

Preface

This document, the Wharf Structures Condition Assessment Manual (the Manual) is a revision of the document that was published by Ports Australia in 2014. This revision arose from Ports Australia's consideration of the scope of WSCAM, taking account of technological changes and feedback from users.

The revisions include:

- Expanding application of the Manual to static port structures (except buildings), whereas the previous version applied only to wharf structures. Examples of structures now within the scope of the Manual are conveyor trestles and coastal defences.
- Providing a single, flexible inspection framework which can accommodate various inspection techniques and levels of detail, as opposed to the four inspection methods in the previous version, which related specifically to the inspection techniques used and level of detail of the inspection, namely:
 - Basic visual assessment
 - Advanced visual assessment
 - Physical assessment
 - Visual maintenance assessment.
- New guidance on the condition rating of aluminium and fibre-reinforced polymer (FRP) structures.
- Guidance on a risk/criticality-based approach to determine the frequency of inspections.
- Coverage of the use of drones, remotely operated vehicles, and mobile devices for undertaking inspections.
- Further guidance and examples on interpretation and use of information obtained from inspections.

Port authorities, asset owners and other users of the Manual may provide feedback for consideration in future revisions to info@portsaustralia.com.au. It is intended that the Manual will be updated over time and may include:

- Additional asset types
- Emerging construction materials
- Updates based on technological innovation.