
NARROMINE SHIRE COUNCIL
ORDINARY MEETING BUSINESS PAPER – 9 OCTOBER 2019
REPORTS TO COUNCIL – INFRASTRUCTURE AND ENGINEERING SERVICES

1. WORKS REPORT

Author	Director Infrastructure and Engineering Services
Responsible Officer	Director Infrastructure and Engineering Services
Link to Strategic Plans	CSP – 4.3.4 Ensure Council's property assets are monitored and well managed

Executive Summary

This report provides information regarding works undertaken for the given period in regards to both operational and capital works.

Report

The Works Report (**Attachment No. 1**) for the period 7 September 2019 to 4 October 2019 is presented to Council for their information.

Financial Implications

Council has provision for these services in its 19/20 Operational Budget.

Legal and Regulatory Compliance

Local Government Act 1993
Roads Act 1993

Risk Management Issues

Nil

Internal/External Consultation

Nil

Attachments

1. Works Report

RECOMMENDATION

That the information be noted.

2. DRINKING WATER QUALITY POLICY

Author	Manager Utilities
Responsible Officer	Director Infrastructure and Engineering Services
Link to Strategic Plans	CSP – 3.2 We are sustainable, environmental community with great appreciation of our natural assets.

Executive Summary

This report is presented to Council to consider Council's Drinking Water Quality Policy.

Report

Council is committed to the sustainable supply and management of safe, high quality drinking water in the community. This policy provides a basis for the operation of Council's water supply involving catchments, storages, water treatment facilities and the distribution system.

Council is responsible for providing a safe, reliable and cost effective drinking water supply, which is customer focused, enhances the environment and caters for the sustainable growth of the Shire. There is a commitment to consistently meeting or exceeding the 2011 Australian Drinking Water Guidelines (ADWG), consumer and other regulatory requirements. Council will implement and maintain a drinking water quality management system consistent with the ADWG to effectively manage the risks associated with public and environmental health.

Accordingly, Council's Drinking Water Quality Policy has been created (**Attachment No. 2**).

Financial Implications

There are no financial implications to Council.

Legal and Regulatory Compliance

Water Management Act, 2000
Local Government Act, 1993
Australian Drinking Water Guidelines
National Water Quality Management Strategy, 2018
NSW Public Health Act 2010 No 127
NSW Public Health Regulation 2012

Risk Management Issues

Compliance with drinking water requirements under Public Health Act and Regulation.
Reputational – Risk Minimisation.

2. DRINKING WATER QUALITY POLICY (Cont'd)

Internal/External Consultation

There is no requirement to place the policy on public exhibition.

Attachments

1. Drinking Water Quality Policy

RECOMMENDATION

That Council adopt the Drinking Water Quality Policy.

3. NARROMINE WETLANDS EXTENSION

Author	Director Infrastructure and Engineering Services
Responsible Officer	Director Infrastructure and Engineering Services
Link to Strategic Plans	CSP - 3.1 Manage our Natural Environments for Current and Future Generations.

Executive Summary

This report provides an update regarding the Narromine Wetlands extension.

Report

Council received a grant of \$2.492 Million from the State Government for the extension of the Narromine Wetlands early in January 2019.

Concept layouts, irrigation, footpath and a bridge design is in the process of being finalised, with the aim of construction of the first stage within the new year. A delay in the programme occurred, since a site for the future water treatment plant has been identified in close proximity of the proposed ponds. This resulted in some rework in the final layout of the ponds. Geotechnical investigations have been completed and a Review of the Environment Factors (REF) is currently being undertaken.

The first stage will consist of ponds, vehicle crossings, viewing platforms, stormwater channels, car park, gates, fencing, gravel pathways, interpretive signs, vegetation, irrigation system shelters and solar path lighting. The second and third stages will follow a similar approach. The total storage for this extension is approximately 270ML.

Stormwater drainage systems to the wetlands are being reviewed to confirm that appropriate pipe sizes and pre-treatment devices such as gross-pollutant traps is provided at identified locations.

3. NARROMINE WETLANDS EXTENSION (Cont'd)

It is anticipated that all the stages of the project will be completed in July 2022, as per the conditions in the funding deed.

Financial Implications

Council has received \$2.492 Million for the Wetlands Redevelopment.

