

## **SUMMARY STATEMENT OF JAMES BLACKBURN (STORMWATER MANAGEMENT)**

1. My name is James Blackburn and I am a Chartered Engineer specialising in the areas of stormwater management, hydrology and flooding. I have prepared the evidence in respect of the stormwater collection, conveyance, treatment and discharge dated 24 August 2023.
2. The existing Northport canal/pond stormwater management system is a large-scale stormwater collection and treatment system which has been demonstrated to perform effectively, including with respect to volumetric capacity and discharge water quality.
3. The proposed expansion will result in an increase in stormwater runoff from the port apron. This additional runoff will require interception, conveyance, and appropriate treatment prior to discharge to the harbour, as is presently afforded to apron runoff.
4. The proposal is for collection, treatment and discharge of apron stormwater runoff to be via the existing pond-based stormwater system and/or proprietary devices. This is expected to require the construction of a further approximately 600m length of perimeter canal; and the provision of an additional high flow spillway weir at the eastern extent, similar to that presently provided at the western extent.
5. In my opinion:
  - (a) The proposed operational stormwater management system under the full proposed port expansion scenario is anticipated to function effectively.
  - (b) The operational stormwater consent conditions proposed by Northport are appropriate from a stormwater management/engineering perspective; including the proposed adjustment to stormwater quality monitoring/compliance – being the use of the current resource consent conditions' mixing zone thresholds as a trigger for the application of proposed new at-source compliance parameters.

**James Blackburn**

9 October 2023