1. WORKS REPORT

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

monitored and well managed

Executive Summary

This report provides information regarding works undertaken during the given period for operational and capital works.

Report

The Works Report (*Attachment No. 1*) for the period 4 November to 1 December 2025 is presented to Council for information.

Financial Implications

Council has provision for these services in its 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 (Attachment No. 1).

RECOMMENDATION

That the information be noted.

2. NARROMINE AERODROME STRATEGIC AND MASTER PLAN UPDATE

AuthorDirector Infrastructure and Engineering ServicesResponsible OfficerDirector Infrastructure and Engineering Services

Link to Strategic Plans CSP – 4.3.3 Ensure Council's assets are monitored and well

managed

Executive Summary

The Narromine Aerodrome Strategic and Master Plan has undergone a comprehensive review and is now recommended for public exhibition. Placing the updated Plan on public exhibition will allow community and stakeholder feedback to be considered prior to seeking Council's formal endorsement.

Report

The Narromine Aerodrome Strategic and Master Plan provides the long-term framework for the development and management of the Aerodrome over the next 25 years. The Plan is reviewed and updated every five years to ensure it remains relevant to the needs of the community, industry, and Council. The current revision builds upon previous versions and incorporates contemporary needs, stakeholder input, and updated industry standards.

The updated Master Plan reflects the history, significance, and future potential of the Narromine Aerodrome, and provides clear strategic direction to guide decision-making, planning policies, and future investment.

To ensure the plan incorporates feedback from the community, including user groups and nearby residents, it is proposed that the plan is placed on public exhibition for a period of at least 40 days. The exhibition period is scheduled to commence in early December and conclude in late January, providing ample opportunity for community members and stakeholders to review the document and provide feedback.

The main changes to the Narromine Aerodrome Master Plan include:

- Updated references and supporting materials to ensure accuracy and relevance
- Inclusion of the newly established industrial precinct
- Updates reflecting the progress and current status of the Skypark residential development
- Revisions to align with the latest regulatory requirements
- Enhancement and clarification of the action plan
- Incorporation of new aerial imagery to provide an up-to-date visual overview

Financial Implications

Projects and strategies outlined within the plan are delivered as funding becomes available.

2. NARROMINE AERODROME STRATEGIC AND MASTER PLAN UPDATE (Cont'd)

Legal and Regulatory Compliance

Civil Aviation Safety Regulations 1998 (CASR), Part 139 Environmental Planning & Assessment Act 1979 (NSW) Narromine Local Environmental Plan 2011 Narromine Development Control Plan 2015 Local Government Act 1993 (NSW) Roads Act 1993 (NSW)

Underground Petroleum Storage System Regulation 2014 (NSW) Heritage Act 1977 (NSW)

Risk Management Issues

Nil

Internal/External Consultation

This document will be placed on public exhibition.

Attachments

- Draft - Aerodrome Master Plan (Attachment No. 2)

RECOMMENDATION

It is recommended that Council place the Draft Aerodrome Master Plan on Public exhibition from December to 30 January 2026.

3. ELECTRIC VEHICLE CHARGING POINTS IN NARROMINE

Author

Responsible Officer

Link to Strategic Plans

Director Infrastructure and Engineering Services

Director Infrastructure and Engineering Services

CSP – 4.3.3 Ensure Council's assets are monitored and well

managed

Executive Summary

Provide background and seek endorsement on the proposed electric vehicle charging points in Narromine, funded and delivered by an independent supplier under the NSW Government's EV Destination Charging Grant.

Report

<u>Background</u>

In February 2025, Council was approached by a third party requesting a non-binding letter of support to accompany their application to the NSW Government's EV Destination Charging Grant. The letter confirmed Council's willingness to explore potential locations for EV charging infrastructure but did not commit Council to any financial, operational or long-term obligations.

3. ELECTRIC VEHICLE CHARGING POINTS IN NARROMINE (Cont'd)

As part of this preliminary engagement, Council identified two potential sites for the placement of EV chargers: the light vehicle parking area in Burraway Street (opposite the Liberty Fuel Station) and the parking area adjacent to Dundas Park on Meryula Street. These sites were proposed subject to future assessment regarding power availability and technical suitability.



Figure 1: Proposed EV Charging Location - Burraway Street



Figure 2: Proposed EV Charging Location - Meryula Street

3. ELECTRIC VEHICLE CHARGING POINTS IN NARROMINE (Cont'd)

The grant application was submitted by a third party in April 2025. In November 2025, Council was advised that the application was successful and that a funding agreement had been executed with the NSW Government. The third party has now formally committed to scoping, developing and delivering the project.

Project Details

The EV charging project will be delivered at no cost to Council. The grant will fund 100% of all project components, including detailed site scoping, power supply investigations, any required infrastructure upgrades, installation works and all associated materials.

The proposal includes the installation of four EV charging points in total; two chargers at each of the previously identified locations on Burraway Street and Meryula Street. Scoping activities are expected to commence in early 2026, with construction anticipated to occur within a 12–18 month period following site approvals and technical assessments.

As the charging stations are planned to be installed within the road reserve, at this stage Council understands that a Development Application (DA) is not required. Council will enter into an agreement with the third-party supplier, however, this is unlikely to result in financial gain for Council. All operational matters, including ongoing maintenance, insurance coverage (public liability and asset protection), and repairs, will be managed and funded by a third party for the duration of the agreement. The charging units will include electronic payment options, allowing users to pay directly at the point of use via EFT.

Benefits to Narromine

The installation of EV charging points is expected to generate a number of positive outcomes for the Narromine community.

Firstly, the infrastructure will support tourism growth by encouraging EV drivers to stop in Narromine during travel. As the adoption of electric vehicles continues to increase statewide, the availability of reliable and accessible charging locations will become a key factor in route planning for visitors.

Secondly, increased stopover traffic is anticipated to deliver economic benefits to local businesses, with visitors likely to use retail, dining and service offerings while charging their vehicles. This aligns with Council's broader objectives for economic stimulation and town centre activation.

The introduction of EV charging infrastructure also positions Narromine as a forward-thinking, environmentally conscious destination. The project represents an investment in modern transport technology and demonstrates Council's support for initiatives that promote sustainability and reduce emissions.

The EV charging project represents an opportunity for Narromine to strengthen its tourism offering, support local economic activity and enhance its reputation as a progressive regional community. As the project is fully funded by the NSW Government and delivered at no cost or risk to Council, endorsement is recommended.

3. ELECTRIC VEHICLE CHARGING POINTS IN NARROMINE (Cont'd)

Financial Implications

There are no financial implications for Council associated with this project. Capital costs, operational costs, insurance, maintenance and repairs will be fully funded and managed by Rise Energy.

The project is expected to generate positive economic benefits for the broader community through increased visitation and local spending.

Legal and Regulatory Compliance

Local Government Act 1993 Local Government (General) Regulation 2021 Roads Act 1993 Work Health and Safety Act 2011 Relevant Australian Standards Environmental Planning and Assessment Act 1979 (if applicable)

Risk Management Issues

Risks associated with the project are minimal and relate primarily to site suitability and technical feasibility. These matters will be assessed during the detailed scoping phase, which is fully funded through the grant. As Council will not own, operate or maintain the infrastructure, all financial and operational risks remain with Rise Energy.

Should the proposed sites ultimately be deemed unsuitable following scoping, Council may consider alternative locations, or the project may not proceed.

Internal/External Consultation

Nil

<u>Attachments</u>

Nil

RECOMMENDATION

That Council permit the installation of electric vehicle (EV) chargers at the two proposed locations, in accordance with the details outlined in this report.

4. SALEYARDS MASTER PLAN - ENDORSEMENT

AuthorDirector Infrastructure and Engineering ServicesResponsible OfficerDirector Infrastructure and Engineering Services

Link to Strategic Plans CSP – 4.3.3 Ensure Council's assets are monitored and well

managed

Executive Summary

This report provides an update on the Narromine Saleyards Master Plan.

Report

In August 2025 Council resolved to:

NARROMINE SALEYARDS – FUTURE PLANNING

RESOLVED Crs Lambert/Bohm that Council;

- Remove the unsafe large ramp at the northern end of the amenities block;
- Endorse the Narromine Saleyards Master Plan for 28 days public consultation;
- Continue to pursue grant funding opportunities to facilitate the broader redevelopment of the Narromine Saleyards site.

2025/453

The Draft Master Plan was put on public exhibition and Council received five (5) submissions. The content of the submissions is summarised in the table below.

#	Main Comments
1	Supports the proposal. Believe it will be beneficial for the school Would like to see further safety considerations for Terangion Street, particularly where the future crossing for school students will be located.
2	Is not in favour of the proposal Is not in favour of the area becoming a truck stop Would like to see the history of the saleyards celebrated Would like to see the area become a park/large monument and preserving the history
3	Is not in favour of the proposal Noted that the current parking area is often full of permanently parked trailers The Master Plan does not include any shops or attractions for truck drivers to stop The car park for the school is showing favouritism to one school Would like to see the history of the saleyards celebrated

4	Is not in favour of the proposal Would like to utilise the existing amenity block for other uses (e.g. driver reviver, mobile vet) Would like to have light vehicle and caravan parking available near the amenities Would like to see the history of the saleyards celebrated
5	Is not in favour of the proposal – does not support a truck stop in this location Would like to utilise the existing amenity block for other uses (e.g. driver reviver, mobile vet) Would like to have light vehicle and caravan parking available near the amenities Would like to see the area become a park/large monument and preserving the history Would like to keep at least one set of yards and a ramp

Response

Council has reviewed the submissions received during the public exhibition period and provides the following responses to the key issues raised.

1. Truck Parking and Traffic Management

Several submissions expressed concern about the area becoming a truck stop. Council notes that the site is already used for truck parking, and the proposed plan seeks to formalise the area, improving access, delineation, and safety for all road users, including pedestrians, truck drivers, light vehicles, tourists, residents, and parents/students.

2. Park, Monument, and Heritage Recognition

Some respondents requested that the saleyards' history be celebrated and the area developed as a park. Council has incorporated a dedicated park area in the eastern portion of the site. This will include shaded seating, tables, improved drainage, and a heritage element such as a monument or information wall to commemorate the history of the saleyards.

3. Retention of Holding Yards and Ramp

A number of submissions requested that at least one set of yards and a ramp be retained. Council has reviewed this, noting that the Narromine Animal Shelter provides a more suitable location for animal loading and emergency management. Consequently, the existing holding yards and ramp are not required under the updated plan.

4. Amenities Block and Community Facilities

Several submissions suggested repurposing the existing amenities block for community uses such as a driver reviver or mobile vet. The Master Plan proposes to upgrade the amenities block and formalise light vehicle (including caravan) parking nearby to promote safe and convenient use of the facilities by the community.

4. SALEYARDS MASTER PLAN – ENDORSEMENT (Cont'd)

5. School Safety and Terangion Street Crossing

Submissions highlighted concerns regarding student safety along Terangion Street. Council will work directly with the School to review and implement additional safety measures, particularly relating to the future pedestrian crossing for students.

As a result of the feedback, minor updates have been made to the Master Plan to reflect community input while maintaining the operational and safety objectives of the site.

Grant Funding

Council has been successful in receiving grant funding to undertake a portion of the proposed works. The funded works include:

- Formalised heavy vehicle parking area, including entrance upgrades, lighting, and line-markina
- Railway line modifications to allow all heavy vehicles to cross at Manildra Street, removing heavy vehicle traffic from the town centre
- Formalised light vehicle parking area
- Upgrades to amenities, including toilets and associated facilities
- Footpath construction along Manildra Street
- Two pedestrian crossings: one on Manildra Street and one on the Bypass Road
- Landscaping and streetscape beautification

Council's application for a \$2.98 million grant was successful, and Council has been offered this funding, subject to acceptance and a required co-contribution. Of the total, \$2,384,000 will be provided through the grant, with the remaining 20% (\$596,000) to be funded by Council. The project is planned for delivery across three financial years (2025/26, 2026/27, and 2027/28), with completion targeted for November 2027.

Project Phase	Timeframe	Estimated Cost (total)	Council Contribution (20%)
Design	Jan 2026 – October 2026	\$130,000	\$26,000
Construction	November 2026 – June 2027	\$2,216,000	\$443,200
Sealing and finalisation (including lighting and line marking)	July 2027 – November 2027	\$634,000	\$126,800

Financial Implications

Council will need to allocate funding across the financial years to deliver the project. Funding will be allocated as per the following table.

4. SALEYARDS MASTER PLAN – ENDORSEMENT (Cont'd)

Financial year	Council Contribution (20%)
2025 / 2026	\$26,000
2026 / 2027	\$443,200
2027 / 2028	\$126,800

It is proposed that this funding be drawn from Council's Roads to Recovery allocation, which totals approximately \$3.547M over the same period.

Legal and Regulatory Compliance

Local Government Act 1993 Protection of the Environment Operations Act 1997 Waste Avoidance and Resource Recovery Act 2001 Environmental Planning and Assessment Act 1979

Risk Management Issues

Reputational Risks: Community concerns regarding heritage, amenity, or the use of the site could affect Council's reputation. Community consultation and transparent communication will mitigate this risk.

Stakeholder Engagement

Public consultation has occurred on the Master Plan, as detailed within the report.

Attachments

- Saleyards Master Plan (Attachment No. 3)

RECOMMENDATION

That Council:

- 1. Endorse the updated Saleyards Master Plan;
- 2. That Council undertake an EOI process to remove the existing infrastructure as needed
- 3. Allocates the required co-contribution in the budget, with Council's portion to be funded from the Roads to Recovery program, as outlined below, to undertake the project works.

Financial year	Council Contribution (20%)
2025 / 2026	\$26,000
2026 / 2027	\$443,200
2027 / 2028	\$126,800

5. ALLOCATION OF SEWER FUNDS FOR PURCHASE OF NEW SEWER CAMERA

AuthorDirector Infrastructure and Engineering ServicesResponsible OfficerDirector Infrastructure and Engineering Services

Link to Strategic Plans CSP – 4.3.3 Ensure Council's assets are monitored and well

managed

Executive Summary

This report seeks Council's approval to allocate \$100,000 from the Sewer Fund reserves for the purchase of a new sewer camera to replace the existing equipment that has recently become inoperable.

Report

A sewer camera is critical to Council's operations as it enables the Sewer Team to inspect the underground pipe network and identify faults, blockages, or defects. Without a functioning camera, the team's ability to manage sewer infrastructure and respond to service issues is significantly compromised.

The existing sewer camera was scheduled for replacement in the 2026/27 financial year as part of the Plant Replacement Program. However, the camera has recently broken and is no longer operational.

Council staff have contacted several suppliers and arranged an onsite demonstration of the proposed equipment to ensure suitability for operational requirements. Following this process, three quotes were obtained, with the estimated cost of a new camera, including freight, being approximately \$90,000.

In addition to the purchase of the unit, funding is required for training of operators to ensure the new equipment is used safely and effectively.



Figure 3: A sewer camera is a critical piece of equipment to enable inspection of the underground pipe network

5. ALLOCATION OF SEWER FUNDS FOR PURCHASE OF NEW SEWER CAMERA (Cont'd)

Financial Implications

It is recommended that \$100,000 be allocated from Sewer Fund reserves to cover the cost of purchasing the new sewer camera and associated training. This allocation ensures the Sewer Team can continue to maintain and inspect the underground network efficiently and safely.

The Sewer Fund is in a strong financial position, and this allocation can be accommodated without impacting its ongoing operations or service delivery.