Legal and Regulatory Compliance

State Environmental Planning Policy (Infrastructure) 2007.
NSW Environmental Planning and Assessment Regulations, 2000 for the REF

Risk Management Issues

Nil

Internal/External Consultation

Nil

Attachments

Nil

RECOMMENDATION

That the information in the report be noted.

4. TOWNSHIPS WATER SUPPLY

Author	Director Infrastructure and Engineering Services
Responsible Officer	Director Infrastructure and Engineering Services
Link to Strategic Plans	CSP – 4.3.4 Ensure Council's property assets are monitored and well managed.

Executive Summary

This report provides information regarding and update on water security and on the progress of the temporary water treatment plant for Narromine and water restrictions for Trangie and Tomingley.

4. TOWNSHIPS WATER SUPPLY (Cont'd)

Report

a. Narromine

Drinking water for Narromine is supplied from groundwater. Council introduced Level 3 Water Restrictions in January 2019. Since then a 10% reduction in consumption has been observed. The community is thanked for their cooperation to date.

An extra 5% decrease in demand is required to achieve target demands under Level 3 Water Restrictions. Bore 8 will be redrilled later this year to try and improve its yield.

Two of Narromine's shallow bores, that supply drinking water to Narromine, have failed due to water levels being below the screens. Council's remaining shallow bores and 1 deep bore could provide a sustainable supply to meet peak day demands under Level 3 Water restrictions. Unfortunately, the deep bore has elevated iron and manganese concentrations which may have an aesthetic impact on drinking water from time to time. Some discoloration of drinking water may occur. Water from Council's other deep bores (Bore 6D and 7D) do not meet drinking water guidelines.

Council received a grant of \$2 Million from the State government in June 2019. Council is in the process of completing the funding deed for submission to the Department of Planning Industry and Environment (DPIE) - Water. As a result, Council has consulted with DPIE- Water to obtain approval for the installation/ construction of a temporary water treatment plant to remove iron and manganese from its deep bores. This process is ongoing and additional studies have recently been completed with regards to waste/sludge management and disposal. These studies are subject to an options analyses and potentially a peer review to determine the best treatment outcome. Consideration is given to potentially upgrade these facilities (waste management) to incorporate those into the future permanent treatment plant. Council has identified a site for a treatment plant and the required environmental and geotechnical studies is being undertaken to inform the design and other approvals processes.

NSW State Water has advised Council that as a result of the Macquarie River being in a Stage 4 critical water shortage, all General Security Water Allocations and Carry Over Allocations have been cancelled as of 1 July 2019.

In order to maintain public amenity and community wellbeing, Council has issued exemptions for some of its parks, ovals and recreational areas. (**Attachment No. 3**).

Council has stopped the watering of all other parks and playground areas which are not on the list.

It is not anticipated that Narromine will go to Level 4 Restrictions, provided that customers do not misuse water, water quality does not deteriorate, bore levels recover adequately or, a failure at one of its bores does not occur.

b. Trangie

Drinking water for Trangie is supplied from groundwater. While a steady decline in groundwater levels have been observed, the ground water source seems to remain

4. TOWNSHIPS WATER SUPPLY (Cont'd)

sustainable. An increase in standpipe usage has been observed. Trangie will go to Level 2 Water Restrictions on 7 October 2019 to protect the groundwater resource

and to remain within its ground water allocation. Trangie has been identified as a potential short term emergency supply for Narromine.

It is not anticipated the Trangie will go to Level 3 Water Restrictions provided that customers do not misuse water, water quality does not deteriorate, water levels recover adequately or, if a failure at one of its bores does not occur.

c. Tomingley

Non-drinking water is pumped to Tomingley by the Alkane pipeline from a property near Narromine. Ground water is pumped into two dams and groundwater levels from the bore is continuing to show a decline. While the demand for Tomingley is small when compared to Narromine and Trangie, Level 2 Water Restrictions will be imposed from 7 October 2019 to protect the groundwater resource.

It is not anticipated the Tomingley will go to Level 3 Water Restrictions provided that customers do not misuse water, water levels recover adequately or, if Alkane request Council to review its water operations.

Financial Implications

Council received a grant of \$2.0 Million regarding the provision of a temporary water treatment plant for iron and manganese removal and associated works.

Council has made allowance in its annual budget for emergency/drought works in the water reserve.

Legal and Regulatory Compliance

Section 60 of the Local Government Act, 1993

Public Health Act, 2010

Local Government Regulations, 2005

Compliance and Enforcement Policy. Council's ranger actively enforces water restrictions in Narromine.

