



Agriculturally rich-Naturally beautiful

# COUNCIL POLICY

## Desalination Plant Policy

<b>Policy Number:</b>	PO145		
<b>Strategic Management Plan Goal:</b>	Goal 2 - Community Connected through Infrastructure		
<b>Policy Owner:</b>	Director Assets and Infrastructure	<b>File Number:</b>	16/14841[v2]
<b>Responsible Officer:</b>	Infrastructure Manager	<b>Minute Reference:</b>	145/2018 (13/06/2018)
<b>Date Adopted:</b>	13/06/2018	<b>Next Review Date:</b>	June 2023

### 1. POLICY OBJECTIVES

To facilitate the sustainable and compliant management of Council's seawater desalination plant whilst providing the Marion Bay community with high quality, affordable water.

### 2. SCOPE

This policy applies to the operation of Council's desalination plant and to all activities relating to the Yorke Peninsula Council's supply of desalinated water to the community.

### 3. DEFINITIONS

Desalination Plant	All equipment, infrastructure, products or materials including, but not limited to: pipes, conduits, associated fittings and apparatus, pumping stations, storage tanks, wells, drainage holes or other forms of works or earthworks, treatment facilities, testing/monitoring equipment, buildings/structures, pumps, telephone system, cables, modem, fences and swipe cards.
Occupier	A person who has, or is entitled to, lawful possession or control of land or a place.
Potable Water	Water intended for human consumption and domestic use.
Water Quality	The concentration of certain substances in water for specific uses, in accordance with water quality criteria set out in the Environment Protection (Water Quality) Policy.

### 4. POLICY STATEMENT

#### 4.1 Purpose and Use

Council owns and operates a seawater desalination plant at Marion Bay. Marion Bay is a remote area and is fifty (50) kilometres from the nearest SA Water service point.

The plant produces and provides a primary potable water supply to Council's public toilets, the Marion Bay Caravan Park, Marion Bay Tavern, Marion Bay Motel, Marion Bay Seaside Apartments and the Marion Bay General Store and Jetty Cafe. Meters have been installed to measure the amount of water used by the properties supplied, and Council invoice for the supply on a monthly basis.

A secondary potable water supply is available to the Marion Bay community via a permit and swipe card dispenser system. Swipe cards are issued from the Marion Bay Caravan Park, and the water is dispensed from a Moneco water pumping station located at the Marion Bay desalination plant.

Members of the community may cart their own water or, alternatively, engage a licensed water carrier. Any costs incurred by a member of the community in engaging a licensed water carrier are to be directly negotiated and met by that person. Council does not provide a water carting service or engage contractors on behalf of the community.

A 15m beach well feeds a controlled supply of seawater to the plant. Information is transmitted to and from the plant/well via a modem. The well is situated on Crown Land and the State Government has delegated care and control of the land to Council via Government Gazette (State Government reference 5763 folio 735).

As a supplier of desalinated water, Council is considered a water industry entity under the Water Industry Act 2012.

Additional requests for primary supply will be assessed and considered by Council on a case-by-case basis, based on a full analysis of the infrastructure required, land and resource capability, and a risk assessment.

#### **4.2 Environmental Management**

Potential environment impacts have been considered and appropriate mitigation strategies are in place. All Environment Protection Authority requirements at installation have been satisfied, and Council continues to monitor the environmental performance requirements relating to:

- the marine environment;
- waste management;
- flora and fauna;
- site contamination;
- noise levels;
- air quality; and
- sustainability.

The desalination plant will continue to be managed based on best practice environmental management principles.

#### **4.3 Water Quality**

Supplying safe drinking water is an absolute priority. The desalinated water provided to the community by Council complies with all health standards and meets Australian drinking water guidelines. Council will continue to monitor and test the desalinated water against stringent water quality criteria.

#### **4.4 Noise Control**

Council's ability to control the amount of noise emitted from the desalination plant is a critical public health issue. Council will continue to regularly monitor and control noise levels to ensure compliance with all health and environmental standards.

Council, at any reasonable time, can enter any property necessary to test noise levels and/or take any action deemed necessary by Council to control noise pollution relating to the water supplied under this policy.