Legal and Regulatory Compliance

Local Government Act 1993 Work Health and Safety Act 2011 (NSW) Protection of the Environment Operations Act 1997 (NSW) Council Procurement Policy

Risk Management Issues

Nil

Internal/External Consultation

Nil

Attachments

Nil

RECOMMENDATION

That Council allocate \$100,000 from Sewer Fund reserves to the 2025/26 budget for the purchase of a new sewer camera and operator training.

6. POWERING NARROMINE: CLEAN ENERGY UPGRADES - FUNDING ALLOCATION

AuthorDirector Infrastructure and Engineering ServicesResponsible OfficerDirector Infrastructure and Engineering Services

Link to Strategic Plans CSP – 4.3.3 Ensure Council's assets are monitored and well

managed

Executive Summary

Council has been successful in applying for grant funding for Clean Energy Upgrades. This report provides details of the project and required co-contributions to accept the funding deed.

Report

In line with the Federal Government's Net Zero agenda, Council continues to pursue initiatives that reduce operational emissions and long-term energy costs. Earlier this year, Council submitted a federal grant application for the *Powering Narromine* project, which proposes installing solar infrastructure across key facilities and introducing electric-vehicle charging capability at the Narromine Chambers.

The project involves rooftop solar photovoltaic (PV) systems at four Council-owned or operated sites:

- Council Chambers
- Narromine Pool
- Narromine Sport & Fitness Centre, and
- Narromine Works Depot

Additionally, the project will install an EV charging station at the Main Council Office to support future fleet electrification.

Together, these upgrades will add more than 140 kW of renewable energy capacity, reducing reliance on grid electricity, cutting annual energy expenditure by an estimated \$25,000, and lowering emissions by approximately 36 tonnes of CO_2^{-e} each year.

These outcomes strengthen Council's commitment to sustainable operations, deliver measurable financial and environmental benefits, and contribute meaningfully to broader Net Zero objectives.

Council has recently been advised that our *Powering Narromine* grant application was successful. The federal funding will provide fifty per-cent of the total project cost, enabling Council to undertake the proposed installations across our facilities.

6. POWERING NARROMINE: CLEAN ENERGY UPGRADES - FUNDING ALLOCATION (Cont'd)

To accept the grant, Council must commit to the matching co-contribution across multiple financial years, specifically:

- \$48,938 in 2025/26
- \$97,874 in 2026/27
- \$16,313 in 2027/28

These allocations remain mostly consistent with Council's Long Term Financial Plan, which includes approximately \$40,000 per year for energy-efficiency improvements. (Note that some expenditure will need to be moved from future years.)

To accept the grant, Council will need to allocate funding for the next three financial years. For works planned for 2025/26 it is suggested that budget is allocated from existing projects that are projected to be delivered under budget:

- **\$25,000** from the Electrical Upgrade project (current budget \$100,000; current spend \$50,000, with remaining works able to be deferred), and
- **\$25,000** from the Trangie Argonauts Park Upgrade (current budget \$150,000; projected spend approximately \$100,000 due to lower-than-expected costs).

This approach enables Council to accept the grant and deliver the project without adversely impacting service delivery, planned programs, or overall financial sustainability, while continuing to advance Council's long-term sustainability and emissions-reduction goals.

Financial Implications

Council's total contribution to the project is \$163,125, allocated across three financial years. The project is expected to reduce energy costs by approximately \$25,000 per year, and with solar infrastructure typically having a 20-year asset life, this equates to an estimated \$500,000 in total savings over the life of the panels. After accounting for Council's investment, the project delivers a net saving of around \$300,000, representing a strong long-term financial return.

Legal and Regulatory Compliance

Local Government Act 1993 Protection of the Environment Operations Act 1997 Waste Avoidance and Resource Recovery Act 2001

Risk Management Issues

Project management and appropriate contractor and material selection.

Internal/External Consultation

Nil

6. POWERING NARROMINE: CLEAN ENERGY UPGRADES - FUNDING ALLOCATION (Cont'd)

Attachments

Nil

RECOMMENDATION

That Council:

- 1. Allocate Council's co-contribution over three financial years as follows:
 - o \$48,938 in 2025/26
 - o \$97,874 in 2026/27
 - \$16,313 in 2027/28
- 2. For the 2025/26 financial year, fund the co-contribution using savings identified from the existing projects: Electrical Upgrades and Trangie Argonauts Park Upgrade.

7. INTEGRATED WATER CYCLE MANAGEMENT (IWCM) STRATEGY

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

Executive Summary

This report seeks Council's endorsement to place the Integrated Water Cycle Management (IWCM) Strategy on public exhibition, providing the community with the opportunity to review and provide feedback on the proposed 30-year plan for the management, renewal, and enhancement of water and sewer infrastructure across Narromine Shire.

Report

Background

Council has undertaken the development of an IWCM Strategy in accordance with NSW Department of Planning and Environment requirements. The strategy is informed by technical assessments, financial modelling, community and stakeholder input, and review of Council's existing Issues Paper. Key challenges and constraints identified in that Issues Paper, most notably the under-sized Narromine Water Treatment Plant, have guided the strategic direction and the prioritisation of capital works within the long-term planning framework.

7. INTEGRATED WATER CYCLE MANAGEMENT (IWCM) STRATEGY (Cont'd)

The IWCM process commenced in 2021 and was undertaken by an external consultant. Due to a range of unforeseen delays, including COVID-19 impacts, evolving regulatory requirements, and consultant availability, the project has taken longer than anticipated to finalise. Consequently, some components of the document reference historical data. Given the need to complete the IWCM Strategy to secure ongoing funding and fulfil the existing funding agreement, it is recommended that Council endorse and accept the current report. Minor updates, including financial adjustments, can be incorporated at the completion of the Water Treatment Plant concept design, when more accurate construction cost estimates become available.

Report Considerations

The IWCM undertook a detailed assessment of the condition, capacity, and performance of the current water supply systems in Narromine, Tomingley, and Trangie. The key findings include:

Narromine Water Treatment Plant (WTP) is under-sized for projected demand growth and fails to meet future peak day capacities

Water security relying on groundwater sources was evaluated and is generally adequate in the short to medium term; however, long-term security will require active management, monitoring, and potential supplementary sources.

• Distribution networks across the three towns are functioning but exhibit pockets of aging pipework requiring renewal.

Sewer mains in Narromine and Trangie require targeted replacement and relining due to age-related deterioration.

Sewer Treatment Plants (STPs) in Narromine and Trangie require upgrades to improve treatment performance, address compliance obligations, and accommodate future population growth.

To address the issues identified the report proposes the following major projects over the 30-year life of the plan:

New water treatment plant (Narromine)

Raw water pipeline, river to water treatment plant (Narromine)

Water network expansions (Narromine) – to accommodate projected population increase

Sewer main replacements and relining (Narromine and Trangie)

Sewer treatment plant upgrades (Narromine and Trangie)

Sewer network expansions (Narromine and Trangie)

7. INTEGRATED WATER CYCLE MANAGEMENT (IWCM) STRATEGY (Cont'd)

The IWCM undertook comprehensive financial modelling to assess affordability, funding sources, debt requirements, and pricing implications associated with the proposed capital projects. The review found that the current water and sewer typical residential bill amount was sufficient to allow for sustainability within both funds, assuming an annual bill increase equivalent to CPI.

Developer Charges

Developer charges (also known as developer contributions or Section 64 contributions) are fees that Council imposes on new developments to ensure that essential infrastructure and services can meet the increased demand created by growth. When new houses, subdivisions, or commercial developments are built, they place additional pressure on infrastructure such as water supply, sewer networks, stormwater systems, roads, open space, and community facilities. Developer charges ensure that the cost of expanding or upgrading this infrastructure is fairly shared by those who create the need for it, rather than being funded entirely by existing ratepayers. These charges help Council maintain service levels, plan for long-term growth, and deliver infrastructure in a financially sustainable way.

The IWCM reviewed Council's DCs and recommends the following charges (from July 2026):

Water services (Narromine and Trangie): \$5,000 per ET Sewer services (Narromine and Trangie): \$2,000 per ET

These charges would replace the current charges of \$3,000 for water and \$3,000 for sewer per ET.

Financial Implications

The Strategy provides a sound basis for long-term budgeting and informs the setting of appropriate fees and charges for both the water and sewer funds. It supports sustainable financial planning by aligning projected expenditure with revenue requirements over the life of the assets.

Legal and Regulatory Compliance

Local Government Act 1993 (NSW)
Water Management Act 2000 (NSW)
Water Management (General) Regulation 2025
Water Management (Water Supply Authorities) Regulation 2025
Public Health Act 2010

Protection of the Environment Operations Act 1997 Environmental Planning and Assessment Act 1979

Work Health and Safety Act 2011

7. INTEGRATED WATER CYCLE MANAGEMENT (IWCM) STRATEGY (Cont'd)

Risk Management Issues

Nil

Internal/External Consultation

It is proposed that the IWCM is placed on public exhibition from mid-December until 30 January 2026.

Attachments

- Narromine Council Integrated Water Cycle Management Strategy (Attachment No. 4)

RECOMMENDATION

That Council place the Integrated Water Cycle Management (IWCM) Strategy on public exhibition with submissions invited until 30 January 2026.

Melanie Slimming

Director Infrastructure and Engineering Services

REPORTS TO COUNCIL – INFRASTRUCTURE AND ENGINEERING SERVICES ATTACHMENT NO. 1 – WORKS REPORT

WORKS REPORT

WATER AND SEWER

During late November, extended periods of hot weather placed significant pressure on the Narromine Water Treatment Plant (WTP). Elevated temperatures resulted in a sharp increase in community water demand. Over several consecutive days, the WTP was unable to meet demand in real time. Fortunately, the town's storage reservoirs and booster pump systems were able to supplement supply and maintain service continuity for customers.

This event again highlights the increasing vulnerability of the existing WTP during peak periods and reinforces the need for investment in a larger water treatment plant to support current and future township requirements.

Throughout November, the Water and Sewer team responded to a high number of service repairs and leak incidents across the network. Staff undertook routine and reactive maintenance to ensure network reliability.

Council has released an Expression of Interest (EOI) for the desludging of the Narromine Sewer Treatment Plant (STP). The STP has not undergone desludging since its original construction. Desludging involves the removal of accumulated solids from treatment ponds to restore hydraulic capacity, improve treatment performance, and extend the operational life of the asset. It is a significant and necessary component of long-term STP maintenance. Works are expected to be undertaken in the next financial year, following procurement and contractor engagement. This will constitute a major sewage infrastructure project for Council.

ROADS REPORT

Rehabilitation works on Tullamore Road continued during the review period, with the final kilometre being re-worked and the second-last kilometre trimmed in preparation for sealing in early December.

Works at the Tomingley–Gainsborough intersection remain ongoing, with speed limits currently reduced to 60 km/h. The south-east lane is expected to be completed in early December and works will be paused until the stabiliser contractor becomes available in the new year.

Shoulder grading progressed along Old Warren Road and is expected to be completed in early December. Upcoming work will include inspections and maintenance on Weemabah Road, followed by activities in the Trangie area leading into the Christmas period.

Council staff have started work on the "Towards Zero" funding on Tullamore Road. The project includes a realignment of Tullamore Road. The project is being completed by Council's new grader and machine control is being utilised to improve efficiency and ensure high quality of the work.

REPORTS TO COUNCIL – INFRASTRUCTURE AND ENGINEERING SERVICES ATTACHMENT NO. 1 – WORKS REPORT

ROADS REPORT (Cont'd)

The storm late in November resulted in a significant amount of clean-up works across some of the rural roads including: Farrendale, Boggy Plains, Narwonah, Heywoods Lane, and Tullamore Road. Urban construction works continued, including verge preparation on Murgah Street in advance of sealing, along with storm-damage clean-up activities in town.



Figure 1: Construction works on The McGrane Way

PARKS AND GARDENS

Christmas is fast approaching, and the Parks and Gardens team are leading the way with festive preparations. The Narromine and Tomingley Christmas trees were installed during November, with the Trangie tree scheduled for early December.





Figure 2: Christmas decorations are up! Left: Narromine's Christmas Tree Right: Tomingley's decorations

REPORTS TO COUNCIL – INFRASTRUCTURE AND ENGINEERING SERVICES ATTACHMENT NO. 1 – WORKS REPORT

PARKS AND GARDENS (Cont'd)

Alongside the festive work, the team has been busy with end-of-year maintenance across the Shire. Recent activities included gravel patching, hazard-reduction mowing at the showground, and gutter clearing and vegetation removal at Timbrebongie to support stormwater flow. Shrub maintenance on the first-stage plantings was completed, and footpaths and gutters in both Narromine and Trangie received manual cleaning. Hand-watering of street trees continued across all towns to support plant health during the current dry conditions.



Figure 3: Thorough cleaning of the drain at Timbrebongie House occurred during November

The recent hot and windy weather has placed strain on garden beds, prompting extensive sprinkler maintenance. Adjustments, replacements, and run-time changes were carried out across Dundas Park, the Chambers and CSO gardens, the Medical Centre, and Tom Perry Park, including the replacement of several non-rotating sprinklers and a faulty solenoid.

In Trangie, two customer requests were completed to lift tree canopies for improved road-user visibility and safety. Main street shrubs were trimmed, street trees were handwatered, and further irrigation adjustments were completed. In Tomingley, weeds in garden beds were sprayed and the roadside stop areas were cleaned.

Following the recent storm in Narromine, the team delivered an impressive and highly dedicated clean-up response. Their efforts received strong positive feedback from the community and ensured public spaces were made safe and tidy again in a very short time.

REPORTS TO COUNCIL – INFRASTRUCTURE AND ENGINEERING SERVICES ATTACHMENT NO. 1 – WORKS REPORT

PARKS AND GARDENS (Cont'd)



Figure 4: Parks and gardens staff worked diligently to clean up after the storm

FOGO UPDATE

In November, Council offered free FOGO material to all residents across the Shire. Approximately 100 tonnes were delivered to Narromine and distributed to both Trangie and Tomingley. The original stockpile at the Narromine landfill has now been fully collected, Tomingley's allocation has also been completely taken up, and only an estimated 8–10 tonnes remain at the Trangie collection point. Overall, the majority of the material has already been picked up by residents, indicating a strong community response to the initiative.

Council plans to continue this initiative for one month every year to promote the importance of FOGO and to help residents understand how their FOGO material is utilised, supporting both education and full-cycle awareness.



Revision History

Date	Version	Auth.
November 2015	1.0	Manager Planning
August 2019	2.0	Director Community and Economic Development
November 2025	3.0	Manager of Waste and Community Facilities

Contents

Foreword	5
Acknowledgement of Country	5
Abbreviations / Glossary	6
Executive Summary	7
Purpose of the Plan	8
Alignment with Other Plans	8
Background	9
Consultation	9
Regional Characteristics	10
Current Position	11
Economic Environment	12
A Brief History of the Narromine Aerodrome	13
Current Uses	15
Aviation Activity	17
The Built Environment	20
Traffic and Transport	21
Utilities and Services	21
Recreational Opportunities	22
Connections with the Community	22
Narromine Skypark Residential Estate	23
Aerodrome Industrial Park	24
Adjoining Land Uses	25
Constraints Identification & Analysis	26
Existing Infrastructure	28
Zone SP2 Infrastructure	31
Asset Management and Regulatory Compliance	32
Narromine Section 7.12 Contributions Plan	32

Master Plan	33
Strategic Plan	36
Actions	37
References	44

Foreword

The Narromine Aerodrome Strategic and Master Plan sets out the long-term vision for the development and management of the Aerodrome over the next 25 years. As a living document, it will be reviewed every five years and updated as required to ensure it remains relevant to the needs of the community, industry and Council. This revision builds upon the previous Plan prepared in 2019, which provided the foundation for the current direction.

