

MRTS16

General Requirements

Appendix

Non-potable Water Proformas	
A	Recycled Water Assessment Report – Parts 1 and 2
B	Recycled Water Management Plan

A – Proforma for Testing of Recycled Water – Part 1 & 2

Site Sample Identification	
Project Name:	Sample Location:
Job / Contract No:	Site / Water Source No:
Date Tested:	Depth (from surface in mm):

Testing Laboratory Sample Identification	
Laboratory No:	Sample No:

Part 1

*The Contractor shall complete **Part 1** and where water pH is < 6.5 or > 7.5 (but inclusive to the range of 6 - 8.5) the Contractor shall complete **Part 2**.*

Water Quality Parameter	Parameter Requirement	Parameter Test Result
E. coli (median) cfu / 100 mL	< 10	
Turbidity NTU 95% ile (max.)	< 5	
SS mg / L median	5	
Chlorine residual	< 1 mg / L	
BOD ₅	< 10 mg / L	
Total Dissolved Salts	< 1000 mg / L with Chloride < 500 mg / L	
Total Nitrogen	< 10 mg / L	
Total Phosphorus	< 2 mg / L	
pH	6 – 8.5	

The parameters and result requirements listed in Part 1 have been adapted from the Victoria EPA *Guidelines for Environmental Management, Use of Reclaimed Water and Queensland Watering Recycled Guidelines*.

Part 2

Water Quality Parameter	Water Test Result
<i>Where the pH of water is < 6.5 the Contractor shall test the following concentrations of –</i>	
Chloride (Cl)	
Sulfates (SO ₄)	
<i>Where the pH of water is > 7.5 the Contractor shall test the following concentrations of –</i>	
Carbonates (CO ₃)	
Bicarbonates (HCO ₃)	
Calcium (Ca)	
Magnesium (Mg)	
Sodium (Na)	
Sodium adsorption ratio (SAR)	
Chloride (Cl)	

Water Quality Parameter	Water Test Result
<i>Where the pH of water is < 6.5 the Contractor shall test the following concentrations of –</i>	
Chloride (Cl)	
Sulfates (SO ₄)	
The test method for the Water Quality Parameters concentrations shall be in accordance with the American Public Health Association (APHA) Test Method 4500 or equivalent.	

B – Proforma for Recycled Water Assessment Report and Management Plan

Site Sample Identification	
Project Name:	Sample Location:
Job / Contract No:	Site / Water Source No:
Date Tested:	Depth (from surface in mm):

Testing Laboratory Sample Identification	
Laboratory No:	Sample No:

Recycled Water Assessment Report

The Contractor shall refer to proforma A for *Testing of Recycled Water* and prepare a *Recycled Water Assessment Report* (RWAR) that identifies:

- the effect of the recycled water on the topsoil and subsoil layers and vegetation relevant to the anticipated watering regime and soil and vegetation types; and
- the proposed mitigation measures to overcome these effects to satisfy the compliance requirements.

Recycled Water Management Plan

The Contractor shall refer to the proforma A and the RWAR and prepare a *Recycled Water Management Plan* (RWMP) that addresses:

- the development, during the period that recycled water is used, of methods to ensure that the topsoil and subsoil EC and pH parameters are maintained within the limits given in proforma C of Appendix MRTS16B *Vegetation Ground Works*; and
- the programming of a testing scheme of topsoil and subsoil layers that shall be carried out weekly for the first month after commencement of the use of recycled water, and monthly thereafter.