Compliance with the Australian Drinking Water Guidelines

Risk Management Issues

Water conservation and demand management measures to monitor and control water usage.

Communication with consumers to protect drinking water and Council's reputation. Continual liaison with NSW Health, DPIE- Water, and other agencies regarding approvals processes

4. TOWNSHIPS WATER SUPPLY (Cont'd)

Timely procurement and construction or installation of appropriate treatment units. Deferment of water projects in order to maintain public health and to meet firefighting requirements.

Internal/External Consultation

Consultation/ communication with consumers in townships to provide accurate information timely.

Continual liaison with NSW Health, DPIE- Water, and other agencies regarding approvals processes

Attachments

1. Water exemption table

RECOMMENDATION

That the information in the report be noted.

André Pretorius
Director Infrastructure and Engineering Services

 <p>Narromine SHIRE COUNCIL</p>	<p>MONTHLY WORKS REPORT</p> <p>Friday, 4 October 2019</p>	<p>Infrastructure and Engineering Services Narromine Shire Council Tel: 02 6889 9999 Fax: 02 6889 9998 mail@narromine.nsw.gov.au</p>
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Road and Park users are to proceed with caution at all work sites and observe work signs to ensure safety.
Speed zones are enforceable with possible short delays.
For all enquiries, please contact Council's Infrastructure and Engineering Services Department on 6889 9999.

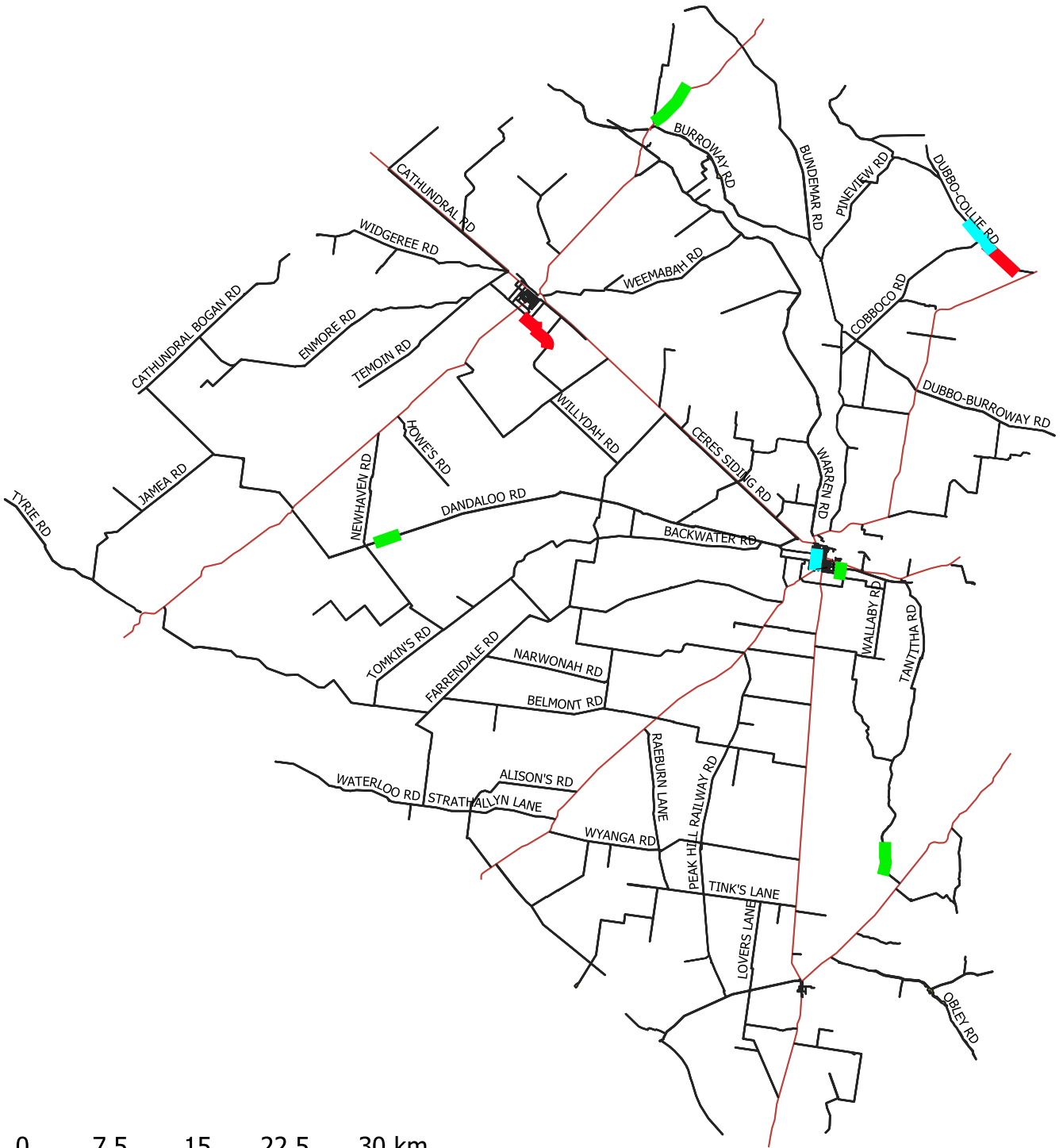
URBAN ROADS – Narromine, Trangie, Tomingley	
Various Streets (Narromine)	<p><u>Maintenance:</u></p> <ul style="list-style-type: none"> • Routine Maintenance Program such as patching and sweeping, etc.
Various Streets (Trangie)	<p><u>Maintenance:</u></p> <ul style="list-style-type: none"> • Routine Maintenance Program such as patching and sweeping, etc.
Various Streets (Tomingley)	<p><u>Maintenance:</u></p> <ul style="list-style-type: none"> • Routine Maintenance Program such as patching and street sweeping, etc.
UNSEALED ROADS NETWORK	
Various Unsealed Roads	<p><u>Maintenance: Map No. 1</u> Maintenance Grading in progress or completed;</p> <ul style="list-style-type: none"> • Strathalyn Road • Trangie Golf Club Road • Trangie Tip Road • Ellengerah Road <p><u>Capital: Map No. 2</u></p>
SEALED ROADS NETWORK	
Various Sealed Roads	<p><u>Capital:</u> In progress or completed;</p> <ul style="list-style-type: none"> • Willydah Road (first section) • Dubbo Collie Road first 1km full rehab and drainage complete and guide posts installed • Dubbo Collie Road second 1km full rehab has commenced <p><u>Maintenance:</u> in progress or completed;</p> <ul style="list-style-type: none"> • Strathalyn Road full shoulder grade completed • Enmore Road shoulder grade and drainage complete • Trangie Dandaloo Road 5km reinstated shoulders complete • Wambianna Road • Trangie Saleyards Road shoulder grade complete • Burroway Road shoulder grade commenced
SWIMMING POOLS	
Narromine Pool	<ul style="list-style-type: none"> • Tiling of pools has commenced and underground balance tanks have been formed. • Lifeguards have been interviewed and recruitment is progressing. • BBQ area is complete.