A Master Plan identifies appropriate land uses for an area, taking into account planning, environmental and operational considerations. A Strategic Plan complements this by presenting a more detailed vision, outlining required infrastructure works and establishing development stages. Outcomes are framed within short, medium and long-term time horizons to ensure practical, phased delivery.

This Plan reflects the history, significance and future potential of the Narromine Aerodrome. It provides clear strategic direction to guide decision-making, inform Council's Integrated Planning and Reporting framework and support development controls, planning policies and future investment. Together, these elements will ensure the Aerodrome continues to thrive as an important community and regional asset.

Acknowledgement of Country

We acknowledge the traditional custodians of the land and pay respect to the elders, past, present and future, for they hold the memories, traditions and culture of the land.

Abbreviations / Glossary

Abbreviation	Definition		
AAA	Australian Airports Association		
ANEF	Australian Noise Exposure Forecast		
ARFL	Aircraft Reference Field Length		
ARO	Aerodrome Reporting Officer		
CAN	Aircraft Classification Number		
CASA	Civil Aviation Safety Authority		
CASR	Civil Aviation Safety Regulations		
ESRA	En-route Supplement Australia (Aeronautical Information Publication)		
GA	General Aviation		
GNSS	Global Satellite Navigation System		
LA	Light Aircraft		
LGA	Local Government Area		
MOS	Manual of Standards		
NASF	National Airports Safeguarding Framework		
NOTAM	Notice to Airmen		
NSW	New South Wales		
OLS	Obstacle Limitation Surface		
PAN-OPS	Procedures for Air Navigational Services – Aircraft Operations		
PCN	Pavement Classification Number		
RDA	Regional Development Australia		
RFDS	Royal Flying Doctors Service		
RPT	Regular Public Transport		
WDI	WDI Wind Direction Indicator		

Executive Summary

The Narromine Aerodrome Strategic and Master Plan establishes the long-term framework for the development and management of the Aerodrome over the next 25 years. This living document will be reviewed every five years and amended as required to ensure it remains current and aligned with Council and community priorities. The previous revision, prepared in 2019, forms the foundation for this updated Plan.

A Master Plan identifies appropriate land uses for a defined area, considering planning, environmental and operational constraints. A Strategic Plan builds on this foundation, providing a more detailed and illustrative vision that identifies infrastructure requirements and stages of development. Together, these Plans deliver outcomes structured across short-, medium- and long-term timeframes to guide effective implementation.

This updated Plan provides a strengthened strategic direction for the Narromine Aerodrome, reflecting its history, current operations and future potential. The data and recommendations contained within will inform Council's Integrated Planning and Reporting framework, guide development controls and planning policies, and support investment decisions to ensure the Aerodrome continues to be a valuable regional and community asset.

Council's Community Strategic Plan (2025–2035) outlines a clear goal to "encourage and support growth and expansion of the existing aviation industry, as well as strengthen the region's capacity to attract and establish new aviation businesses and national or international events." This document provides the framework for how Council will work towards achieving this objective.

Purpose of the Plan

The Narromine Aerodrome Strategic and Master Plan provides long-term direction for the development, management and operation of the Aerodrome. It establishes a clear framework to guide decision-making and investment, ensuring the Aerodrome remains viable and responsive to community and industry needs over the next 25 years.

The Plan specifically seeks to:

- 1. Identify Development Opportunities Investigate options for short-, medium- and long-term development of the Aerodrome.
- 2. Assess Planning Constraints Identify and evaluate planning, environmental and operational constraints that influence development.
- 3. Guide Future Development Provide recommendations on potential development areas, preferred development types and development control measures to ensure long-term viability and alignment with community needs.
- 4. Support Economic Growth Establish a link between Council's strategic direction and the local Economic Development Group to facilitate economic growth within the Narromine Local Government Area.
- 5. Determine Service Levels Assist Council in identifying the level of service and infrastructure required to support and expand the Aerodrome.

Alignment with Other Plans

This Plan forms the strategic framework for the future development and management of the Narromine Aerodrome. It also provides the basis for the Aerodrome's Asset Management Plan and directly supports the implementation of key objectives within Council's Community Strategic Plan, specifically Requirements 2.2.2 and 2.2.3.

By integrating with Council's broader planning documents and policies, this Plan ensures the Aerodrome's ongoing role as an important regional asset and economic driver for the community.

Background

Extensive consultation and strategic planning have shaped the evolution of the Narromine Aerodrome over several decades. Key documents developed in 1995 (reviewed in 2004) and 2009 informed the 2015 Strategic Plan, its 2019 revision, and the most recent review commencing in 2025.

Much of the strategy outlined in the original 1995 document has guided ongoing development and continues to underpin decision-making for the Aerodrome today. This Strategic and Master Plan builds on that foundation, incorporating contemporary needs, stakeholder input and updated industry standards.

Consultation

This plan will be placed on public exhibition for at least 40 days prior to submission for endorsement.

Previous versions of this plan were informed by a comprehensive consultation process. Previous studies engaged not only current Aerodrome users but also:

- Adjoining landowners
- Business owners (both within and outside Narromine)
- Council's Infrastructure and Engineering Department and Executive Leadership Team (ELT)
- The wider Narromine Shire community

Comments were actively sought during the drafting process for this revision, and feedback received from stakeholders will be incorporated into the final document.

Narromine Shire Council extends its appreciation to all individuals and organisations who contributed to the consultation process. Their input has been invaluable in shaping a Plan that reflects the needs, aspirations and priorities of the community.

Regional Characteristics

Narromine Shire occupies a strategically important location within the Central West of New South Wales, with strong transport links and a proud history of aviation. The Narromine Aerodrome itself is central to this identity, providing a facility that not only serves local and regional needs but also attracts national and international aviation interest. Its reputation as a premier flying destination has positioned Narromine as a hub for gliding, aerobatics, and general aviation activities, delivering significant economic and social benefits to the community.

Widely known as the "Gliding Capital of Australia," Narromine offers some of the most favourable conditions for gliding in the country — and indeed the world. Ideal weather patterns, abundant thermals and the absence of airspace restrictions create exceptional opportunities for recreational flying and competitive events. Pilots from across Australia and around the globe visit regularly to experience these conditions, undertake training, and participate in prestigious competitions including the National and State Gliding Championships. This steady influx of visitors supports local businesses and contributes to the Shire's tourism and hospitality sectors.

The Aerodrome has also established itself as a host for high-profile aviation events beyond gliding. Recent years have seen the facility successfully stage both the State and National Aerobatic Championships, showcasing the site's versatility and operational capacity. These events have strengthened Narromine's reputation as a centre of aviation excellence and demonstrated the Aerodrome's ability to meet the demanding requirements of competitive and public events alike.

In 2023, Narromine's standing on the global stage was further cemented when the Aerodrome hosted the World Gliding Championships, attracting elite competitors and international media attention. This milestone event placed Narromine firmly on the international aviation map and highlighted the Aerodrome's capacity to host large-scale, complex events. The legacy of the Championships continues to elevate Narromine's profile, driving ongoing interest from aviation enthusiasts, investors and event organisers.

The Aerodrome's regional significance also extends beyond tourism and sport. It provides vital infrastructure for emergency services, pilot training, general aviation operations and community access to aviation-related services. As a key regional asset, it plays an important role in stimulating local economic development, encouraging skill development and supporting a culture of innovation and excellence in aviation. By maintaining and enhancing the Aerodrome through strategic planning and investment, Narromine Shire can continue to leverage these regional characteristics to create new opportunities for growth and community benefit.

Current Position

Narromine Shire is located in the heart of New South Wales between Dubbo and Nynaan, covering an area of approximately 5,224 km² with a population of around 6,800 people. The Shire includes three key urban centres — Narromine (3,500), Trangie (1,000) and Tomingley (50) — alongside extensive rural areas. The Narromine Aerodrome sits at an elevation of approximately 225 metres above sea level on the north-western edge of Narromine township, with convenient access to regional road and rail networks.

The Aerodrome occupies approximately 322.3 hectares and is strategically positioned among a mix of agricultural, recreational and residential land uses. This setting supports a variety of aviation-related and community activities, while providing scope for future expansion and diversification.

Under the Narromine Local Environmental Plan (LEP) 2011, the Aerodrome is zoned SP2 Infrastructure – Aerodrome and SP1-Aviation (industrial area). The objectives of the SP2 Infrastructure zoning are to:

- Provide for infrastructure and related uses: and
- Prevent development that is not compatible with or may detract from the provision of infrastructure.

This zoning framework protects the operational integrity of the Aerodrome while enabling future infrastructure investment and compatible commercial opportunities. Together with the Aerodrome's unique regional characteristics, it underpins the facility's ongoing role as a significant aviation hub and regional economic driver.



Figure 1: Location of Narromine Aerodrome in relation to Narromine Township

Economic Environment

Strategic Objectives

Council's approach to managing the Narromine Aerodrome aligns with the Aerodrome Asset Management Plan (2025), which states that Council aims to "meet the required level of service in the most cost-effective manner for present and future users." The strategic objectives are:

- Provide aerodrome services to a standard that supports outcomes identified in the Council Community Strategic Plan.
- Ensure infrastructure is maintained at a safe and functional standard.
- Manage aerodrome assets to meet Council's Asset Management Policy and Strategic Asset Management Plan.

Revenue and Expenditure

The Aerodrome generates revenue through leases on Council-owned buildings, rates, and land sales from the Skypark development. Annual operating and maintenance costs are approximately \$400,000, excluding capital works and depreciation. Current funding supports maintenance, upgrades of tarmac, hangars and buildings, runway resealing and remarking, and installation of groundwater monitoring equipment at the fuel bowsers.

Asset Value

The Narromine Aerodrome was valued at approximately \$21.6 million as at June 2025, reflecting its importance as one of the Shire's key infrastructure assets. Ongoing investment ensures the Aerodrome continues to meet operational standards and remains a strategic asset for the region.

Economic Contribution

The Aerodrome supports local aviation businesses, recreational flying, aircraft storage, and significant annual events. It also houses the Tourist Information Centre, attracting visitors and supporting the local economy. Its operations contribute directly to employment, tourism, and business activity in the Shire.

Opportunities for Growth

The Aerodrome presents significant potential to expand the region's Gross Regional Product. Future growth may include expanded industrial and residential development, enhanced aviation services, and increased hosting of major events. By leveraging its infrastructure and strategic location, the Aerodrome can continue to drive economic development and reinforce Narromine's reputation as a centre of aviation excellence.

A Brief History of the Narromine Aerodrome

The Narromine Aerodrome boasts a rich and diverse history that has significantly contributed to Australia's aviation heritage.

- 1919 Inception as an Airstrip: Aviation activities commenced at Narromine in 1919, marking the beginning of its long-standing association with flight.
- 1929 Birth of Australia's First Regional Aero Club: In 1929, the Narromine Aero Club was established, becoming Australia's first regional aero club. This club played a pivotal role in promoting aviation in the region and fostering a community of aviation enthusiasts, narromineaviationmuseum.org.au
- 1930s Golden Age of Aviation: During the 1930s, Narromine became a hub for 'barnstorming' aviators, attracting famous pilots and hosting some of Australia's most successful air pageants of the era. These events put Narromine on the aviation map and showcased the region's enthusiasm for flight. narromineregion.com.au
- 1940–1944 World War II and RAAF Training: In July 1940, the Royal Australian Air Force (RAAF) established No. 5 Elementary Flying Training School at Narromine as part of the Empire Air Training Scheme. Over four years, the school graduated 2,850 pilots who received introductory flight instruction on Tiger Moth aircraft. Many of these pilots went on to serve in various capacities during the war. narromineaviationmuseum.org.au
- 1942 Runway Sealing: To accommodate military operations, the original runways at Narromine were sealed in 1942, enhancing the aerodrome's capacity to handle increased traffic and operations.
- **1947 Post-War Transition**: After the RAAF's departure in 1947, the aerodrome transitioned back to civilian use, with the Narromine Aero Club resuming its activities and continuing to promote aviation in the region.
- 1950s QANTAS Pilot Training Base: In 1958, QANTAS established a pilot training base at Narromine, with its Lockheed Super Constellations regularly seen at the aerodrome. This collaboration further cemented Narromine's status as a significant aviation centre. narromineaviationmuseum.org.au
- 1974 Transfer to Local Government: In 1974, the aerodrome was handed over to the Narromine Municipal Council. Following the amalgamation with Timbrebongie Shire Council in December 1980, it became an asset of the Narromine Shire Council.
- 1980s Gliding and Aviation Education: The 1980s saw a resurgence in gliding activities, with the establishment of the Orana Soaring Club in 1981. This period also marked the beginning of commercial gliding operations in the area. The Airport Professional

- 2002 Narromine Aviation Museum: The Narromine Aviation Museum was opened in 2002, providing a dedicated space to preserve and showcase the region's rich aviation history. The museum features exhibits from the 'barnstorming' era, World War II, and the post-war period, offering visitors a comprehensive view of Narromine's aviation legacy. MGNSW
- Present Day A Hub for Aviation Enthusiasts: Today, Narromine Aerodrome continues to serve as a vibrant hub for aviation enthusiasts, offering facilities for gliding, ultralight training, and recreational flying. The aerodrome also hosts significant events, including the National and State Gliding Championships, and attracts pilots from around the world to experience its renowned thermals.



Figure 2: Narromine Aerodrome in Circa 1940 as a RAAF base



Figure 3: NSW State Aerobatic Championships, held every June at Narromine Aerodrome



Figure 4: The former Narromine Aero-club building

Current Uses

The Narromine Aerodrome, owned and operated by Narromine Shire Council, serves as a vibrant hub for various aviation-related activities and businesses. Its strategic location, rich history, and supportive infrastructure make it a key asset for the region's economic and community development.

Aviation and Flight Training

The Aerodrome supports both recreational and professional flight training. Facilities accommodate gliders, ultralight aircraft, and private aircraft, providing opportunities for pilot training, aviation education, and recreational flying. The region's favourable flying conditions make the site an attractive location for both domestic and visiting aviators.

Emergency and Agricultural Operations

The site is utilised for emergency services, including medical evacuation and firefighting operations, enhancing regional safety and response capabilities. Agricultural aviation activities, such as aerial application and monitoring, are also supported, reflecting the Aerodrome's importance to the surrounding rural economy.

Heritage and Tourism

The Aerodrome houses aviation heritage facilities that preserve and showcase the region's history, contributing to tourism and educational opportunities. Visitors can engage with the site's aviation legacy while experiencing the local aviation environment.

Business and Private Aviation

Private and commercial operators utilise the Aerodrome for a variety of purposes, including aircraft storage, maintenance, and recreational flying. The availability of aviation infrastructure supports regional businesses and contributes to economic activity in the Shire.

Community Engagement

The Aerodrome provides a venue for community activities and aviation-related gatherings. By facilitating access to aviation experiences and educational programs, the site supports community engagement and strengthens the region's aviation culture.



