(REVIEW) URBAN WATER QUALITY POLICY NAME:

POLICY REF: U05

MEETING ADOPTED: 22 October 2015

Resolution No. 221015/22

POLICY HISTORY:



TABLE OF CONTENTS

OBJECTIVE	1
POLICY	1
BACKGROUND	2
Need for a PolicyRelevance of Related Documentation	
DEFINITIONS	
SCOPE OF POLICY	
RELATED DOCUMENTATION	7
REVIEW	7

(REVIEW) Urban Water Quality Policy

Ballina Shire Council

OBJECTIVE

Provide effective Water Quality Management Systems to ensure waters produced (Drinking Water and Recycled Water) the quality of drinking and recycled water supplied to consumers or and the impacted upon waterways by Council's Wastewater Operations meets legislative, consumer and other regulatory requirements and Nation Water Quality Management Strategy requirements.

POLICY

Ballina Shire Council is committed to managing its Drinking and Recycled Water Supplies and Wastewater Services effectively to provide a safe, high-quality urban water that consistently meets the requirements of the Australian Drinking Water Guidelines, the Australian Guidelines for Water Recycling and the water quality requirements of Council's Environmental Protection Licenses, consumer needs and expectations, and other regulatory requirements. To achieve this, in partnerships with stakeholders and relevant agencies, Ballina Shire Council will:

- manage water quality using a multi-barrier approach at all points along the delivery chain from source water (through supply agreements where the source water is managed by Rous Water County Council and trade waste agreements where the source water is a trade waste) to the consumer or end point;
- use a risk-based approach in which potential threats to urban water quality are identified and balanced;
- integrate the needs and expectations of our consumers, stakeholders, regulators and employees into our planning;
- establish regular monitoring of the quality of urban water and effective reporting mechanisms to provide relevant and timely information, and promote confidence in the water supply and its management;
- develop appropriate contingency planning and incident response capability;
- participate in appropriate research and development activities to ensure continued understanding of urban water quality issues and performance;
- contribute to the debate on setting industry regulations and guidelines, and other standards relevant to public health and the water cycle;
- continually improve our practices by assessing performance against corporate commitments and stakeholder expectations.

Ballina Shire Council will implement and maintain water quality management systems consistent with the National Water Quality Management Strategy Guidelines (Australian Drinking Water Guidelines, Australian Guidelines for Water Recycling, Guidelines for Sewerage Systems, Australian guidelines for water quality monitoring and reporting Australian and New Zealand Guidelines for Fresh and Marine Water Quality) to effectively manage the risks to urban water quality.

All managers and employees involved in the supply of urban water are responsible for understanding, implementing, maintaining and continuously improving the urban water quality management systems.

Page 1 of 7 Policy No. U05

Ballina Shire Council

(REVIEW) Urban Water Quality Policy

BACKGROUND

Need for a Policy

The urban water quality policy defines Council's commitments and priorities relating to urban water quality. Organisational support and long-term commitment by senior management is the foundation to implementation of an effective systems requires:

- an awareness and understanding of the importance of urban water quality management and how decisions affect the protection of public and environmental health;
- the development of an organisational philosophy that fosters commitment to continual improvement and cultivates employee responsibility and motivation;
- the ongoing and active involvement of senior management to maintain and reinforce the importance of urban water quality management to all employees as well as those outside the organisation.

Development of an urban water quality policy is an important step in formalising the level of service to which Ballina Shire Council is committed. It will increase the focus on water quality management throughout the organisation. The policy provides the basis on which all subsequent actions can be judged. It defines the organisation's commitments and priorities relating to urban water quality.

The policy forms the basis for development of more detailed policies and implementation strategies to support the effective management of urban water quality (e.g. appropriate staffing, training of employees, provision of adequate financial resources, active participation and reporting protocols).

Relevance of Related Documentation

National Water Quality Management Strategy

The National Water Quality Management Strategy (NWQMS) is a nationally agreed approach to managing joint national approach to improving water quality in Australian and New Zealand waterways. It was originally endorsed by two Ministerial Councils—the former Agriculture and Resources Management Council of Australia and New Zealand (ARMCANZ) and the former Australian and New Zealand Environment and Conservation Council (ANZECC). Since 1992 the NWQMS has been, developed by the Australian and New Zealand Governments in cooperation in partnership with state and territory governments. Ongoing development is currently overseen by the Standing Council on Environment and Water (SCEW) and the National Health and Medical Research Council (NHMRC).