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SWIMMING POOLS CONT.	
Trangie Pool	<ul style="list-style-type: none"> • Pump commissioning is in progress within the new pump shed. New turf has been laid and irrigation repairs completed. • BBQ installed • Paving of the marshalling area is complete. • Lifeguards have been interviewed and recruitment is progressing.
PARKS AND OPEN SPACE NETWORK CBD Gardens, Parks, Ovals, Villages	
Narromine CBD	<ul style="list-style-type: none"> • General maintenance and mowing.
Narromine Parks and Reserves	<ul style="list-style-type: none"> • General maintenance, mowing and weed control.
Narromine Sports Grounds	<ul style="list-style-type: none"> • General maintenance and mowing. • Fertilising of Dundas Oval and Payten Oval complete.
Narromine Streets	<ul style="list-style-type: none"> • First stage of Main St garden bed installation and planting complete.
Trangie CBD	<ul style="list-style-type: none"> • General maintenance and weed control ongoing.
Trangie Parks	<ul style="list-style-type: none"> • General maintenance and mowing.
Trangie Sports Grounds	<ul style="list-style-type: none"> • Top dressing and fertilising of Burns Oval complete.
Trangie Streets	<ul style="list-style-type: none"> • General maintenance. Street sweeping weekly on Tuesday's. Tree pruning commenced.
Tomingley Village	<ul style="list-style-type: none"> • Town Maintenance services have been contracted out, commenced October 2019.
AERODROME	
Narromine Aerodrome	<ul style="list-style-type: none"> • Tree trimming, slashing and weed control continue
BUILDING MAINTENANCE	
All Buildings	<ul style="list-style-type: none"> • General maintenance as required
Vandalism	<ul style="list-style-type: none"> • Vandalism at Council facilities still continues
Narromine Medical Centre	<ul style="list-style-type: none"> • General maintenance as required
Council Administration Buildings	<ul style="list-style-type: none"> • Upgrades to the toilets to commence shortly
PUBLIC CONVENIENCES	
Rotary Park (Narromine) Public Toilets	<ul style="list-style-type: none"> • Toilet facilities cleaned daily
Burraway Street Public Toilets (adjacent to Pool)	<ul style="list-style-type: none"> • Toilet facilities cleaned daily
Argonauts Park (Trangie) Public Toilets (Goan Waterhole)	<ul style="list-style-type: none"> • Toilet facilities cleaned every Tuesday, Thursday and Saturday
Dandaloo Street Trangie (adjacent to Bakery)	<ul style="list-style-type: none"> • Toilet facilities cleaned every Monday, Wednesday and Friday