Figure 5: Wright Flyer in front of the Bellman Hanger at the Narromine Aerodrome



Figure 6: "Pitts Special" at the Narromine Aerodrome

Aviation Activity

Aircraft Movements

The Narromine Aerodrome experiences regular private and recreational aviation activity throughout the year, primarily involving light to medium aircraft. Gliding activity reaches its peak during the summer months, taking advantage of optimal thermal conditions. Seasonal fluctuations are observed in activity levels, with higher traffic generally occurring from spring through autumn, coinciding with favourable weather conditions for both recreational flying and training operations.

The Aerodrome also accommodates occasional larger-scale aviation events, which attract visiting pilots and aircraft from across the region and interstate. These events are scheduled to align with periods of consistent weather and optimal operational conditions, ensuring safety and efficiency in aircraft movements.

Runway Capacity

The Aerodrome's runways and taxiways are designed to support medium-sized, longwinged aircraft, enabling a range of aviation operations, including gliding, recreational flying, and training. Taxiway C, in particular, has a maximum all-up weight (MAUW) limit of 5,700 kg, as specified in the En-route Supplement Australia (ERSA) published by Airservices Australia. This weight limitation is critical for ensuring the safe operation of aircraft using the taxiway and maintaining the integrity of the infrastructure.

The existing runway and taxiway infrastructure provides sufficient capacity for current aviation activity while allowing flexibility for future growth in traffic, subject to compliance with operational weight and safety restrictions. The Aerodrome's layout and surface standards support both routine operations and occasional higherdemand periods without compromising safety or efficiency.

Runway Characteristics

The Narromine Aerodrome comprises a combination of sealed and grassed runways to accommodate a variety of aviation operations. The site includes two bitumensealed runways:

- Runway 04/22
- **Runway 11/29**

These sealed runways support medium-sized aircraft, including recreational, private, and training operations, and provide all-weather operational capability.

In addition, the Aerodrome features three grassed runways primarily designated for glider operations:

- Runway 04/22 Grass Left
- Runway 11/29 Grass Right
- Runway 36/18

The grass runways offer additional capacity for gliding activities, ultralight operations, and lighter aircraft, enabling separation of traffic types and enhancing operational safety. This combination of sealed and grass surfaces allows the Aerodrome to efficiently support diverse aviation activities while maintaining flexibility for seasonal or event-driven peak periods.

Table 1: Summary of the runways at Narromine Aerodrome

Identification	Length	Width	Construction	
04/22	1100m	30m	Bitumen Seal	
11/29	1521m	30m	Bitumen Seal	
04/22 Grass L	1040m	90m	Grass	
11/29 Grass R	814m	60m	Grass	
36/18	848m	90m	Grass	



Figure 7: Aerial view of Narromine Aerodrome during an exhibition day

The Built Environment

The Narromine Aerodrome features a relatively low-density built environment, with structures concentrated around the main apron area. Existing buildings include aircraft hangars, office facilities, and light industrial buildings, most of which are approximately 35 years old. The mix of ownership includes both Council-leased properties and privately owned buildings used by aviation operators and associated businesses.

The site's infrastructure supports a variety of aviation activities, including aircraft storage, maintenance, and training operations, as well as administrative and operational functions. The arrangement of buildings around the apron maximises operational efficiency while maintaining open space for aircraft movements, ground handling, and future development.

A notable feature of the Aerodrome is the Narromine Aviation Museum, which was established through a collaborative initiative involving the Narromine Aero Club, Council, government grants, and community contributions. The Museum occupies a purpose-built facility under a 15-year lease and plays a key role in preserving and showcasing the region's rich aviation history.

Overall, the existing built environment provides a functional mix of aviation infrastructure, heritage facilities, and support buildings, while offering opportunities for future upgrades, expansion, and modernisation to meet the evolving needs of aerodrome users and the wider community.



Figure 8: Matt Hall Racing Aerobatic aircraft at Narromine Aerodrome

Traffic and Transport

Access to the Narromine Aerodrome is provided via a dual-direction driveway off Tom Perry Drive, which connects directly to the Mitchell Highway, ensuring safe and convenient entry and exit for both private and commercial vehicles. This connection provides easy regional access, linking the Aerodrome to major transport routes and supporting its role as a regional aviation hub.

In 2018, a joint initiative between the NSW State Government and Narromine Shire Council resulted in significant upgrades to the aerodrome entrance, internal roadway, and parking facilities. These improvements, including enhanced drainage, were completed to a high standard in recognition of the Aerodrome's increasing usage and the establishment of the Narromine Aviation Museum.

A designated car parking area is provided adjacent to the museum building, offering safe and convenient access for visitors, staff, and aerodrome users. Additional informal parking is available alongside the arterial road, accommodating overflow during peak periods and special events.

The current road and parking infrastructure adequately supports existing traffic volumes and provides a strong foundation for future growth. The upgraded access and internal circulation network enhance safety, operational efficiency, and the overall visitor experience, while allowing flexibility for increased usage associated with events, training operations, and commercial activities.

Utilities and Services

The Narromine Aerodrome is fully serviced with essential utilities, including electricity, telephone, water, and sewerage mains. These services support both operational and administrative activities across the site, ensuring reliable infrastructure for aerodrome users, businesses, and community facilities.

The residential Skypark area also benefits from access to mains gas, providing additional utility support for dwellings and associated facilities.

A public amenities block is located at the Aero Club building (Building 4), providing convenient facilities for visitors, staff, and aerodrome users. The presence of these services ensures that the Aerodrome can continue to operate efficiently and safely, while also accommodating potential future growth, upgrades, or expanded uses across the site.



Figure 9: Spectators gather at Ausfly Narromine 2022.

Recreational Opportunities

The Narromine Aerodrome currently offers limited public recreational and open space opportunities. One notable exception is an informal walking track that runs alongside an irrigation channel, providing local residents and visitors with a safe and accessible space for walking and light exercise.

While the primary focus of the site is aviation and associated activities, the presence of open areas and informal paths offers potential for complementary recreational uses in the future. Opportunities may exist to enhance public access and amenity, providing additional value to the local community while maintaining the operational integrity and safety of the Aerodrome.

Connections with the Community

The Narromine Aerodrome holds significant historical and cultural value, serving as both a landmark and a major tourist attraction within the Shire. Its long aviation history and heritage facilities contribute to a sense of local identity and pride, connecting residents and visitors with the region's unique aeronautical legacy.

Organised events, attractions, and aviation-related activities on the Aerodrome site provide ancillary benefits to the broader community. These include increased tourism, which supports local businesses, generates economic activity, and enhances the Shire's profile as a regional destination.

The Aerodrome also serves as a platform for educational and community engagement opportunities, including aviation awareness, historical interpretation, and experiential learning. By fostering connections between the Aerodrome and the wider community, the site reinforces its role as both a functional aviation facility and a valued community asset.



Narromine Skypark Residential Estate

The Narromine Skypark is a unique residential estate closely integrated with the Aerodrome, offering a lifestyle tailored to aviation enthusiasts. Situated between two runways, the estate allows aircraft owners to park their aircraft directly at their property, with seamless access to taxiways and the runways. This innovative design provides an exceptional opportunity for pilots and residents with a keen interest in aviation to combine their home and flying activities in one location.

The development is also well-located, slightly removed from the town centre and adjacent to the Narromine Golf Club, providing a balance of convenience, privacy, and lifestyle appeal. The estate offers a distinctive living experience that complements the Aerodrome's aviation operations while supporting the growth of a specialised residential community.

As of October 2025, all lots allocated across stages 1 to 8 have been sold. The Skypark estate continues to attract residents seeking a combination of aviation access, lifestyle amenities, and a strong connection to the local aviation community.

Skypark demonstrates how residential planning can successfully integrate with aerodrome operations, supporting aviation-based communities while maintaining the operational integrity of the site.



Figure 10: A view of Skypark from the street

Aerodrome **Aviation Business** Park

The Narromine Aerodrome now offers a unique opportunity for development within the Narromine Aerodrome Aviation Business Park. The industrial area was completed in 2021 and offers 22 lots of industrial land ranging in size from 2,200m2 to 5,000m2.

These freehold sites have road access to Tom Perry Drive and each of them has access to an upgraded taxiway from the rear of each lot. The lots are connected to mains water, sewer and the NBN.

The land is zoned SP1 and can include development that is related to Aviation under Council's Local Environmental Plan.

Two lots are developed with workshop/ hangarage. Several additional lots have been sold for development.





Adjoining Land Uses

The Narromine Aerodrome is surrounded by a diverse mix of land uses, including recreational, residential, rural residential, intensive plant agriculture, and general rural activities. This combination reflects the Aerodrome's location on the fringe of the Narromine township, providing a transition between urban and rural environments.

The diversity of adjoining land uses presents opportunities for compatible mixed-use development both within and around the Aerodrome, allowing for growth that complements existing activities while supporting economic and community outcomes.

Future development on and adjacent to the site should carefully consider potential impacts on neighbouring land uses and the operational requirements of the Aerodrome. Proper planning and consultation will be essential to maintain safe, efficient, and compatible operations while ensuring that surrounding land uses continue to coexist harmoniously with aviation activities.



Figure 11: An aerial view of Narromine Aerodrome with adjoining land uses 2025.

Constraints Identification & Analysis

Flooding & Drainage

The Narromine Aerodrome site is identified as flood-prone, as referenced in the Narromine Floodplain Risk Management Study and Plan (2011). Any future development on the site must comply with the controls outlined in the Narromine Flood Policy. In addition, a localised flood study has been undertaken to determine specific flood levels across parts of the Aerodrome. Areas subject to high flood affectation should be avoided for development to ensure the safety and resilience of infrastructure.

Given the extensive size of the site, stormwater management is a critical consideration. Inefficient drainage can impact both operational and residential areas, so stormwater systems should be carefully designed to mitigate potential flooding and erosion. Alternative solutions, such as Water Sensitive Urban Design (WSUD), on-site collection, storage, and reuse of stormwater, are recommended to enhance resilience and sustainability while supporting operational and residential uses.

Groundwater Vulnerability

The Aerodrome site is also classified as having a high groundwater vulnerability risk. Effective management of groundwater impacts is essential, particularly in relation to effluent disposal, fuel storage, and other potentially hazardous activities. Mitigation strategies include connecting to reticulated sewerage systems or implementing aerated wastewater treatment systems.

Incorporating these measures into site planning will help protect both the natural environment and the operational integrity of the Aerodrome. Careful consideration of flooding, drainage, and groundwater vulnerability is essential for sustainable long-term development, ensuring compliance with environmental regulations while supporting the Aerodrome's growth and community role.

Heritaae

The Narromine Aerodrome is listed as a heritage item in the Narromine Local Environmental Plan 2011. Any future development on the site should be carefully designed to respect and preserve its heritage values, as identified in the Community Based Heritage Study and the site's associated Statement of Significance.

In May 2018, the Narromine Aerodrome Conservation Management Plan was completed, providing a detailed assessment of the heritage significance of the site. Two structures are recognised as having high heritage significance:

- Hangar Number 1 (built 1937)
- Bellman Hangar (c. 1943)

Several other elements are considered of moderate heritage significance, including:

- The former parade ground
- The site layout established during World War II
- The former lesser QANTAS building (relocated)
- Bitumen paved apron

Preservation of these heritage items is essential for maintaining the historical integrity of the Aerodrome, providing both educational and cultural value to the community. Any redevelopment or upgrades should be sympathetic to these heritage assets, ensuring that operational improvements or new facilities do not compromise the site's historical significance.

Future planning and development should include ongoing consultation with heritage specialists and relevant regulatory authorities to ensure compliance with heritage protection requirements and to support adaptive reuse where appropriate.

Waste Management

The Narromine Aerodrome is serviced by the Council's contracted waste collection service, ensuring the regular and safe removal of waste generated by aerodrome operations, tenants, and visitors. Effective waste management is essential to maintain site hygiene, support operational efficiency, and minimise environmental impacts.

Contamination

Given the historical use of the site, there is potential for contamination in certain areas, particularly on the apron and runway surfaces. Prior to any future development, detailed site investigations should be conducted to assess the presence and extent of contamination.

The need for remediation works should be determined on a case-by-case basis, depending on the type, scale, and location of the proposed development. Implementing appropriate assessment and management measures will ensure that land use is compatible with environmental and safety standards, protecting both users and the surrounding community.

By proactively managing waste and addressing potential contamination, the Aerodrome can support sustainable operations while facilitating safe, long-term development opportunities across the site.

Traffic

Traffic volumes at the Narromine Aerodrome are generally low under normal operational conditions. However, during larger events, traffic and parking demand can increase significantly, creating challenges in site access, circulation, and parking management.

Any future development or expansion of the Aerodrome should consider the potential impact on traffic. This may include conducting traffic impact assessments to determine appropriate road design, construction standards, and ongoing maintenance requirements to accommodate increased vehicle movements safely and efficiently.

Potential mitigation measures could include the provision of additional dedicated car parking areas, improved internal road layouts, clear signage, and traffic management systems during peak usage periods. Incorporating these measures into planning and development ensures the Aerodrome can support both everyday operations and high-demand events without compromising safety or operational efficiency.

Existing Infrastructure

Water and Sewer

With the assistance of grant funding, Council has replaced the asbestos water mains at the Aerodrome and relocated firefighting hydrants to better accommodate operational and emergency service requirements. All effluent from the Aerodrome, except for that generated within the Skypark residential area, is collected by a new pump station located within the industrial subdivision. These improvements enhance the reliability and safety of water and wastewater infrastructure on the site.

Power

Electricity is primarily delivered to the Aerodrome via aboveground services, with the exception of the Skypark residential estate and hangar sites located beyond the main access road. These arrangements provide adequate electrical supply for both operational and residential purposes while allowing flexibility for future development.

Telephone and Internet

The Aerodrome has access to existing telecommunications services, including telephone and Internet, provided by relevant service providers. This connectivity supports day-to-day operations, administrative functions, and residential needs at Skypark, while enabling potential expansion of business and training activities on site.

Noise and Vibration

As activity at the Aerodrome increases over time, ambient noise levels are expected to rise moderately. However, no dramatic increases in noise or vibration are anticipated under normal operational growth. Noise impacts will need to be monitored and managed, particularly in relation to residential areas and surrounding land uses, to ensure ongoing compatibility and community acceptance.

Amenity

The Narromine Aerodrome benefits from low ambient noise levels and a scenic outlook, providing an attractive environment for both aviation operations and residential or recreational uses. The proximity of the site to the Narromine Golf Club and the Macquarie River enhances the visual amenity and offers additional recreational opportunities. Future development should aim to preserve these qualities, ensuring that new buildings, infrastructure, or facilities are designed to complement the existing landscape and maintain the site's aesthetic and environmental values.

Obstacle Limitation Surfaces (OLS)

Obstacle Limitation Surfaces (OLS) define the maximum heights that structures and vegetation may reach in the vicinity of the Aerodrome to prevent obstructions to aircraft flight paths. Any development on or near the Aerodrome must comply with these height restrictions to ensure aviation safety. Compliance with the OLS is a key consideration in planning new buildings, infrastructure upgrades, or landscaping works, and should be integrated into all stages of site design and development.

The OLS for Narromine Aerodrome is documented in the official OLS Plan held by Council. All proposals for development should refer to this plan to ensure alignment with operational and safety requirements.