The NWQMS aims to protect the nation's water resources, by improving water quality while supporting the The NWQMS focuses on understanding and protecting water quality so that it is suitable for its intended use and meets community values including businesses, industry, environment and communities that depend on water for their continued development.

The NWQMS consists of three major elements:

1. Policy
2. Process

Guidelines

Page 2 of 7

Policy No. U05

Ballina Shire Council

(REVIEW) Urban Water Quality Policy

The key elements in the NWQMS relevant for Council's management of or urban water quality managements are the guidelines, in particular the: documents provided as part of the NWQMS. Particularly;

- Australian Drinking Water Guidelines (ADWG)
- Australian Guidelines for Water Recycling (AGWR)
- Guidelines for Sewerage Systems
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality
- Australian guidelines for water quality monitoring and reporting

The guidelines provide a solid foundation for assessing water quality by providing a framework for risk management and specifying health-based, environmental and aesthetic criteria.

Drinking Water and Recycled Water Guidelines

The ADWG and AGWR promote the management of water quality through For systems that supply water (Drinking Water and Recycled Water) this is embodied in the guidelines as the philosophy of a multiple barrier approach from catchment to tap to ensure the safety of the water and through the "Framework for Management of Water Quality".

The ADWG-Guidelines are directed by seven six fundamental principles vital to ensuring safe drinking water quality:

- The greatest risks to consumers of water are pathogenic microorganisms.
 Protection of water sources and treatment are of paramount importance and must never be compromised.
- The drinking water system must have, and continuously maintain, robust multiple barriers appropriate to the level of potential contamination facing the water supply.
- Any sudden or extreme change in water quality, flow or environmental conditions (e.g. extreme rainfall or flooding) should arouse suspicion that water might become contaminated.
- System operators must be able to respond quickly and effectively to adverse monitoring signals.
- System operators must maintain a personal sense of responsibility and dedication to providing consumers with safe water, and should never ignore a consumer customer complaint about water quality.
- Ensuring drinking water safety and quality requires the application of a considered risk management approach.

The approach to risk management in the AWRG is modelled closely on the ADWG.

The Framework for Management of Water Quality (the "Framework") is a preventive approach to assuring water quality. The Framework addresses four general areas describing good management of a water supply system:

- Commitment to water quality management.
- System analysis and management: Understanding the entire water supply system, the hazards and events that can compromise water quality, and the preventive measures and operational control necessary for assuring safe and reliable drinking water.

Page 3 of 7 Policy No. U05

(REVIEW) Urban Water Quality Policy

Ballina Shire Council

- Supporting requirements: Activities and attitudes that support management of the supply system such as employee training, community involvement, and validation of the effectiveness of processes.
- Review: The evaluation and audit of the effectiveness of the management system, and the adoption of improvements based on the evaluation.

The Guidelines give greater detail on how the Framework can be incorporated into the activities of a water utility... Figure 1 is a diagram of the Framework, showing the interactions of its different elements for Drinking Water. The Framework is identical for Recycled Water.



Figure 1 - Framework for Management of Drinking Water Quality

Wastewater (Sewage)

The National Water Quality Management Strategy NWQMS Guidelines for Sewerage Systems do not replicate the same framework. Despite this, Council sees there are benefits in managing its wastewater operations using the same framework, in particular:

- It is compatible for the Guidelines for Sewerage Systems
- It provides a robust way of managing wastewater operations
- It offers consistency across Council, and as such more synergies can be realised
- Wastewater Treatment Plants are also Recycled Water Treatment Plants and much of the risk mitigation measures are the same
- The staff, management and reporting structure for Drinking Water, Recycled Water and Wastewater are the same

Part 5 Public Health Act 2010

The Public Health Act 2010 and Public Health Regulation 2012 provides the NSW regulatory mechanism for compliance with the ADWG. This has recently been embodied in Part 5 of the Public Health Regulation requires suppliers of drinking water to have a quality assurance program addressing the elements of the ADWG Framework.

Page 4 of 7 Policy No. U05 Ballina Shire Council

Part 5 Safety measures for drinking water

27 Quality assurance programs

- (1) For the purposes of section 25 (1) of the Act, a quality assurance program must address the elements of the Framework for Management of Drinking Water Quality (as set out in the Australian Drinking Water Guidelines published by the National Health and Medical Research Council) that are relevant to the operations of the supplier of drinking water concerned.
- (2) A supplier of drinking water must provide a copy of its quality assurance program to the Director-General.
- (3) The Director-General may arrange for the review of a quality assurance program of a supplier of drinking water at any time.
- (4) The Director-General may make quality assurance programs and any reviews of such programs publicly available.

