

## RECYCLED WATER INFORMATION SHEET

### SECTION 1 - IDENTIFICATION OF THE PRODUCT AND SUPPLIER

**Product Name**

Class A+ Recycled Water – **SPRINGFIELD**

**Other Names**

Recycled Water, Reclaimed Water.

**Approved Uses**

Subject to the existence of a compliant Recycled Water Management Plan, Class A+ recycled water may be used for:

**Residential**

1. Dual reticulated housing with toilet flushing, outdoor hosing and washdown, above-ground garden watering.

**Commercial**

2. Toilet and urinal flushing;
3. Commercial cooling and air conditioning involving a cooling tower or evaporative condenser; and
4. Retail nurseries not irrigating ready to eat crops.

**Agriculture**

5. Washdown of hard surfaces in agri-industries;
6. Irrigation of food crops consumed raw or minimally processed;
7. Irrigation of above-ground food crops with above-ground irrigation;
8. Irrigation of above-ground food crops with below-ground irrigation;
9. Irrigation of root crops;
10. Retail nurseries irrigating ready to eat crops;
11. Irrigation of silviculture, turf, cotton, and wholesale nurseries with controlled access;
12. Irrigation of pasture/fodder for dairy animals without withholding period; and
13. Irrigation of pasture/fodder for non-dairy other grazing animals with the exception of pigs.

**Open Space Irrigation**

14. Irrigation of above-ground active sporting field irrigation (i.e. football field);
15. Irrigation of above-ground open space irrigation, uncontrolled access;
16. Irrigation of open space with controlled access or subsurface irrigation; and
17. Irrigation of golf courses.

**Industrial processes**

18. Open system industrial process with potential for high human contact (i.e. car wash or quarry plant where aerosol generation is constant);
19. Open system industrial process with potential for occasional human contact but with safeguards in place; and
20. Closed system industrial process where there is low potential for human contact.

**Civil Works**

21. Concrete mixing;
22. Dust suppression;
23. Roadworks including sub-grade moisture correction;
24. Soil compaction;
25. Sewer flushing and re-lining;
26. Industrial boiler feedwater;
27. Concrete cutting;
28. Graffiti removal;
29. Fountains and water features with no primary or secondary contact; and
30. Natural or artificial wetlands.

In addition to any general recommendations given for control of risks to human and environmental health, an assessment of risks must be made on a site-by-site basis to determine controls appropriate to local circumstances.

**Prohibited Uses**

- Not suitable for any residential domestic uses other than for approved dual reticulation systems within a designated recycled water supply zone;
- Not suitable as source water for residential irrigation systems with on-site infrastructure (i.e. storage tanks, pipes, pumps etc) other than for approved dual reticulation systems within a designated recycled water supply zone;

## RECYCLED WATER INFORMATION SHEET

### Prohibited uses continued

- Not suitable for filling swimming pools;
- Not suitable for residential car washing;
- Not suitable for stock watering; and
- Not suitable for fire fighting.

### Supplier Name

Ipswich City Council (ICC)

### ABN

61 461 981 077

### Company Mailing Address

PO Box 191  
Ipswich Queensland 4305

### Emergency Telephone Number

07 3810 6666

## SECTION 2 - HAZARDS IDENTIFICATION

### Statement of Hazardous Nature

The product and mists and aerosols (spray) from this product are classified as non-hazardous according to the criteria of the National Occupational Health and Safety Committee (NOHSC - Worksafe Australia).

This product is not a dangerous good according to the Australian Dangerous Goods Code.

### Risk Phrases

- R22 Harmful if swallowed.  
R58 May cause long-term adverse effects in the environment.

### Safety Phrases

- S13 Keep away from food, drink and animal feeding stuffs.  
S20/21 When using, do not eat, drink or smoke.  
S24/25 Avoid contact with skin and eyes.  
S61/29 Avoid release to the environment, do not empty into drains.  
S64 If swallowed, rinse mouth with water.

## SECTION 3 - COMPOSITION

### This product:

- may contain a variety of living pathogenic micro-organisms and parasites, including viruses, bacteria, protozoa and helminths;
- contains nutrients nitrogen and phosphorus (refer to section 9 for more detail); and
- may contain measurable concentrations of dissolved metals, salts and organic material (refer to section 9 for more detail).

## SECTION 4 - FIRST AID MEASURES

### Ingestion

If swallowed, rinse mouth with water. If any abdominal symptoms occur, seek medical advice.

### Advice to a Doctor

Treat symptomatically.

## SECTION 5 - FIRE FIGHTING MEASURES

### Specific Hazards

Nil.

## RECYCLED WATER INFORMATION SHEET

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Avoid excessive exposure to spray or aerosols.  
Avoid excessive contact with skin, eyes and clothing.

#### Personal Protection

None required.

#### Environmental Precautions

Prevent overspray, ponding and run-off.  
Prevent from spreading or entering into drains, ditches, creeks or rivers.  
Report apparent environmental harm to Environmental Protection Agency and Ipswich Water.