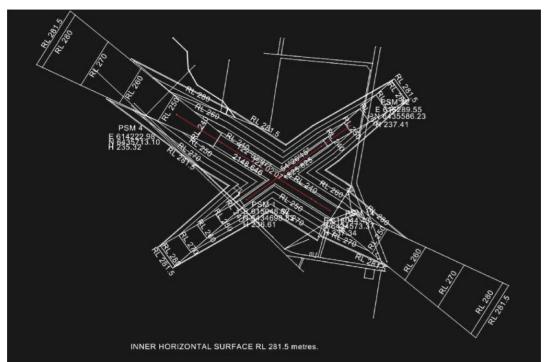


Figure 12: Narromine Obstacle Limitation Surfaces (not for reporting purposes)

Instrument Approaches

To assist pilots in safe navigation, the Narromine Aerodrome is equipped with two windsocks that provide real-time indications of wind speed and direction. These visual aids support both take-off and landing operations for a range of aircraft types.

In addition to visual cues, pilots may utilise a GPS-based instrument approach. Airservices Australia publishes a certified RNAV approach for the Aerodrome, identified as RNAV-Z (GNSS) RWY-11. This approach provides standardised navigation guidance, enhancing operational safety, particularly in reduced visibility or challenging weather conditions.

The RNAV-Z (GNSS) RWY-11 approach documentation is publicly available and can be accessed via Airservices Australia at:

https://www.airservicesaustralia.com/aip/pending/dap/NRMGN01-147 27FEB2020.pdf.

Incorporating instrument approaches ensures the Aerodrome can support a wider range of aviation operations, improves accessibility for visiting aircraft, and maintains compliance with regulatory standards for civil aviation safety.

Lighting

Pilot Activated Lighting (PAL) is installed along Runway 11/29 to assist night and lowvisibility operations. In addition, taxiway centreline lighting is provided along the bitumen-sealed taxiways, supporting safe ground movements during periods of reduced visibility. These lighting systems enhance operational safety and accessibility for visiting aircraft.

Security

The Aerodrome is equipped with security measures including restricted access gates, perimeter fencing, and signage delineating public and airside areas. In accordance with the Narromine Aerodrome Manual and Civil Aviation Safety Authority (CASA) regulations, security measures are tailored to the classification and operational activities at the site. These controls ensure both aviation safety and compliance with regulatory requirements.

Refuelling Facilities

A 24-hour Avgas fuel bowser is operated on site by a private operator under lease from Council. An additional, currently unused, facility is located in the apron area. All refuelling infrastructure is required to comply with the Underground Petroleum Storage Systems Regulation 2019, including monitoring and protection systems, to ensure environmental safety and operational reliability.

Regulatory Framework

The Narromine Aerodrome is a registered aerodrome and must comply with Civil Aviation legislation and regulations. While an Aerodrome Manual is not mandatory, the site must meet physical standards set out in CASA Part 139 Manual of Standards, and ensure that information published in the En-Route Supplement Australia (ERSA) is accurate and current. Compliance with these standards ensures the Aerodrome operates safely and efficiently while meeting national aviation requirements.

Planning Framework

The planning framework for the Aerodrome is governed by the Environmental Planning & Assessment Act 1979, administered by the NSW Department of Planning, Housing and Infrastructure. Locally, the primary planning instruments are:

- Narromine Local Environmental Plan (LEP) 2011
- Narromine Development Control Plan 2015
- Section 7.12 Development Contributions Plan

These documents guide permissible and prohibited developments, identify development standards, and provide a framework for managing land use, environmental impacts, and community outcomes. Council has also prepared supporting land use strategies to inform future planning instruments.

The LEP 2011, specifically the SP2 Infrastructure zoning, governs development within the Aerodrome site and includes provisions relevant to airspace operations. Together, these regulatory and planning instruments ensure that future development maintains operational integrity, minimises negative impacts on the environment and community, and supports the long-term viability of the Aerodrome.

7one SP2 Infrastructure

Objectives of zone

The SP2 Infrastructure zone is designed to:

- Provide for infrastructure and related uses.
- Prevent development that is not compatible with, or may detract from, the provision of infrastructure.

Permitted without consent

Roads

Permitted with consent

- Aquaculture
- Any development consistent with the purpose shown on the Land Zoning Map, including development that is ordinarily incidental or ancillary to that purpose

Prohibited Development

Any development not specified as permitted without consent or permitted with consent is prohibited in the SP2 Infrastructure zone.

Applicable LEP Clauses Narromine

6.9 Airspace operations

- (1) The objectives of this clause are as follows:
 - a) to provide for the effective and ongoing operation of the Narromine Airport by ensuring that such operation is not compromised by proposed development that penetrates the Limitation or Operations Surface for that airport,
 - b) to protect the community from undue risk from that operation.
- (2) If a development application is received and the consent authority is satisfied that the proposed development will penetrate the Limitation or Operations Surface, the consent authority must not grant development consent unless it has consulted with the relevant Commonwealth body about the application.
- (3) The consent authority may grant development consent for the development if the relevant Commonwealth body advises that:
 - a) the development will penetrate the Limitation or Operations Surface but it has no objection to its construction, or
 - b) the development will not penetrate the Limitation or Operations Surface.

(4) The consent authority must not grant development consent for the development if the relevant Commonwealth body advises that the development will penetrate the Limitation or Operations Surface and should not be constructed.

(5) In this clause:

Limitation or Operations Surface means the Obstacle Limitation Surface or the Procedures for Air Navigation Services Operations Surface as shown on the Obstacle Limitation Surface Map or the Procedures for Air Navigation Services Operations Surface Map for the Narromine Airport.

Relevant Commonwealth body means the body, under Commonwealth legislation, that is responsible for development approvals for development that penetrates the Limitation or Operations Surface for the Narromine Airport.

Air transport facility means an airport or a heliport that is not part of an airport, and includes associated communication and air traffic control facilities or structures.

Airport means a place that is used for the landing, taking off, parking, maintenance or repair of aeroplanes, and includes associated buildings. installations, facilities and movement areas and any heliport that is part of the airport.

Development Control Plan 2011

The applicable clauses from the Narromine DCP 2015 include guidance on aircraft noise, height limitations, reflective materials, and certain restricted developments.

Asset Management and Regulatory Compliance

Council is responsible for the prudent management of its assets, ensuring compliance with relevant regulatory requirements while identifying and securing funding to maintain and improve service provision. Effective asset management supports the safe and efficient operation of the Narromine Aerodrome and ensures that infrastructure is maintained to meet both current and future community needs.

Narromine Section 7.12 Contributions Plan

The Narromine Section 7.12 Contributions Plan, adopted in November 2019, provides a framework for Council to levy contributions on developments to fund infrastructure service provision and necessary upgrades. Under Section 7.12 of the Environmental Planning & Assessment Act 1979, Council may collect contributions to address the increased demand for public facilities and services generated by new development.

It is important to note that Section 7.12 contributions do not require a direct nexus between the specific development, the infrastructure being funded, and the contribution collected. These funds can therefore be applied more broadly to support essential infrastructure improvements, including those at the Narromine Aerodrome, ensuring that the site continues to meet operational, safety, and community requirements.

Master Plan

The Narromine Aerodrome Master Plan provides a comprehensive framework for desired land uses and development objectives across the site. It adopts an integrated approach, ensuring that all facets of development are complementary and designed to minimise potential land use conflicts. The Plan is intended to guide growth over the short, medium, and long term, balancing operational requirements with economic, social, and environmental outcomes.

Objectives of Development

The key objectives for development at the Narromine Aerodrome are:

- Maintain Aerodrome Operations: Ensure the ongoing operations of the Aerodrome for the benefit of all aviators and the wider aviation community.
- Mixed-Use Development: Provide for a variety of compatible land uses, including business, industrial, community, and accommodation developments.
- **Economic Growth and Employment:** Encourage employment and economic development through business opportunities, tourism, and enhancements to airside operations.
- Context-Sensitive Innovation: Promote development that is innovative while remaining sympathetic to the existing character and heritage values of the site.

Land Use Zones

Development is guided by Land Use Zones, which identify permissible activities and provide development objectives. The following zones are recommended for the Aerodrome:

- **SP2 Infrastructure:** This zone applies to land unlikely to be repurposed in the future and is designated for essential infrastructure. For the Aerodrome, this includes Air Transport Facilities as defined in the Local Environmental Plan (LEP).
- R1 General Residential: This zone accommodates a range of housing types and densities, as well as associated development such as neighbourhood shops and community facilities. The existing **Skypark** residential estate falls within this zone.
- **SP1 Special Purpose (Aviation):** Intended for land uses or sites with special characteristics that cannot be accommodated within other zones. Permitted uses are annotated on the land use map, along with any ancillary development.
- **IN1 General Industrial:** This zone provides for a wide range of industrial and warehouse uses, including both light and heavy industrial activities, such as depots, workshops, and warehouses.
- **RE1 Public Recreation:** Reserved for recreational and community facilities, this zone supports the provision of open space, leisure, and sporting opportunities.

Precinct Planning

The Aerodrome site is divided into precincts based on primary land use and development objectives. Each precinct is designed to optimise land use efficiency, enhance operational safety, and ensure compatibility with adjoining areas. The precinct-based approach allows for tailored planning controls and facilitates staged development in alignment with the Aerodrome's long-term strategic vision. The current precincts are outlined below

	Skypark Pocidential Estate
Precinct 1	Skypark Residential Estate This area is zoned R1 General Residential. The intent of the area is to be an aviation-compatible residential estate. Development controls ensure compatibility with the aerodrome operations, as well as maintaining the desirability of the precinct.
	Active Airside
Precinct 2	This area is to remain an active airside area and subject to all civil aviation requirements. The proposed land use zoning is as current, SP2 Infrastructure.
	Community and Commercial
Precinct 3	This area is central to the connections between the local aviation and non- aviation communities. The zoning allows for a combination of aviation-related, and commercial uses. This area will form the 'hub' of the public interface with the aerodrome. Development controls for this area will encourage active use of the site, generate community interest and provide opportunity for the establishment of aviation related businesses.
	Aviation related commercial uses and Hangar Area
Precinct 4	The objective of this area is to provide opportunity for aviation related commercial businesses to establish, including aircraft construction and maintenance, and hangars. The land use zone in this precinct is SP1, development controls, are to be implemented in relation to compatibility, amenity and public access.
	Industrial and Transport
Precinct 5	The desired land uses of the industrial and transport precinct include storage, transport and construction to take advantage of the adjoining transport networks of road, rail, and air traffic. This is a long term vision and site-specific studies incorporating supply and demand for such land would be required prior to developing this precinct.
	Expansion Reserve
Precinct 6	This area is reserved for compatible future aviation use. At this time there are no plans to expand the residential area and the use of this area may place additional constraints on runway 22 and the northern grass strips. The development of this area is not an immediate priority.



Figure 13: Aerial view of Aerodrome showing the specific precinct areas

Strategic Plan

The recommendations outlined in this document are derived from previous Narromine Aerodrome plans, as well as input gathered during the consultation process. Each recommendation has been assessed against the site constraints identified within this document. The outcomes of this assessment form the actions presented in this section.

It should be noted that all development proposals are subject to individual development assessment. Key considerations include aviation interface and operations, natural hazards, environmental constraints, and impacts on adjoining land uses. As a result, the final outcomes for any particular development may differ from the actions described in this Plan.

To ensure clarity and effective implementation, the recommended actions are categorised according to context and assigned a reference number. These reference numbers are used in the Staging Plan, which assigns a suggested timeframe for completion, identifies the responsible party, and proposes potential funding sources.

The staging and implementation of these actions may be influenced by external factors, such as regulatory changes, funding availability, and operational requirements. As such, it is anticipated that the recommendations may be refined or updated during regular reviews of the Master Plan, ensuring that the Aerodrome continues to develop in a safe, efficient, and sustainable manner over the next 25 years.

Actions

	ACTIONS		
1.	. Planning and Rec	gulatory Framework	
No.	Description	Details	Timeframe
1.1	Conservation Management Plan	Ensure that development within the aerodrome considers the issues and priorities raised within the Conservation Management Plan 2018.	Ongoing
1.2	Subdivide land for individual ownership	Facilitate development through the subdivision and sale of existing buildings (such as hangars and offices) and surrounding land. Additionally, new, serviced development sites should be offered for sale.	Short term
1.3	Enforce covenants and restrictions	To mitigate land use conflicts and improvement of amenity through appropriate development controls. These site-specific controls can be detailed in the Development Control Plan.	Ongoing
1.4	Asset Management Planning	To ensure consistent management of the site in accordance with CASA, Air Services Australia and Council requirements, the most effective option is for the CASA requirements of aerodrome operations to be included in a management plan for the aerodrome. These requirements include: security, navigation and safety compliance. This document would	Ongoing

replace the current Aerodrome Manual.

2.	2. Aviation Activity		
No.	Description	Details	Timeframe
2.1	Ensure runway and airside facilities meet modern requirements	 Continue to allow for provision of runway renewal and maintenance Continue to maintain and improve aerodrome fencing for vermin management Be open to further development of the facility in line with future events and the needs of the developing industrial area 	Medium to long term
2.2	Amend ERSA with updated information	With constant changes taking place on the site, the ERSA (En Route Supplement Australia) is required to be maintained with current information.	Ongoing

	3. Built Environment		
No.	Description	Details	Timeframe
3.1	Private hangarage options	 Individual hangar sites for glider storage Additional hangar sites for larger aircraft Combination of private and business hangar sites Hangar sites with 'weekender' accommodation options While Council is not in a position to construct individual hangars, it can facilitate the subdivision and sale of land for the purpose of this and other development such as flying schools and aircraft maintenance facilities. 	Ongoing
3.2	Maintain a formal glider trailer storage area	To facilitate convenient and orderly glider trailer tie down and storage.	Ongoing
3.3	Events facilities and infrastructure	To encourage aviation events to the site, preparation should be made to incorporate the necessary facilities required for these events. These facilities include amenities, car parking, undercover display areas, control towers, and viewing areas.	Medium
3.4	Develop facilities to encourage aerodrome use by peak aviation bodies, clubs and instructors.	Given the rich history of usage by peak governing bodies and the ongoing opportunities for additional events consideration to develop purpose built facilities to accommodate increased usage for events and by peak bodies should be given.	Short- medium
3.5	Heritage Conservation	Based on the rich history of the site, Council should consider carefully managing the heritage significance through conservation and adaptive reuse initiatives.	Ongoing

4.	Traffic and Transpo	rt	
No.	Description	Details	Timeframe
4.1	Improve and extend internal road network	Improve public roads within the precinct when funding is available	Ongoing

5. Community Connections

No.	Description	Details	Timeframe
5.1	Community benefits	Assets and facilities of Council provide benefit to the community by direct use of the item, however these facilities can provide indirect benefits to the local economy through the accommodation and catering of visitors/events etc.	Medium
5.2	Public Open Space	The provision of public open space and recreational facilities provides for additional uses on the site and increased community and user connections. Open space facilities encourage healthy, active living and improve amenity. Further planning should be undertaken in regard to the recreation facilities, landscaping and approved usage of the parade ground particularly in regards to the heritage of the site.	Ongoing Ongoing
5.3	Events Planning	Work with event coordinators to deliver successful planning of aviation and community events.	Ongoing

6.	. Infrastructure		
No.	Description	Details	Timeframe
6.1	Public Transport Connections	With the anticipated increase in visitors and residents to the aerodrome, it is important to maintain public transport links with the town centre.	Ongoing
6.2	Underground Petroleum Storage Systems	There are currently two existing fuel storage facilities on the site, only one currently in use. Council is responsible for the compliance of these facilities with the UPSS Regulations and is subsequently required to install monitoring equipment around the facilities. Issues to be considered in this action include: the current use of the facility, the cost of installing the monitoring equipment, the impacts of Council absolving responsibility of the units and the possible costs of installing alternative systems.	Ongoing

7.	Economic Develop	pment	
No.	Description	Details	Timeframe
7.1	Funding Options	Council has adopted a series of fees and charges for those using the site. Ongoing charges and income are derived from: Leases Proceeds from the sale of land Developer contributions Hire fees It should be noted that landing fees are not considered an option for revenue due to the possible discouragement of aircraft to the site, the cost prohibitive nature of the management of the system and the aim to remain competitive with other similar aerodromes. Additionally, the Skypark lots were advertised for sale, stating 'no landing fees' were incurred on the site. A service level review will occur within the next four years which includes a review of "service standards and potential for generating income". This will include a review of landing fees.	Ongoing
7.2	Advertising and Signage	To encourage visitors, local residents and businesses to the site, Council should actively undertake advertising of the site. The updating of a 'prospectus' for businesses and residents interested in relocating to the site, once the	Medium

developments are serviced. This prospectus should include information on the likelihood of noise from the activities on the site.

