

PROJECT 2 – FINAL SCOPE SUMMARY

STORMWATER ASSESSMENT

The consultancy services requested are summarised in the following:

- A review and assessment of the adequacy of the existing storm water system and water sensitive urban design infrastructure, both designed and built;
- A review of the system in context of other recent studies and testing of the system as listed below and included in Appendix B and provides a desktop assessment and comparison of findings. The review process should aim to include commentary on the following:
 - Is the current testing regime adequate including a review of the appropriateness of the existing locations;
 - Identification of gaps in the testing, management or monitoring approach including commentary on whether new locations for testing are required, are any new tests need, and are any of the current tests no longer relevant;
 - What is the testing and report data telling us about how the system is functioning and how it was intended to function? What are the acceptable levels for the various tests currently being undertaken and how do they measure against acceptable standards. Commentary on what the tests are measuring which is suitable for non technical community members to understand, including an explanation and commentary on the issues and consequences of the various levels where they are higher than the acceptable standards relevant to the potential impacts on the Karaafs' natural systems;
- Based on the information reviewed, use this to paint a picture of what is happening in the system currently and measure this against what is best practice.

The following studies are included as appendices for review:

- Report 7 – Neil M Craigie PTY LTD Waterway Management Consultants – Torquay
- Sands Development – Surface Water Management System – Concept for management of quality and quantity of surface waters for irrigation supply and features lakes and wetlands – 22 July 2001
- Surf Coast Shire Report for Stormwater Master Plan – Torquay North Technical Report November 2010 – GHD
- Torquay North Stormwater Master Plan
- Flood Flow Updates – Zeally Sands Site – document 19th May 2020.

- Report – Karaaf Wetlands Catchment – Ecological & Storm water assessment – commissioned by The Sands Owners Corporation – 15th October 2021 – by Water Technology
- Provision of appropriate data on volume and flow rates within the system to enable an assessment and potential correlations between the water in the system and the condition of the Karaaf; this should include as a first step a desktop assessment of current available data based on the designed and delivered system including a review of rain fall history and subsequent recommendations to capture current time data and how this is best captured to measure 'actual' volumes going forward;
- recommendations as to the optimal volumes and quality of water that would be suitable to enter the Karaaf to maintain optimal EVC condition for the appropriate EVC classes and vegetation communities and/or a quality level applicable to pre development condition;
- opportunity to explain to the broader community how water sensitive urban design infrastructure functions and how the storm water system in Torquay North works using appropriate methods of communication that are engaging and clear to enhance education and understanding of Water Sensitive Urban Design Infrastructure;
- identification of possible short term and long term interventions to reduce volume and optimize quality in the system which can assist in improving the environmental condition of the Karaaf ensuring discussion with SCS development engineering;

Provisional items

- Makes provision for presentations to the Program Control Group for the program of projects upon completion of key milestones or findings;
- Makes provision for as a minimum x 2 presentations at Council Briefings upon completion of key milestones or findings;
- Makes provision for preparation of information including video, or voice over commentary for inclusion in webpage and social media updates, and possible development of a future 'story map' on the project
- Makes provision for a public question and answer session (to be confirmed) on the storm water network in Torquay North feeding into the Karaaf via the Sands.