**4.5 Power Supply**

Desalination plant power is supplied by SA Power Networks. Electricity is charged at an agreed annual rate, with the exception of the beach well and its associated equipment, which has its own power supply and runs at an agreed cost per kilowatt (kW) basis.

In addition Council has installed a 10kW solar bank to help reduce electricity costs.

**4.6 Maintenance**

Council have a regular management/maintenance program in place to ensure that the desalination plant complies with all legislative requirements and meets all technical and safety standards. The Director Assets and Infrastructure Services is responsible for overseeing the program.

Suitably qualified contractors who specialise in such systems are engaged by Council to undertake comprehensive plant maintenance and service work on a regular basis. Council staff have also undertaken training to enable them to undertake regular day-to-day monitoring, maintenance and overall running of the plant.

Under the Water Industry Act 2012, Council, at any reasonable time, can enter any property necessary to construct, install, improve, add to, inspect, operate, maintain, test, repair, alter, remove, replace, or make safe desalination plant infrastructure, and/or equipment and/or perform any other work, as necessary, in connection with the desalination plant.

**4.7 Chlorine Management**

Chlorine is stored at the desalination plant for use during the water treatment process and is managed in accordance with Council's Hazardous Chemical Procedure (PR102).

**4.8 Customer Responsibilities**

Occupiers of properties receiving a primary supply of desalinated water are responsible for ensuring that any equipment located on the property relevant to the desalination plant complies with any relevant technical or safety requirements and is kept in good repair. All reasonable steps must be taken to prevent any water running to waste on the property.

A person must not, without Council consent, construct or place a building, wall, fence or other structure on or over any desalination plant infrastructure, or attach any equipment/thing, or interfere with the collection, storage, production, treatment, movement or supply of the desalinated water.

**4.9 Fee for Use**

Council's Fees and Charges Register (R011) sets out the fees/charges relating to the supply of desalinated water.

Council takes into account a range of different factors when setting the fees for providing desalinated water, including the cost to deliver and maintain the desalinated water service. Prices in South Australia are guided by the pricing principles outlined by the National Water Initiative, in line with the South Australian Government's commitment to statewide pricing. Council's pricing is also regulated by the Essential Services Commission of South Australia.

#### **4.10 Water Supply**

The quantity of water available from the desalination plant is a restricted supply. Council are unable to guarantee the amount of water supplied because of the potential for a reduction in the quantity of water available, or an increase in demand.

### **5. COMPLAINTS**

Complaints relating to the desalination plant and/or the water supply can be made in writing to the Director Assets and Infrastructure Services.

### **6. REVIEW**

This policy will be reviewed every five (5) years and as necessary in consideration of any changes to legislation and relevant standards, codes and guidelines.

### **7. TRAINING**

Regular, scheduled training will continue for Council staff undertaking the maintenance program as required. Training needs will also be identified through the performance review and audit processes. Training will also occur in response to changes to legislation and relevant standards, codes and guidelines.

#### **7.1 Water Industry Officers**

Water Industry Officers have been appointed by Council as detailed in Council's Register of Delegations (R007).

### **8. RELATED COUNCIL POLICIES AND DOCUMENTS**

PO091 Risk Management  
PR016 Hazard Management  
PR099 Confined Space Management  
PR101 Remote or Isolated Work  
PR102 Hazardous Chemical Procedure  
PR104 Hazardous Manual Tasks  
PO006 Contractor Management  
PR114 Contractor Management  
R007 Register of Delegations  
R011 Fees and Charges Register

### **9. REFERENCES AND LEGISLATION**

Dangerous Substances Act 1979  
Environment Protection Act 1993  
Environment Protection (Water Quality) Policy 2015  
Food Act 2001  
Local Government Act 1999  
South Australian Public Health Act 2011  
Water Industry Act 2012  
Water Resources Act 1997  
Work Health and Safety Act 2012

Work Health and Safety Regulations 2012  
National Water Initiative  
National Water Quality Management Strategy  
Australian and New Zealand Guidelines for Fresh and Marine Water Quality  
Australian Drinking Water Guidelines

#### **10. COUNCIL DELEGATION**

<b>Delegate:</b>	Nil
<b>Sub Delegate:</b>	

#### **11. VERSION HISTORY**

Archived Policy Name	Policy Number	Date Adopted	Last Reviewed
Desalination Plant Policy	PO145	10/10/2012	13/06/2018