### SECTION 7 - HANDLING AND STORAGE

#### Handling

Avoid excessive contact with skin, eyes and clothing. In addition to any specific recommendations given for controls of risks to health, safety and the environment, an assessment of risks must be made to help determine controls appropriate to local circumstances.

#### Storage

Use properly labeled and lockable storage tanks. Where recycled water is stored for more than 7 days, disinfection with a chlorine disinfectant should be maintained as follows:

1. Free Chlorine Residual between 0.3 and 0.7 mg/l;
2. pH 7.0 – 8.0; and
3. A suitable mixer or pump (with optional filter) should be installed to adequately mix the chlorinated recycled water prior to use.

#### Storage Temperature

Ambient.

#### Product Transfer

Avoid splash filling or leakage.

#### Other Information

Never siphon by mouth.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

The National Occupational Health and Safety Commission (NOHSC) [Worksafe Australia] has not assigned a National Occupational Exposure Limit to this specific product.

#### Exposure Controls

Use exclusion zones if there is a risk of excessive exposure to mists or aerosols (spray).

Avoid overspray, ponding or run-off in use of product.

#### Hand Protection

None required

#### Eye Protection

None required

#### Body Protection

Avoid excessive skin contact. Launder garments and undergarments regularly.

#### Environmental Exposure Controls

Prevent overspray, ponding or run-off. Minimize release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

## RECYCLED WATER INFORMATION SHEET

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Colour**

Clear.

**Physical State**

Liquid at ambient temperature.

**Odour**

None.

**Quality Data**

Table 1 – Class A+ Recycled Water - Springfield Water Quality Characteristics <sup>1</sup>

Parameter	Specification	Monitoring Point	Monitoring Freq.
<i>E.coli</i>	<1 cfu/100mL (median) <10 cfu/100mL (95%ile)	WRC Effluent	Weekly
<i>Clostridium perfringens</i>	<1 cfu/100mL (median) <10 cfu/100mL (95%ile)	WRC Effluent	Quarterly
F-RNA bacteriophage	<1 pfu/100mL (median) <10 pfu/100mL (95%ile)	WRC Effluent	Quarterly
Somatic coliphage	<1 pfu/100mL (median) <10 pfu/100mL (95%ile)	WRC Effluent	Quarterly
Turbidity	<2 NTU (median) <5 NTU (maximum)	WRC Effluent	Continuous
Free Chlorine Residual	<0.5 mg/L (minimum)	WRC Effluent	Continuous
pH	6.0-8.5 (range)	WRC Effluent	Continuous
Total Dissolved Solids*	<1000 mg/L (median)	WRC Effluent	Monthly
Conductivity*	<1600 mg/L (median)	WRC Effluent	Monthly

\*TDS and conductivity are not controlled by treatment process and may be subject to force majeure events such as drought and restrictions.

<sup>1</sup> Recycled water quality characteristics are taken from the 2005/2006 sampling period and are median values unless otherwise stated.

A complete list of analytes can be obtained from Ipswich Water upon request.

### SECTION 10 - STABILITY AND REACTIVITY

**Stability**

Stable (subject to Section 7 - Storage requirements).

### SECTION 11 - TOXICOLOGICAL INFORMATION

**Basis for Assessment**

Toxicological data has not been determined specifically for this product.

### SECTION 12 - ECOLOGICAL INFORMATION

**Basis for Assessment**

Eco-toxicological data has not been determined specifically for this product. Information given is based on knowledge of the components and the eco-toxicology of similar products.

**Eco-toxicity**

Expected to be non-toxic to algae, fish, aquatic invertebrates and microorganisms.

## RECYCLED WATER INFORMATION SHEET

### SECTION 13 - DISPOSAL CONSIDERATIONS

#### Precautions

Refer to Section 7 before handling the product or containers.

#### Product / Waste Disposal

Recycle or dispose of in accordance with prevailing regulations. Do not dispose to stormwater system. A trade waste approval will be required for disposal to sewer – contact the local Council.

### SECTION 14 - TRANSPORT INFORMATION

This product is not classified as a Dangerous Good in accordance with the Australian Dangerous Goods (ADG) Code for transport by road or rail.

### SECTION 15 - REGULATORY INFORMATION

#### National Legislation

- List of Designated Hazardous Substances [NOHSC:10005].
- Approved Criteria for Classifying Hazardous Substances [NOHSC:1008].
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].
- Australian Dangerous Goods Code.

### SECTION 16 - OTHER INFORMATION

#### References

For detailed advice on recycled water use and management controls refer to:

- Queensland Water Recycling Guidelines (EPA 2005).

For detailed advice on Personal Protective Equipment (PPE), refer to the following Australian Standards:

- HB 9 (Handbook 9) Manual of Industrial Personal Protection.
- AS/NZS 1337 Eye protectors for Industrial Applications.
- AS/NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices.
- AS/NZS 1716 Respiratory Protective Devices.

#### Further Information

The information contained in this Recycled Water Information Sheet (RWIS) is believed to be true and correct as of the issue date. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of Ipswich City Council, it is the responsibility of the user to determine the conditions of safe use of this product. Please consult the relevant legislation, regulations and guidelines governing the use and storage of this type of product.

#### IPSWICH WATER

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