections to be conducted largely in accordance with each State's Bridge Inspection Methodologies.

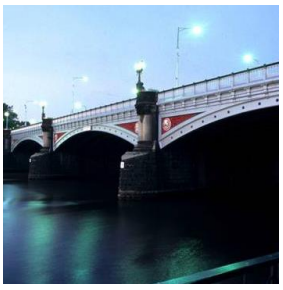
The assessment data collected can be used to assign routine maintenance works, carry out annual bridge revaluations, determine budgets for annual capital works in order to mitigate risk and maintain asset condition and serviceability.

Ideally, all Local Governments will use experienced Bridge Engineers in conjunction with a Bridge Management System to effectively manage bridges and other related structures like boardwalks, jetties piers and culverts.

pitt&sherry employ experienced Bridge Engineers to conduct level 1, 2 and 3 inspections.

We have the capacity to deliver assessment data and reporting outcomes using the proven and well respected Bridge Management System - BridgeAsyst®. For those who don't wish to use BridgeAsyst®, we are able to populate other existing data stores like VicRoads' Bridge Inspection System or simply provide a report.

pitt&sherry works with Councils to develop maintenance and renewal programs. With these programs established pitt&sherry is then able to offer detailed design, drafting and contract administration services to ensure that works are completed to an appropriate standard.



Our range of services include:
- Level 1 routine maintenance inspections
- Level 2 bridge inspections
- Level 3 inspections

Level 1 Inspections
These inspections identify general maintenance required for all types of bridges.

Level 2 Inspections
Level 2 inspections are comprehensive visual inspections. Depending on the risk profile of the structure, inspections are carried out on a frequency of between 6 months and two years, and up to 6 years for small culverts.

The purpose of this level of inspection is to rate the condition of a structure as a basis for assessing the effectiveness of past treatments, identifying current maintenance needs, modelling and forecasting future changes in condition and estimating future budget requirements.

pitt&sherry undertake level 2 inspections for a wide variety of bridge owners and form the basis for effective management of bridge networks.

Level 3 Inspections
Detailed engineering inspections are carried out with the purpose of assessing the capacity of a structure, as well as identifying and quantifying the current and projected deterioration of the structure. This enables us to recommend appropriate management options.

We have developed a systematic approach to the investigations which includes:
- Undertaking a detailed visual inspection of the structure
- Appropriate diagnostic testing including:
    - Covermeter surveys
    - Delamination surveys
    - Concrete resistivity
    - Half cell potential
    - Schmidt hammer
    - Carbonation testing
    - Magnetic particle testing
    - Die penetrant testing
    - Lead paint assessment
    - Cement content
    - Chloride concentration
    - Compressive strength
- Load assessment in the as-new and as-is condition for prescribed vehicles
- Provision of a comprehensive written report including future management recommendations