8	. Amenity		
No.	Description	Details	Timeframe
8.1	Landscaping	The amenity of the site can be improved through appropriate landscaping including trees, shrubs, fencing, mowing and weeding. These actions provide opportunity for community involvement in the shaping and maintenance of the site.	Short- medium
9	. Natural Environme	ont Control of the Co	
9 No.	. Natural Environme	Details	Timeframe

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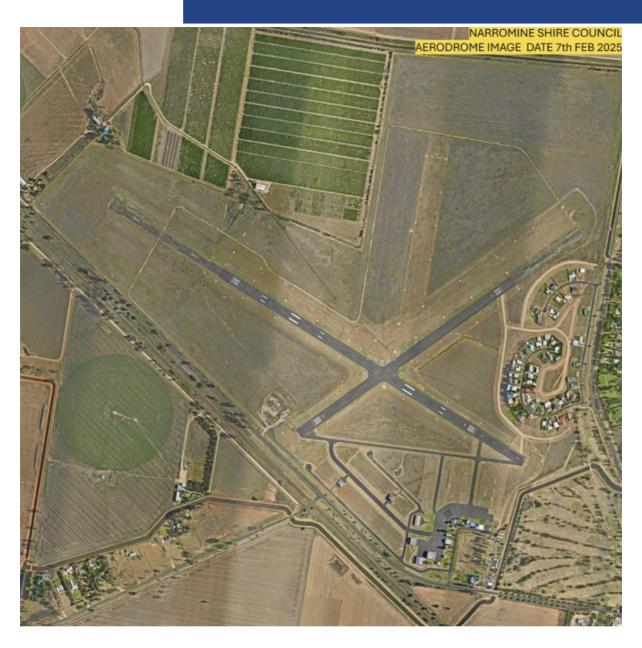
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Narromine Saleyards Master Plan and Strategy

Introduction and Background

The Narromine Saleyards, once a prominent and vital facility supporting the local livestock industry, have fallen into disuse and are currently in a state of disrepair. Located on Manildra Street, south of the railway line the site is owned by on council owned land within the Narromine Shire Council, † The site historically served as an important livestock trading hub, attracting regional producers and buyers. However, changing industry practices, economic shifts, and evolving infrastructure needs have led to the closure of the yards, with livestock sales transitioning to other venues or and methods.

The current condition of the saleyards site presents challenges for Council, particularly in effectively maintaining vegetation <u>and vermin</u> due to the existing fencing and infrastructure. As the yards are no longer in use, the area has become somewhat neglected and detracts from the overall appearance of the community.

In recognition of these issues, Council has resolved to repurpose the site in a manner that meets current community and industry needs, optimizes land use, and aligns with strategic infrastructure and environmental priorities. This Master Plan outlines the phased strategy for the redevelopment of the former Narromine Saleyards precinct to deliver a modern truck parking facility, stormwater management infrastructure, and improved parking amenities for local schools and light vehicles. The plan allows for a Council Depot Expansion, if required, into the future.

Strategic Vision

To transform the former Narromine Saleyards site into a functional, safe, and environmentally sustainable precinct that supports Narromine's transport and freight industry, provides appropriate community facilities, and enhances urban amenity through well-planned land use and infrastructure investment.

Site Analysis

- Location: The saleyards site is located on Manildra Street, immediately south of the railway line. The location is on a heavy vehicle route, the nearby food options and existing toilet and shower block suggesting this is a good location for a heavy vehicle rest area and truck driver facility.
- Encouraging heavy vehicles to use this parking area and Manildra Street will reduce the number of heavy vehicles entering the town and using the Dandaloo Street crossing, while still ensuring drivers have convenient access to nearby amenities
- <u>Current</u> Condition: The site contains obsolete saleyard infrastructure including fencing, livestock panels, and gates in poor condition. The land is currently open but unmaintained beyond intermittent slashing and weed spraying. The site is not accessible to the public for either recreational use or commercial use.
- Environmental considerations: The site experiences seasonal stormwater runoff and lacks dedicated drainage or stormwater treatment facilities.
 The lack of defined stormwater within the area results in localised flooding within the catchment area south of the railway line.
- **Planning Requirements:** The area is currently zoned R1 General Residential, however, further planning work is required. As the land is classified as 'Operational' and Council owned, the SEPP (Transport and Infrastructure) 2021 will likely provide an approval pathway without need for any LEP amendment.
- **Community interface:** Adjacent land uses include a school, Narromine Shire Council's depot, the railway line and residential homes.

Objectives

- Remove redundant and unsafe saleyard infrastructure to improve site safety and visual amenity.
- Develop a purpose-built truck parking facility that meets regulatory standards and addresses demand for secure, accessible parking.
- Incorporate a dedicated stormwater catchment basin to improve flood resilience and water quality management, drainage within the catchment area, particularly for nearby residential properties.

- Upgrade and expand light vehicle parking capacity, particularly for nearby schools, improving traffic flow and road user safety.
- Upgrade pedestrian facilities between the truck parking facility and the fuel station, including footpaths, <u>pedestrian and and crossingsrail</u> crossings.
- Maintain the site as a clean, open space during redevelopment phases to discourage unauthorized use and minimize ongoing maintenance obstacles.

Proposed Master Plan Stages

The following stages are proposed to achieve the above Objectives.

Stage 1: Infrastructure Removal and Site Clearance

Expression of Interest (EOI) for Removal and Purchase:
 Initiate an EOI process inviting interested parties to remove and purchase existing fencing, panels, gates, troughs and other reusable infrastructure on-site. This approach maximizes resource recovery and reduces disposal costs.

• Council-led Removal and Auction:

If EOI is unsuccessful or insufficient, Council will arrange for the removal of infrastructure by its own crews or contractors. A public onsite auction will be held to sell salvageable materials. Unsold items will be transported to the Narromine waste facility for recycling or scrap metal processing where feasible.

• Site Preparation:

Following removal, the area will be slashed, graded as necessary, and maintained as an open space. No fencing will be installed at this stage to allow flexible access and reduce immediate capital outlay.

Stage 2: Development and Interim Management

• Bathroom Access Controls:

Install lock systems on existing bathroom facilities designed to restrict access primarily to truck drivers, such as an Avdata key or similar RFID access system. This will reduce misuse and enhance hygiene and safety standards.

• Detailed Design Development:

Engage design consultants to prepare detailed concept plans for the truck parking layout, stormwater basin, and light vehicle parking upgrades. The design will consider:

- Regulatory compliance for truck parking including size, turning circles, and security.
- Environmental engineering for stormwater management including detention, infiltration, and pollution control.
- Integration with school parking needs, pedestrian safety, and traffic flow.
- Planning requirements including land zoning and development controls to be considered and complied with.

Community and Stakeholder Consultation:

Conduct consultation with key stakeholders including local trucking operators, school representatives, emergency services, and the broader community to refine design objectives and address concerns.

This document was placed on public exhibition in September 2025

Funding and Budgeting:

Identify potential grant opportunities at state and federal levels for infrastructure upgrades, particularly those focused on transport, regional development, and environmental management. Include the project in Council's long-term financial planning and budget forecasts.

Stage 3: Construction and Finalization (Future Phase)

- Pending successful funding and approvals, proceed with the construction of the truck parking facility, installation of stormwater catchment basin, and expansion/upgrades to light vehicle parking.
- Implement signage, lighting, and landscaping improvements to enhance safety and site aesthetics.
- Develop ongoing maintenance and management plans to ensure the facility remains functional and safe.

Additional Considerations

• Environmental Sustainability:

Design the stormwater basin to serve as a functional wetland or vegetated basin to enhance biodiversity and community amenity. Utilize native landscaping and consider solar lighting to reduce energy consumption.

To ensure the park area is able to be fully utilised, the area will be planted with additional shady trees, the drainage needs will become a focal point and picnic tables and seating will be installed throughout the park.

Safety and Security:

Incorporate CCTV monitoring and appropriate lighting to improve security for users and reduce vandalism or illegal dumping.

Traffic Management:

Design entry and exit points to minimize congestion on adjacent roads and ensure safe interaction between heavy vehicles, light vehicles, pedestrians, and cyclists. One-way directional traffic and delineated heavy and light vehicle areas along with formalised pedestrian crossings and entrances and exits will help to improve the safety and usability of the proposed space.

Site History

To celebrate the history and significance of the Narromine Saleyards, it is proposed to erect a monument and an "information wall" with photographs and historical information within the park area. This will help to celebrate, remember and share the importance of the site with locals and visitors.

Community Benefits:

Opportunity to provide multipurpose open space elements where possible, including potential for passive recreation or educational signage relating to local history and ecology.

• Compliance:

Ensure all works meet relevant Australian standards, local regulations, and environmental guidelines.

Interim Management

Until redevelopment proceeds, the site will be maintained as a safe and tidy open space. Regular mowing and litter collection will be undertaken. The absence of fencing will allow flexibility for future development and minimize current maintenance costs. Access restrictions will be implemented through signage and monitoring to discourage unauthorized use.

Conclusion

The Narromine Saleyards Master Plan presents a pragmatic and phased approach to repurposing a significant Council-owned site. Through careful removal of obsolete infrastructure, community-focused design, and investment in essential transport and environmental infrastructure, the site will be revitalized to meet contemporary needs. The proposed development will enhance local amenity, improve safety, and contribute positively to Narromine's regional transport and environmental management goals.

Saleyards – Concept Layout



<u>Appendix A – Summary of Feedback from Public Consultation</u>

#	Main Comments
1	Supports the proposal. Believe it will be beneficial for the school Would like to see further safety considerations for Terangion Street, particularly where the future crossing for school students will be located.
2	Is not in favour of the proposal Is not in favour of the area becoming a truck stop Would like to see the history of the saleyards celebrated Would like to see the area become a park / large monument and preserving the history
3	Is not in favour of the proposal Noted that the current parking area is often full of permanently parked trailers The master plan does not include any shops or attractions for truck drivers to stop The car park for the school is showing favouritism to one school Would like to see the history of the saleyards celebrated
4	Is not in favour of the proposal Would like to utilise the existing amenity block for other uses (e.g. driver reviver, mobile vet) Would like to have light vehicle and caravan parking available near the amenities Would like to see the history of the saleyards celebrated
5	Is not in favour of the proposal – does not support a truck stop in this location Would like to utilise the existing amenity block for other uses (e.g. driver reviver, mobile vet) Would like to have light vehicle and caravan parking available near the amenities Would like to see the area become a park / large monument and preserving the history Would like to keep at least one set of yards and a ramp



Narromine Shire Council

Strategic Plan

Water and Sewerage



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Cover photo: Narromine Temporary Water Treatment Plant

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Executive Summary

A Local Water Utility's (LWU) Strategic Plan is its 30-year strategy for the provision of appropriate, affordable, cost-effective, and sustainable urban water services that meet community needs and protect public health and the environment. The key outcomes of a LWU's Strategy are a 30year Total Asset Management Plan (TAMP), a 30year financial plan and a drought and emergency response contingency plan (DERCP).

Narromine Local Government Area

Narromine Shire is a local government area (LGA) located in central NSW approximately 330 km north-west of Sydney and about 40 km west of Dubbo. The major urban centre in the Narromine Shire is the Narromine township, along with two other towns Trangie and Tomingley. Narromine Shire Council services the towns of Narromine, Trangie and Tomingley with water supply and Narromine and Trangie with sewerage services. Residents of Tomingley use on-site sewage management systems.

Growth Strategy

The Department of Planning in conjunction with the Renewable Energy Zone (REZ) development have updated their projections based on the REZ projects and available information regarding other large projects such as the Inland Rail and Tomingley Gold development. The predictions made as a result of combining these projects see an overall population increase of approximately 450 people through to 2032. The projections are shown in Figure S1.

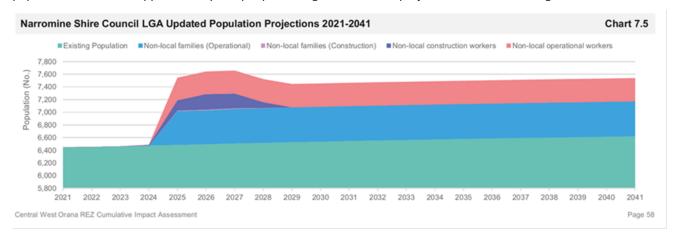


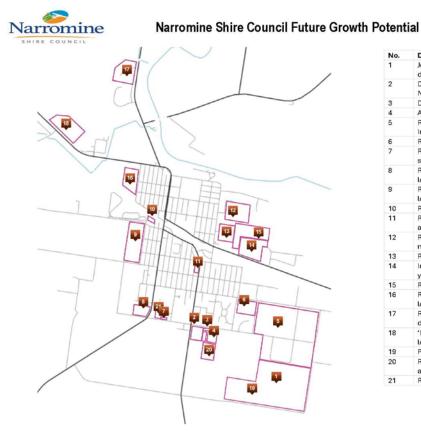
Figure S1:

The prediction during the construction phase of these projects is for a total of 1200 additional people to be housed in the Shire for approximately 4 years of 'peak' construction. For the purpose of planning, Council have nominated a growth in the Narromine population to be 450 people with an expected further surge of at least 1000 people during construction. For this strategic planning, the following growth was considered for the service areas over the 30-year planning horizon:

- 543 people in Narromine
- Two lots per year in Trangie
- No growth in Tomingley

The spatial distribution of the growth in Narromine is shown in Figure S2.





Description Jones Circuit 18 residential lots R5, future development NSC owned Dappo Road 15 lots constructed, 11 lots vacant, NSC owned Dappo Road 16 lots constructed, 14 lots vacant Aged Care over 55's 31 units DA approved R5 Residential land not subdivided not serviced. Infill potential if serviced 4000m2 R1 Residential land not subdivided not serviced R1 Residential development 7 lots DA approved not subdivided, not serviced R1 Residential land not subdivided not serviced 15 lots R1 Residential land not subdivided not serviced 40 lots Residential development 6 units DA approved Residential development 16 units DA approved CC approved, under construction R1 Residential development 77 lots DA approved, not yet under construction, not serviced 12 13 14 R1 Residential land not serviced Industrial development 22 lots DA approved, not yet under construction, not serviced 15 R1 Residential land not subdivided not serviced R1 Residential land not subdivided not serviced 50 lots Residential land 27 lots constructed; 16 lots not 17 developed 'Industrial' development 22 lots constructed, 20 18 lots not developed, NSC owned Potential Workers camp 500 beds Residential land not subdivided not serviced DA approved 15 lots R1 potential 14 residential lots, not serviced

Figure S2: Spatial distribution of growth in Narromine

The forecast serviced population for the water supply and sewer serviced areas are presented in Table 5-1 and Table 5-2.