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PUBLIC CONVENIENCES CONT.	
Narromine and Trangie Truck Wash	<ul style="list-style-type: none"> • Waiting for outcome of land acquisition process for the Trangie Truck wash
Wetlands	<ul style="list-style-type: none"> • Wetland project continues progressing with preliminary designs being received. Adjustments to layout of ponds to be made due to water treatment plant site requirements. • Toilet block secured and cleaned daily
CEMETERIES	
Narromine Cemetery	<ul style="list-style-type: none"> • Irrigation renewal completed. • General maintenance continues • Headstone extension in progress.
Trangie Cemetery	<ul style="list-style-type: none"> • General maintenance, mowing and weed spraying • Topping up of subsiding graves continues.
WATER AND SEWER	
Tomingley	<ul style="list-style-type: none"> • Continued regular system maintenance at water treatment plant. Filter has reached its end of life and will be replaced.
Trangie	<ul style="list-style-type: none"> • Staff have continued reticulation system maintenance • Contractors are continuing fencing of Waste Water Treatment Plant maturation ponds • Staff have commenced filling and continued with upgrade works on the chemical dosing equipment installation at the Trangie Swimming Pool • Staff have continued with numerous service repairs on the extremities of the Trangie system
Narromine	<ul style="list-style-type: none"> • Ground works have continued at Duffy Street reservoir in preparation for sealing of the reservoir yard to complete the overall refurbishment project • Utilities Manager and Tech Officer have continued further yield and chemical analysis of all bores in the Narromine system in preparation for the next summer season including development of a water balance. • Staff have continued works involved in the construction and upgrades at Narromine Pool • Staff are continuing with hydrant and valve maintenance. Staff are continuing with the re-mapping via GPS of the Narromine Water reticulation system. • Regular Drinking Water Quality sampling and analysis continues along with extra sampling involved with new bore connections and system upgrading activities. • Staff and Contractors have completed installation of Online Turbidity Monitoring Equipment at the point of Chlorination which is in-line with NSW Health directives to all NSW water distributors



Narromine Shire Council

Council Report - Capital

█ August

█ July

█ September



Note - the roads highlighted are visual purposes only and may not be the exact location of work



DRINKING WATER QUALITY POLICY

Version No.	Responsible Department	Prepared By	Date First Created	Review Date	Adopted Date Resolution No.
1.0	Engineering & Infrastructure Services	Project Officer	16 August 2019	4 years	

1. PURPOSE

Narromine Shire Council ("Council") is committed to the sustainable supply and management of safe, high quality drinking water in the community. This policy provides a basis for the operation of Council's water supply involving catchments, storages, water treatment facilities and the distribution system.

2. POLICY STATEMENT

Council is responsible for providing a safe, reliable and cost effective drinking water supply, which is customer focused, enhances the environment and caters for the sustainable growth of the Shire¹. There is a commitment to consistently meeting or exceeding the 2011 Australian Drinking Water Guidelines (ADWG), consumer and other regulatory requirements. Council will implement and maintain a drinking water quality management system consistent with the ADWG to effectively manage the risks associated with public and environmental health.

This policy provides a basis for developing more detailed guiding principles and implementation strategies. As such it addresses broad issues and requirements, such as:

- Commitment to responsible use of water, and the application of a risk based management approach;
- Recognition and compliance with relevant regulations and other requirements;
- Communication, engagement and partnership arrangements with agencies with relevant expertise, employees, contractors, stakeholders and with water users;
- Council's intention to adopt best-practice management and a multiple-barrier approach;
- Continuous improvement in managing the treatment and use of drinking water; and
- Considering the opinions and requirements of all partnership agencies, employees, other stakeholders and the wider community.