Section 60 Local Government Act 1993

The Local Government Act provides the authority of the Minister for Energy and Environment Primary Industrials to approve a recycled water scheme and apply conditions (such as the condition to manage the risks to recycled water quality using the risk based framework in the AGWR Australian Guidelines for Water Recycling).

Council works for which the approval of the Minister for Primary Industries is required

A council must not, except in accordance with the approval of the Minister for Primary Industries, do any of the following...

(c) as to sewage—provide for sewage from its area to be discharged, treated or supplied to any person...

NSW DPI Water Publication: Recycled Water Management Systems

[DPIE Water] encourages and adopts the [Australian Guidelines for Water Recycling] framework for approving local water utility recycled water schemes under section 60 of the Local Government Act 1993 or s292 of the Water Management Act 2000. Demonstrating compliance with the AGWR is ideally achieved with having a documented risk-based recycled water management system (RWMS) in place.

Section 48 Protection of the Environment Operations (POEO) Act 1997

The POEO Act provides Council with the Environmental Protection Licences necessary to legally operate its wastewater treatment plants. It also contains penalties for non-compliance and requirements to operate infrastructure in a 'competent manner'.

Licensing requirement—scheduled activities (premises-based)

Page 5 of 7 Policy No. U05

(1) Application of section

This section applies to scheduled activities where Schedule 1 indicates that a licence is required for premises at which the activity is carried on. [ie Sewerage Treatment]

(2) Offence

A person who is the occupier of any premises at which any such scheduled activity is carried on is guilty of an offence, unless the person is, at the time that activity is carried on, the holder of a licence that authorises that activity to be carried on at those premises.

DEFINITIONS

Drinking Water Drinking Water is used for drinking and direct contract purposes

(cooking, showering etc). It sourced from surface waters, ground

waters, rain water or ocean waters

ADWG The Australian Drinking Water Guidelines – a document that sets

out the water quality requirements and risk management practices

to operate a drinking water supply

DWMS A Drinking Water Management System; a document that

describes how Council's management practices comply with the

ADWG

Recycled Water Water used for non-drinking and non-direct contract purposes

(toilet flushing, laundry, irrigation etc.). Sourced from wastewater

AGWR The Australian Guidelines for Water Recycling – a document that

sets out the water quality requirements and risk management

practices to operation a recycled water supply

RWMS A Recycled Water Management System; a document that

describes how Council's management practices comply with the

AGWR

Wastewater Water collected from Council's wastewater network from

residential or commercial (trade waste) premises and treated prior

to discharge to the environment or reuse

EPL An Environmental Protection Licence authorises Council to

discharge treated wastewater to the environment at set locations

with certain water quality requirements

PIRMP A Pollution Response Incident Management Plan which stipulate

how Council responds to Wastewater incidents to comply with the

requirements of the POEO Act for its licenced facilities

WWMS A Wastewater Water Management System; a document that

describes how Council's management practices comply with its

EPLs and the POEO Act

Page 6 of 7 Policy No. U05

(REVIEW) Urban Water Quality Policy

Ballina Shire Council

SCOPE OF POLICY

This policy applies to:

- Council employees
- Councillors
- Community members
- Council owned-businesses
- Committees of Council
- Consultants/Contractors

RELATED DOCUMENTATION

Related documents, policies and legislation:

- Public Health Act 2010 (NSW)
- Local Government Act 1993 (NSW)
- Protection of the Environment Operations Act 1997 (NSW)
- National Water Quality Management Strategy guidelines Documents
 - Australian Drinking Water Guidelines
 - Guidelines for Sewerage Systems Effluent Management
 - Guidelines for Sewerage Systems Sludge (Biosolids) management
 - Guidelines for Sewerage Systems Use of Reclaimed Water
 - Guidelines for Sewerage Systems Sewerage System Overflows
 - Guidelines for Sewerage Systems Acceptance of Trade Waste (Industrial
 - Australian Guidelines for Water Recycling (Phase 1)
 - Australian guidelines for water quality monitoring and reporting
 - Australian and New Zealand Guidelines for Fresh and Marine Water Quality
- Ballina Shire Urban Water Management Strategy
- Community Strategic Plan 2010-2025
- Strategic Business Plan for Water Supply & Wastewater Services (2010)
- Developer Servicing Plans for Water Supply and Wastewater Services 2015
- Agreement with Rous Bulk Supply July 2014
- Rous County Council Service level agreement 2017

REVIEW

The Urban Water Quality Policy is to be reviewed every four years.

Page 7 of 7

Policy No. U05