Table S1: Projected water supply service area population

	2022	2027	2032	2037	2042	2047	2052
Projected water supply serviced population							
Narromine	3,214	3,482	3,698	3,749	3,757	3,757	3,757
Trangie	788	801	823	841	841	841	841

Table S2: Projected sewer service area population

Projected sewer serviced population							
Narromine	3,051	3,401	3,651	3,901	3,956	3,956	3,956
Trangie	710	723	745	762	762	762	762



Narromine water supply scheme

Water security

The 30-year forecast unrestricted annual demand is estimated to be 1,280ML/year which is less than Council's current total ground water entitlement of 2,000ML/year. Hence Council's existing entitlement is sufficient to meet the forecast 30-year water requirements.

Yield modelling of the groundwater system demonstrates that there is sufficient groundwater to supply current demand, however doubt remains about meeting demand post 2033. Experience has shown there is little opportunity to construct new bores near the town. Council's preferred option is to continue the use of groundwater bores and add river supply to preserve groundwater resources for when needed by obtaining a surface water license to extract from the Macquarie River and construct a pipeline to the water treatment plant. The construction and connection of the supplementary river water source into the water supply system has been deferred to 2040 to gain a better understanding of the groundwater system and also to prioritise addressing the water quality issue and to reduce the impact on ratepayers.

Water quality

There is a very high inherent source water pathogen risk due to disused uncapped bores in close proximity along with numerous failed stock and domestic bores. There is also a very high residual risk of chlorine-resistant pathogens as there are no effective treatment barriers for chorine resistant pathogens at the treatment plant. The groundwater is also high in iron, manganese, hardness and bentonite.

The preferred option is to upgrade the existing temporary plant to meet the current and future capacity and water quality performance requirements. This is the priority project for Council.

Distribution system

The infrastructure leakage index (ILI) for the Narromine Potable WSS was 6.7, indicating a high loss rate. The loss was around 264 L/assessment/day, which is approximately three times the state median. The following actions have been undertaken to improve the system performance with the result that the Narromine 2024-2025 water balance returned an (ILI) of 1.1

- Council developed and implemented a community education program on water saving measures.
- Council has developed and implemented a water loss management plan
- Completed the installation of smart water meters and the introduction of District Metering Areas
- Carried out two rounds of leak detection surveys via the DCCEEW sponsored water loss management process
- Council may consider limited time rebates depending on its budget position for replacement of water fittings and appliances (including evaporative coolers)

The system capacity needs augmentation to maintain the supply pressure of 20 metres. The system is especially vulnerable if there is a failure of the reticulation booster pumps.

The level of service has been considered in 'right sizing' the water treatment plant and any additional storage. This also includes additional volume to build resilience into the system to be able to maintain continuity of supply in the event of a 6-hour interruption.

Trangie water supply scheme

Water security

The 30-year forecast unrestricted annual demand is estimated to be 364ML/year which exceeds Council's total entitlement of 350ML/year. Council should monitor the annual increase in water consumption and apply for an increase in entitlement as the total annual dry year extraction approaches 350 ML/year. Other options to avoid exceeding the entitlement in a dry year include imposing restrictions and reducing the network leakage.

Water quality



There are no health water quality issues with the Trangie water supply scheme however an aesthetic issue relating to high sodium levels creates major taste issues that create a very negative community perception of the water supply. Water from the bore field is chlorinated prior to being stored in a 2.5ML storage reservoir. No other means of treatment or correction of aesthetic issues (high sodium content) can be carried out as the system has no other treatment units beyond disinfection. Addressing the aesthetic issue relating to salinity has been deferred to focus on the Narromine water treatment plant upgrade.

Distribution system

The (ILI) for the Trangie water supply scheme was 12.6 which placed it in the highest leakage category, and indicated that there was significant potential for Council to reduce leakage

Council adopted the same strategy for system performance improvement as that used for the Narromine water supply scheme. Reducing the losses due to leakage has also meant that Council can defer the need to apply for additional entitlement.

Adoption of the water loss strategy has led to the 2024-2025 Trangie water balance returning an (ILI) of 2.9 which is a significant decrease, though more can be achieved.

Tomingley water supply scheme

Tomingley water supply scheme has been completely rebuilt since 2022 including a new fully compliant drinking water treatment plant, reservoir and reticulation system. The 2024-2025 water balance shows an ILI of 0.1 which is in keeping with a new system.

If the bore water in mine fails or if the mine shuts, there is currently no other alternate water source for Tomingley.

Narromine sewerage scheme

Collection and transfer system

Council selected the 1 in 10 year (10% annual exceedance probability), 1-hour event as the containment standard for the collection and transfer system. For this containment standard, sewage pumping stations 1 and 2 would require a capacity upgrade for the current network and to service future growth.

Davis Drive Development

The lots in Davis Drive, are serviced by onsite sewage management systems (OSSMS). There are 10 lots spread across approximately 5 ha and are not too far from the water supply bore field. If these OSSMS do not perform well there is a risk of contaminating the ground water table. The preferred option for sewering this development is a low pressure sewer system that discharges to Councils gravity sewer network. Council has a policy for low pressure sewer systems.

Sewage treatment plant

The Narromine sewage treatment plant has sufficient capacity to service the forecast 30-year growth. The following upgrades are identified to address performance issues and have been commenced during the 2025 financial year with a sludge survey being undertaken and a study into inlet screening options being undertaken:

- Install a screening system at the inlet works
- De-sludge primary oxidation pond to avoid impacting on the performance of the plant
- Provide septage receival system to receive sullage and other pump outs form the Shire

Trangie sewerage scheme

Collection and transfer system

Council selected the 1 in 10 year (10% annual exceedance probability), 1-hour event as the containment standard for the collection and transfer system. The Trangie sewage collection and transfer system can contain a 1 in 10-year 1 hour rainfall event without any major surcharges or overflows.

Sewage treatment plant



The Trangie sewage treatment plant has sufficient capacity to service the 30-year forecast growth.

Effluent flows from the maturation pond at the Trangie STP flow along a 2 km effluent discharge channel and terminates at the Trangie Agricultural Research Station. Human contact with this effluent and access by stock, are both possible and constitutes a risk.

In the short-term Council will address the recommendations provided by GHD to address this and other performance and work health and safety related issues.

An options study of a new inlet screening systems has been completed and equipment ordered to install a brush screen at the head of the works to deal with WHS issues regarding the inlet works of the plant. Other actions outlined in the GHD report of April 2022 are being investigated and considered for implementation.

Unserviced communities

The performance of the OSSMSs were assessed for the unserviced area of Tomingley. The clayey sands and small lot sizes (1,000m²) could potentially impact the effluent disposal from the septic tanks which could have a public health impact. Council has decided not to sewer Tomingley. An effluent pump out system for the small lot sizes could be considered but this is not included in the asset management plan. An on-site sewage management policy should be prepared.

Future Actions and Implementation plan

Table S3 and Table S4 show the bundled Scenarios segregated for convenience into water supply and sewerage schemes. The issues that are being addressed by each option are also listed.

Table S3: Shire wide water supply scenario – infrastructure needs

Target for compliance	Issue	Option	Scenario 1	Scenario 2	
Narromine wate	Narromine water supply scheme				
Water security	Drought reliability of the water supply	Utilise the existing bores and supplement with water from Macquarie River. Construct a raw water pump station and intake and a pipeline to the existing water treatment plant – Pipeline route from the River intake to the WTP to be finalised later.	√ 2040		
		Continue to use groundwater bores and locate sites for additional bores to meet demand.		√ 2040	
Water quality	High risk of chlorine sensitive and chlorine	Upgrade existing temporary plant	√ 2025		
resistant pathogens in the water supply.		New conventional treatment plant with sedimentation tank and mechanical sludge dewatering		✓ 2025	
System perform	ance				
Non-revenue water at Narromine and Trangie	The infrastructure leakage index (ILI) for the Narromine and Trangie potable water supply schemes are 6.7	Develop and implement a community education program on water saving measures.	√ 2026	✓ 2026	



Target for compliance	Issue	Option	Scenario 1	Scenario 2
water supply schemes	and 12.6 respectively indicating very high water losses.	 Develop and implement a water loss management plan Consider limited time rebates for replacement of water fittings and appliances (including evaporative coolers) 		

Table S4: Shire wide sewerage scenario – infrastructure needs

Target for compliance	Issue	Option	Scenario 1	Scenario 2
Sewerage sys	tem issues			
	Nar	romine sewerage scheme		
Reliability of infrastructure – collection and transfer system	Reduce overflows at SPS1: Check overflow level in the pumping station	Option 1 provide new pumps in SPS 1 with pumping rate upgraded to 68 L/s and related switchboard upgrades	√ 2025	
		Increase the storage capacity by the construction of a new wet well	√ 2040	
		Option 2 Increase the storage by construction of a new wet well		✓ 2025
	Surcharging in Catchment 2	upgrade the SPS 2 pumping rate to at least 25 L/s with associated switchboard upgrades	√ 2040	√ 2040
Reliability of infrastructure - STP	Raw sewage at the STP is not screened and could lead to build up of solids and grit	Install screening system at the STP inlet works.	✓ 2025	√ 2030
	System performance impacted by lack of sullage pump out facilities.	Provide septage receival system at the Narromine STP	✓ 2025	√ 2030
Infrastructure performance	Oxidation pond has not been de-sludged and performance may be impacted	De-sludge primary oxidation pond	✓ 2026	√ 2026
Trangie sewerage scheme				
Infrastructure performance	Improve effluent quality	Undertake investigations recommended in the GHD report	✓ 2025	✓ 2025
Unserviced ar	eas			
On-site sewage	Systems in lots on Davis Drive are in	Gravity reticulation and pumped sewerage system	√ 2030	



Target for compliance	Issue	Option	Scenario 1	Scenario 2
management systems	proximity to the water supply bores	Low-pressure sewerage system		√ 2030

Typical Residential Bills (TRB) Analysis

The bundled water supply and sewerage scenarios were assessed in terms of their impact on customer bills referred to as Typical Residential Bills. Approximate annual TRBs for water supply and sewerage services have been estimated by way of setting up financial models using Finmod 4.0 financial modelling software. TRB analysis is discussed in detail in Section Error! Reference source not found.

'First-cut' developer charges

For TRB analysis, 'first-cut' water supply and sewerage developer charges (DCs) in consideration of the estimated costs and timings of major capital work initiatives have been calculated in accordance with the 2016 NSW Developer Charges Guidelines for Water Supply, Sewerage and Stormwater. 'First-cut' DCs are the preliminary developer charge estimates that need to be reviewed and refined in consideration of additional service areas and agglomerations, cross-subsidy requirements etc., before adoption by the Council, and are presented in Table S4 and Table S5.

Table S4: First-cut developer charges - water supply

Scenario	Current (2023 -24) Developer Charge	First-cut Developer Charge per ET (2023-24\$)			
	per ET	Narromine	Trangie	Tomingley	
Baseline	3,000	15,898	207	Nil	
IWCM Scenario 1	3,000	16,914	207	Nil	
IWCM Scenario 2	3,000	16,489	207	Nil	

Table S5: First-cut developer charges – sewerage

Scenario	Current (2023 -24) Developer Charge	First-cut Developer Charge per ET (2023-24\$)		
	per ET	Narromine	Trangie	
Baseline	3,500	4,275	4,275	
IWCM Scenario 1	3,500	4,675	4,675	
IWCM Scenario 2	3,500	4,775	4,775	

TRB forecasts for the water supply and sewerage services were then made with the assumption that Council will be adopting and levy the developer charges at the level of first-cut estimates. TRB analysis help comparing the bundled scenarios to support the selection of a preferred scenario to be adopted as the Council's strategy. Figure S3 and Figure S4 compare the TRB forecasts for the water supply and sewerage scenarios respectively.

Further financial modelling was undertaken after selecting the preferred scenario and adjustments to the input parameters were made in keeping with Council's internal financial planning process.



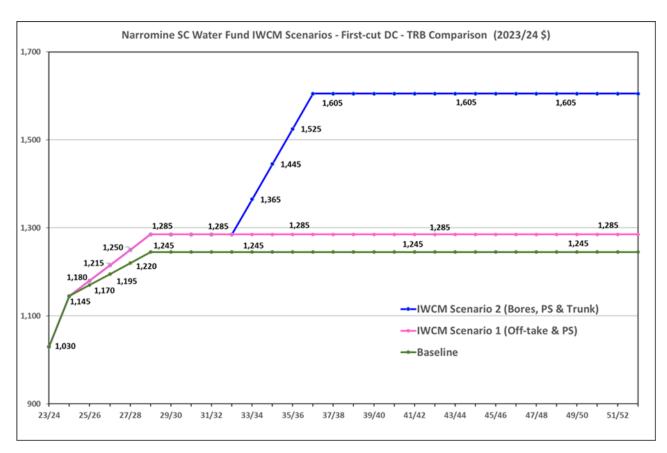


Figure S3: Comparison of TRB forecasts for Scenarios - Water supply

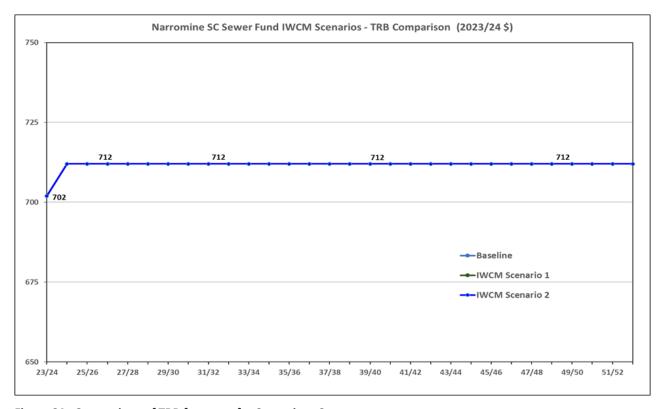


Figure S4: Comparison of TRB forecasts for Scenarios - Sewerage



Asset Management

Council's Water supply and Sewerage Asset Management Plans provide a detailed overview of the asset management systems, procedures and strategies in place to ensure delivery of services in a financially sustainable manner.

The preferred strategy to address the Council's asset system and performance issues has enabled Council to develop the total asset management plan (TAMP) over a 30-year planning horizon. The TAMP provides detailed schedules of water supply sewerage capital works into the future with a view to satisfy the forecast service demands in terms of growth, improved levels of service and renewal of existing assets in the most cost effective manner.

The TAMP also provides the details of routine and additional operations, and management (O&M) expenditure over a 30-year period.

Long-term Financial Plan

Long-term financial plans (LTFP) for water supply and sewerage funds have been prepared using the TAMPs for the preferred scenarios to set up the financial models. Financial models set up using the Finmod 4.0 financial modelling software enable Council to forecast the lowest stable sustainable price path for water supply and sewerage services on which to base Council's tariff structure. Note, all the forecast values are in 2023-24 dollars unless specified otherwise and needs to be indexed for CPI annually.

For strategic planning purposes, Council has resolved to cap and adopt the estimated developer charges (DCs) at the following levels for the financial model forecasts of the preferred strategy and the corresponding TAMP.

- DC for water services in Narromine and Trangie: \$5,000 per ET
- DC for sewerage services in Narromine and Trangie: \$2,000 per ET

Water fund LTFP

The water fund financial model assumes 75% of the estimated capital cost of Narromine water treatment plant upgrade project is to be funded through government grantor subsidy (a contribution of \$21.5 Million).

