

Our ref: L.003353.001.01_RFI37.docx

31 January 2025

Macquarie Point Development Corporation
41 Evans Street
HOBART TAS 7000

Attention: Sean McArdle

Dear Sean,

RE: MACQUARIE POINT STADIUM – RESPONSE TO RFI 37

BMT has been requested to provide supplementary information to the “Macquarie Point Stormwater Management Plan – 26 August 2024” (referred to as ‘SWMP’ herein), specifically in response to the following matter raised:

“Stormwater management reports should assess known risks such as the potential for ‘liquid emissions’ to enter stormwater and include proposed strategies to achieve a suitable level of compliance with water quality objectives (section 8.5 of the Guidelines).”

1.1 Consideration of Discharge Objectives

The Site’s stormwater management systems are for the capture and treatment of surface runoff from Site surfaces including roof areas and ground level surfaces (where possible and practical).

The ability of the Site to achieve discharge objectives is significantly affected by the presence of a very large extent of roof area (primarily stadium roof). As identified in SWMP Section 5.4, achievement of discharge objectives across the entire Site would require the treatment of a portion (or all) of the stadium roof runoff. The SWMP has not assessed what degree of additional treatment would be required to achieve the discharge objectives, however, there are a number of ways in which this could be achieved. For example, stadium roof runoff could be temporarily stored and passed through additional bio-retention systems prior to discharge (noting that bio-retention systems work most effectively at low hydraulic loading rates) or alternatively roof runoff could be collected in larger storage tanks (larger than currently assumed in the SWMP) and reused internally. Either approach would require provision of additional infrastructure which would require high capital expenditure and therefore may not be practical design inclusions.

1.2 Consideration of Liquid Emissions

There are not expected to be any liquid emissions to stormwater from within the covered stadium. Stadium ground surfaces will be managed to minimise excess runoff that would require disposal. It is recommended that any potential liquid waste streams from the stadium itself are directed to trade waste systems or sewer depending on quality and volume in accordance with local government requirements. External to the stadium there are not expected to be any discharges of liquids to the stormwater system based on known uses which are primarily landscaped concourse areas, roads and residential buildings. Any liquid waste from the residential buildings will be sent to trade waste or sewer in accordance with local government requirements.

In respect of the interaction of surface stormwater systems and subsurface areas that may remain contaminated, it is understood that the Site has been remediated to a level sufficient to support the proposed future use of the Site. However, it is recommended that stormwater infrastructure (specifically bio-retention systems) be designed to be sealed to prevent or limit ingress or egress of water consistent with the requirements of the Site Environmental Management Plan, which requires barriers between existing surfaces and new material to be put in place. Therefore, any potential future escape of contaminants from remediated areas that may contact stormwater treatment elements including the bio-retention systems, underground reuse tanks and pipework would have limited ability to ingress into these systems and then be 'discharged' by these systems to the environment. Based on the present understanding of the Site and proposed design it is expected that adequate area is available for stormwater treatment elements including proposed bio-retention systems.

For any further clarification please do not hesitate to get in touch with the undersigned.

Yours Sincerely,

BMT

A handwritten signature in black ink, appearing to read 'Damion Cavanagh', with a stylized, flowing script.

Damion Cavanagh
Principal Engineer