Council will ensure that all staff involved in water supply will understand, implement, maintain and continuously improve the water management system.

Staff membership and participation in professional associations dealing with management and use of drinking water is encouraged.

3. POLICY PROVISIONS

Council supports and promotes the responsible and sustainable use of water and the application of a management approach that consistently meets the Australian Drinking Water Quality Guidelines as well as regulatory requirements.

¹ Narromine Shire Council Water Asset Management Plan (AMP 1) – Levels of Service Drinking Water Quality Policy – Adopted [insert date] Resolution No [insert]

To achieve this Council will:

- Ensure that protection of public and environmental health is recognised as being of paramount importance;
- Maintain communication and partnerships with all relevant agencies involved in the management of water resources;
- Engage appropriate scientific expertise in developing and operating the water schemes;
- Meet the cost of providing water by applying appropriate cost recovery practices;
- Recognise the importance of community participation in decision-making processes and the need to ensure that community expectations are met within a sustainable framework;
- Manage water quality at all points along the delivery chain from source to the water user;
- Use a risk-based approach in which potential threats to water quality are identified and controlled;
- Integrate the needs and expectations of our water users, communities and other stakeholders, regulators and employees into planning processes;
- Establish regular monitoring of control measures and establish effective reporting mechanisms to provide relevant and timely information to Council, Regulators and key stakeholders, and promote confidence in the water supply and its management;
- Develop and maintain appropriate contingency planning and incident-response capability to efficiently manage Council's response to drinking water quality incidents.
- Participate in and support appropriate research and development activities to ensure continuous improvement and continued understanding of water issues and performance;
- Participate in setting industry regulations and guidelines, and other standards relevant to public health and the water cycle.
- Ensure a continued understanding of drinking water quality issues and efficient operation of water supply schemes through employee training and education; and
- Continually improve our practices by assessing performance against corporate commitments and stakeholder expectations.

4. DEFINITIONS

Drinking Water – Water, provided by Council, intended primarily for human consumption.

5. LEGISLATIVE OBLIGATIONS AND/OR RELEVANT STANDARDS

This policy has been developed to be consistent with the following legislative requirements:

- Water Management Act, 2000
- Local Government Act, 1993
- Australian Drinking Water Guidelines
- National Water Quality Management Strategy, 2018
- NSW Public Health Act 2010 No 127
- NSW Public Health Regulation 2012

6. PERFORMANCE INDICATORS

The effectiveness of this policy will be measured by:

- Compliance with the Drinking Water Quality Management Plan.
- Customer feedback.
- Drinking water usage
- Audits by Health NSW Drinking Water Unit

7. REVIEW

The Drinking Water Quality Policy and associated management plans will be reviewed every four (4) years, or as required.

DRAFT

Water Exemption Table

<u>Location</u>	<u>Frequency (per week) and application</u>	<u>Schedule and Duration</u>
Town Entrance Gardens	Twice by means of hand watering	Mondays: Between 7:00am and 9:00am Thursdays: Between 7:00am and 9:00am
Main Street Plantings	Twice by means of hand watering	Mondays: Between 7:00am and 9:00am Thursdays: Between 7:00am and 9:00am
Tom Perry Park	Once by scheduled irrigation	Tuesdays: Between 4:00am and 6:00am
Narrormine Aquatic Centre	Twice by scheduled irrigation	Mondays: Between 8:00pm and 10:00pm Thursdays: Between 8:00pm and 10:00pm
Payten Oval (inner only)	Twice by scheduled irrigation	Mondays: Between 1:30am and 6:00am Thursdays: Between 1:30am and 6:00am
Dundas Oval (inner only)	Twice by scheduled irrigation	Tuesdays: Between 4:00am and 7:00am Fridays: Between 4:00am and 7:00am
Dundas Oval (cricket pitch)	Twice by means of hand watering	Between 3:00pm and 6:00pm
Cale Over (inner only)	Once by scheduled irrigation	Mondays: Between 10:00pm and 2:30am
Cemetery	Twice by scheduled irrigation	Mondays: Between 4:00am and 6:00am Fridays: Between 4:00am and 6:00am