

3. Specification

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1 Introduction

The Port Phillip City Council is committed to targets outlined in Toward Zero Sustainable Environment Strategy 2007. In order to meet council targets, council is required to escalate investment and implementation of streetscape works incorporating water sensitive urban design, sustainable public lighting and green road renewal materials.

The 'Sustainability in Streetscapes' – Guidelines and Implementation Plan is a key council initiative underway to support capital planning and investment in these areas. It aims to provide an action plan, capacity building direction and standard specifications for application during streetscape works, and will act as a tool for small, large and precinct based renewal into the future.

This brief relates to the delivery of aspects associated with the **water sensitive urban design** components of the Plan. These include the development of an implementation strategy to assist council integrate WSUD into its range of streetscape programs, to meet integrated water management targets contained in Council's Water Plan.

2 Background

Council's Water Plan sets integrated water management targets for 2020, across water conservation, the use of alternative water sources and stormwater treatment. Of most relevance to this project are council's stormwater quality targets, which propose reductions in mean pollutant loads by 2020, and council's alternative water source targets, which propose an increase in the use of alternative water sources by 2020.

Council's 2020 targets are as follows:

- 19% reduction in total suspended solids
- 15% reduction in total phosphorous
- 10% reduction in total nitrogen
- 50% of future ideal irrigation demand (or approx 80ML) supplied from alternative water sources

Council's Water Plan also sets five strategies for integrated water management. A key area of focus in the delivery of the Water Plan is a commitment to implement water sensitive urban design in roads, drainage and streetscape works.

Direction for management and maintenance of drainage assets is provided by council's Stormwater Action Plan and Flood Management Plan. Of relevance is the need to address future flood damages prevention and response. Water sensitive urban design can act as a key response to this issue.

The recent adoption of stormwater quality targets through the Water Plan has introduced a new dimension for consideration in council's delivery of drainage and streetscape works, and a need to strategically determine how targets will be met. There are opportunities to integrate water sensitive urban design into a range of Council programs as follows:

- Streetscape program
- Tree Planting program
- Drainage renewal program
- Passive irrigation systems for mature street trees program
- Footpath rehabilitation program
- Roads renewal program
- Kerbs renewal program
- Parks pathway renewal program,
- Traffic and transport improvement works including, council's pedestrian safety improvement program and bike lanes program
- Masterplans and other strategic planning activities involving the development of car parks and other impervious surfaces

These programs deliver a range of planned and reactive works, sometimes within tight timeframes, and would benefit from a standardised approach to facilitate timely and effective integration of water sensitive urban design where possible in each program. In some instances 5 year plans support these programs, in other cases the current year's program of works is indicative of works likely to be required in future years.

Council has and is currently developing a range of tools to support the implementation of WSUD. This includes council specific WSUD Guidelines (completed) and an ESD Toolkit to support the incorporation of sustainability features into capital works (in development). The Streetscape Implementation Plan would be required to work in an integrated manner with these tools where possible.

3 Objective

The primary objective of this consultancy is to develop a Streetscape Implementation Plan incorporating the following:

- Recommended approaches to enhance the integration of WSUD into the delivery of roads, drainage and streetscape works, including specific strategies to deliver to Water Plan targets for 2020.
- Development of a range of council specific WSUD retrofit scenarios for implementation across council programs. This could take the form of a catalogue of suitable solutions for different streetscape works, a hierarchy of treatments and a process for evaluating emerging design options.
- An implementation plan with both short to medium term actions;
- A clear business case for the implementation of nominated WSUD solutions versus more traditional storm water management treatment measures.

4 Scope

The Scope of work includes the following:

- Review of all relevant literature, data and documents.

- Inception meeting, individual consultation with relevant council officers and one workshop with officers to obtain information.
- An assessment of opportunities within council's 5 year plan to meet integrated water management targets
- An assessment of selected business cases and designs underway for consideration in the 2011/12 budget process, including recommendations for enhanced inclusion of WSUD. This assessment would inform the development of relevant retrofit scenarios, based on agreed 'typical' streetscape profiles, project types and issues as determined in consultation with council officers.
- Consideration of existing technical standards and recommended alterations to current approaches, including emerging design considerations arising from identified risks from climate change.

Key deliverables include a report outlining:

- Brief review of approaches applied to existing council streetscape projects
- Recommended approaches and WSUD solutions to enhance the integration of WSUD into roads, drainage and streetscape works. This should include:
 - consideration of existing technical standards and the viability and key issues for proposed WSUD solutions
 - A programmatic approach to delivering the targets listed in council's Water Plan within the streetscape context.
 - Practical and achievable options expressed both in terms of council programs and anticipated retrofit scenarios. These should include harvesting and water quality solutions, as well as those that lend themselves to addressing climate and flood mitigation issues, and identify the streetscape types that best lend themselves to these solutions.
- Costed short and long term action plan
- Diagrammatic representation of proposed solutions
- Recommendations where WSUD can become standard practice when streetscapes are renewed or altered.

5 Council Assistance

Council will provide the following assistance to the consultant:

- Copies of key council documents required for review:
 - Water Plan
 - WSUD Guidelines
 - Open Space Water Management Plan
 - Climate Adaptation Plan
 - Flood Management Plan
 - Other relevant stormwater management documentation
 - Relevant site specific park and street master and concept plans as related to nominated business cases

- Information on existing integrated water management and drainage infrastructure
- Copies and any data council has relating to WSUD, including, as necessary:
 - Council's current water account including existing project data
 - current maintenance schedules
 - capital works plans, including the 2010/11 program of works across all programs and where available 5 year plans for each of these programs.
 - Road condition reports
 - Inundation overlays
- Council will co-ordinate a workshop to bring together the relevant stakeholders. Consultation should include council officers responsible for the delivery of key projects as well as maintenance personnel responsible for the management of WSUD systems.

6 Consultant Submission requirements

The submission should include:

- Description of methodology to be used identifying key tasks and resources
- Personnel who will be responsible for each of the tasks, including CVs and experience for each
- Timeframe for various tasks and the project as a whole
- A fee proposal for various tasks and the project as a whole
- Experience relevant to the successful delivery of the contract

7 TIMETABLE

<i>Description</i>	<i>Expected Scheduled Finish</i>
Consultant appointed	29 March 2011
Internal consultation	April-May 2011
Completion of first draft	July 2011
Council Review	July/August 2011
Final Report	August 2011