Typical residential water bills for the water supply tariff structure adopted by Council for the following years have been estimated and used in the model.

- TRB for 2023-24: \$1,030 p.a.
- TRB for 2024-25: \$1,150 p.a.
- TRB for 2025-26: \$1,275 p.a.

The financial model demonstrates that the 2025-26 typical residential water bill of \$1,275 p.a. (\$1,365 p.a. in 2025-26 dollars) needs to increase by \$50 to achieve a TRB of \$1,325 p.a. in 2026-27 and can be maintained at that level for all the remaining forecast period (i.e. increases in line with CPI only).

Council's water fund had no outstanding borrowing as of 30 June 2025. With the recommended price path, new loans to the tune of \$7.0 Million will be required to fund Council's contribution of the WTP upgrade works. An additional loan (estimated at \$1.0 Million) will be required in 2039-40 to fund Council's contribution of the raw water intake PS and pipeline to WTP project capital works. Note: At this point in time Council has not secured grant funding or subsidy for the pipeline project.

The projected levels of TRBs is sufficient to maintain liquidity with a minimum level of cash and investment of \$500K in the water fund throughout the forecast period. The TRB forecasts, levels of cash and borrowing outstandings for the water fund over the 30-year forecast period are presented in Figure S5. For more details of water fund financial model outcomes, refer to Section 16.4.



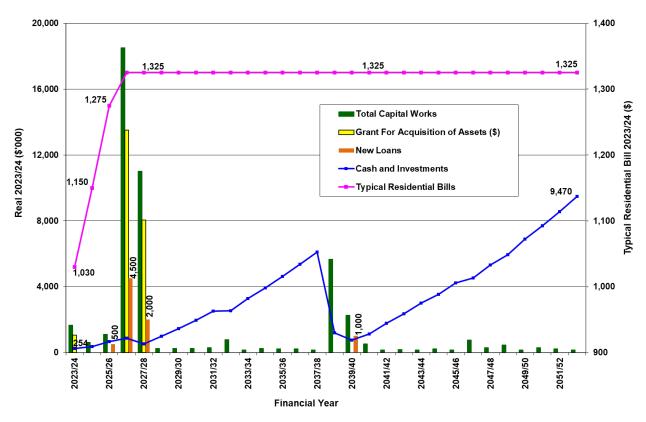


Figure S5: Water fund financial model forecasts summary

Sewer fund LTFP

Council's sewer fund financial model for the preferred strategy considers no government grants or subsidy for any of the capital works planned for the next 30 years.

Typical residential sewerage bills based on the annual sewerage access charges for the residential customers adopted by Council for the following years have been used in the model.

- TRB for 2023-24: \$702 p.a.
- TRB for 2024-25: \$715 p.a.
- TRB for 2025-26: \$715 p.a.

The sewer fund financial models demonstrate that the 2025-26 annual residential sewerage access charge of \$715 p.a. (\$761 p.a. in 2025-26 dollars) can be maintained for all the remaining years of the 30-year forecast period (i.e. increases in line with CPI only).

Council's sewer fund had no outstanding borrowing as of 30 June 2025. The model forecasts demonstrate that with the recommended price path, no new loans will be required fund any of the planned capital works during the 30-year forecast period.

The forecast levels of TRBs is sufficient to maintain liquidity with a minimum level of cash and investment of \$500K in the sewer fund throughout the forecast period. The levels of cash and borrowing outstandings during the forecast period are presented in Figure S6. For more information on sewer fund financial model forecasts, refer to Section 16.5.



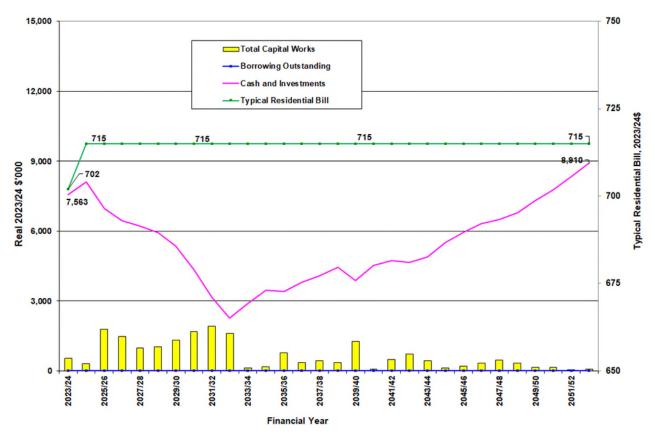


Figure S6: Sewer fund financial model forecasts summary



Contents

Ex	ecutive S	Summary	i				
Glo	ossary of	f Terms	V				
Ab	breviatio	ons and Acronyms	v				
1.	Intro	duction	8				
2.	Strate	egic context	9				
3.	Levels of Service						
4.	Operating Environment Compliance						
5.		lation assessment and projections					
6.	-	omine raw water supply					
7.		omine potable water supply scheme					
/٠	7.1	Water source					
	7.2	Raw water quality					
	7.2	Current water treatment					
	7.4	Treated water quality					
	7.5	Distribution system					
	7.6	Non-revenue and unaccounted for water					
	7.7	Water projections					
	7.8	Water security assessment					
	7.9	Water quality assessment					
	7.10	System capacity assessment	30				
8.	Trang	gie water supply scheme	32				
	8.1	Water source	33				
	8.2	Water treatment	33				
	8.3	Distribution system					
	8.4	Non-revenue and unaccounted for water					
	8.5	Water projections					
	8.6	Water security assessment	36				
9.	Tomingley water supply scheme						
	9.1	Water source					
	9.2	Water treatment					
	9.3	Distribution system					
	9.4	Non-revenue and unaccounted for water	37				
	9.5	Water projections					
	9.6	Water system issues					
	9.7	Water security assessment	38				
10		omine sewerage scheme					
	10.1	Scheme description					
	10.2	Hydraulic loadings					
	10.3	Projections					
	10.4 10.5	Assessment of collection and transfer system					
11		gie sewerage schemegie					
-1	. 11.1	Scheme description					
	11.2	Hydraulic loadings					
	11.3	Projections					
	11.4	Assessment of collection and transfer system					
	11.5	Sewage treatment plant					
		0					



12. Unserv	iced communities	51			
13. Future	actions and implementation plan	52			
13.1	Scenarios				
13.2	Present value analysis	54			
1/1 Typical	residential bill (TRB) analysis	55			
14.1	Input details				
14.2	Developer charges				
14.3	Water supply TRB forecasts for Scenarios				
14.4	Sewerage TRB forecasts for Scenarios				
15. Asset n	nanagement	60			
15.1	Total asset management plan				
15.1.1	Capital works				
15.1.2	Recurrent operation and maintenance works	64			
16. Financi	al plan	65			
16.1	Financial modelling methodology				
16.2	Financial model inputs	67			
16.2.1	Charges	68			
16.2.2	Revenues and expenditures				
16.2.3	Service provision				
16.2.4	Funding capital works				
16.2.5	Performance measures				
16.3	Assumptions and limitations of the Model				
16.4	Financial model outcomes – Water supply				
16.4.1 16.4.2	Projected financial position Sensitivity of financial projections – Water supply				
16.4.2	Financial model outcomes – Sewerage				
16.5.1	Projected financial position				
16.5.2	Sensitivity of financial projections – Sewerage				
17 Pefere	nces				
17. Neierei	1003	00			
Appendix A	Present value cost analysis				
Appendix B	30-year Capital Works Programs – Water Supply				
Appendix C	30-year Capital Works Programs – Sewerage				
Appendix D	Additional OMA cost schedules				
Appendix E	Financial Model Input Data				
Appendix F	Financial Model Output Data				
Tables					
	vels of Service – water supply	0			
	evels of service – water supply				
	evels of service – General				
	perating environment compliance				
Table 5-1: Projected water supply service area population					
Table 7-1: N	arromine water supply – bore details	23			
	arromine water supply scheme – Average year demand projections				
	arromine water supply scheme – Unrestricted dry year demand projections				
Table 7-4: N	arromine water supply scheme – Peak day demand projections	28			



Table 7-5: Narromine water supply scheme – Water Access License	29
Table 7-6: Resilience assessment – continuity of supply during interruption	
Table 7-7: Narromine WTP clear water tank sizing	31
Table 8-1: Trangie water supply scheme – Average year demand projections	35
Table 8-2: Trangie water supply scheme – Unrestricted dry year demand projections	
Table 8-3: Trangie water supply scheme – Peak day demand projections	35
Table 8-4: Trangie water supply scheme – Water Access License	36
Table 9-1: Tomingley water supply scheme – Estimated customer demands	38
Table 10-1: Projected ADWF for the Narromine sewerage scheme	41
Table 10-2: Narromine STP EPL monitoring and discharge points	
Table 10-3: Concentration limits for EPL 11715	44
Table 10-4: Narromine STP process unit performance assessment	44
Table 10-5: Capacity assessment of the Narromine STP	
Table 11-1: Projected ADWF for the Trangie sewerage scheme	
Table 11-2: Trangie STP process unit performance assessment	
Table 11-3: Capacity assessment of Trangie STP	
Table 12-1: Assessment of on-site sewage management system performance at Tomingley	
Table 13-1: Shire wide water supply scenario – infrastructure needs	
Table 13-2: Shire wide sewerage scenario – infrastructure needs	
Table 13-3: Summary of capital and PV costs for the IWCM Scenario – water supply	
Table 13-4: Summary of capital and PV costs for the IWCM Scenario – sewerage	
Table 14-1: First-cut Developer Charges – Water Supply	
Table 14-2: First-cut Developer Charges – Sewerage	
Table 16-1: Key Input Parameters – Water Fund Financial Model	
Table 16-2: Key Input Parameters – Sewer Fund Financial Model	
Table 16-3: Projected Financial Results – Water supply	
Table 16-4: Projected Financial Results – Sewerage	77
Figures	
_	_
Figure 1-1: Narromine Shire Local Government Area map	
Figure 5-1: Department of Planning population projections for Narromine Shire Council LGA	
Figure 5-2: Spatial distribution of future growth in Narromine	
Figure 6-1: Schematic diagram of Narromine raw water supply system	
Figure 7-1: Schematic diagram – Narromine potable water supply	
Figure 7-2: Narromine water supply – bore locations	
Figure 7-3: Narromine water supply scheme – temporary treatment plant	
Figure 7-4: Narromine water supply – distribution system	
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined.
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined 32 33
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined. 32 33 33
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined 32 33 33 ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined
Figure 7-5: Narromine potable water supply - water balance	ookmark not defined

NSW Public Works



Figure 14-2: Comparison of 30-year capital works program – Sewerage	56
Figure 14-3: Comparison of 30-year OMA expenditures – Water supply	56
Figure 14-4: Comparison of 30-year OMA expenditure – Sewerage	57
Figure 14-5: Comparison of TRB forecasts for IWCM scenarios – Water supply	59
Figure 14-6: Comparison of new loans for IWCM scenarios – Water supply	59
Figure 14-7: Comparison of TRB forecasts for IWCM scenarios – Sewerage	60
Figure 15-1: 30-year Capital cost summary – Water supply	63
Figure 15-2: 30-year Capital cost summary – Sewerage	63
Figure 15-3: 30-year Recurrent O&M cost summary –Water supply	
Figure 15-4: 30-year Recurrent O&M cost summary –Sewerage	65
Figure 16-1: Elements of financial modelling	66
Figure 16-2: Typical Residential Bill - Water supply	71
Figure 16-3: Cash and borrowing outstandings projections - Water supply	72
Figure 16-4: Sensitivity of TRB forecasts – Water supply	74
Figure 16-5: Sensitivity of Borrowing outstandings – Water supply	
Figure 16-6: Sensitivity of Cash & Investments – Water supply	75
Figure 16-7: Typical Residential Bill - Sewerage	76
Figure 16-8: Cash and borrowing outstandings projections – Sewerage	76
Figure 16-9: Sensitivity of TRB forecasts – Sewerage	
Figure 16-10: Sensitivity of Borrowing outstandings – Sewerage	
Figure 16-11: Sensitivity of Cash and Investments — Sewerage	



Glossary of Terms

Term	Definition
Differential head (ΔH)	Difference between water surface levels upstream and downstream of a hydraulic control structure such as a dam, weir, or fishway.
Headloss (Δh)	Difference in water surface levels under flowing water conditions either side of a hydraulic control feature/component/element such as a gate (differs whether fully or partially opened), constriction, or fishway baffle.
Headwater level (HWL)	Water level immediately upstream of a control structure that is not affected by any significant draw-down or localised flow effects.
Left and Right	The terms <i>left</i> and <i>right</i> are with respect to the view in the downstream direction, in accordance with industry standard practice for dams and river infrastructure works. Usage aids the description of directional orientation with respect to the direction of flow in relation to a river, stream, control structure or a related site.
Percentile (%'ile)	Term used to indicate thresholds or boundary values in frequency distributions. For example, 95 th percentile (5 percent exceedance) is that value which marks off the lowest 95 percent (highest 5 percent) of observations from the rest; the 50 th percentile is the same as the median value (i.e. middle value in a ranked list of all values).
	For fish passage projects, <i>percentiles</i> are typically more appropriate rather than <i>exceedances</i> since upstream fish passage is typically impacted over the lower range flows when the river control structure is a significant barrier to upstream fish migration.
	For dams, culverts, bridges, and flood mitigation (e.g. levee) type projects, exceedances are typically used to describe high flow frequencies since hydraulic design capacity and flood risks are most concerned with the upper range of flows and peak flows together with respective occurrence probability.
Tailwater level (TWL)	Water level immediately downstream of a control structure that is beyond the zone of any significant structure related hydraulic effects, high energy flow and/or significant turbulence.



Abbreviations and Acronyms

Item	Description
≈ or ~	approximately equal to
ΔΗ	differential head (refer to Glossary)
Δh	headloss or component differential head (refer to Glossary)
AEP	annual exceedance probability - expressed as a percentage ('% AEP') for events with a frequency \geq 1%, and as '1 in X AEP' for events with a frequency $<$ 1%
AHD or mAHD	Australian Height Datum (in metres)
BWL	bottom water level
CH or Ch	chainage
CTF, CtF, or ctf	cease-to-flow – for <i>falling stream</i> , and commence-to-flow – for <i>rising stream</i>
D/S or d/s	downstream
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DEM and DTM	digital elevation model; and digital terrain model
dia,\varnothing	diameter
DPIF	Department of Primary Industries - Fisheries Division
Dwg	drawing
f'c	concrete design characteristic compressive strength after 28 days
FSL	full supply level, and full storage level
GL	gigalitres (1 x 10 ⁹ L, 1000 ML)
HW and HWL	headwater, and headwater level (refer to Glossary)
L/s or l/s	litres per second
m³/s or cumecs	cubic metres per second (1 m³/s is equivalent to 1000 L/s)
ML and ML/d or ML/day	megalitres (1 x 10^6 L); and megalitres per day (1 $m^3/s = 86.4$ ML/d)
No.	number
nom	nominal
NS and NSL	natural surface, and natural surface level
NSWPW	NSW Public Works
O&M and O&MM	operation and maintenance, and operation and maintenance manual
Q	flowrate or discharge
ref	refer, or reference
RFS and RFT	Request For Services, and Request For Tender
RL	reduced level relative to an established datum (typically AHD)
SWI and SWMS	Safe Work Instruction, and Safe Work Method Statement
tba, tbc, and tbd	to be advised, to be confirmed, and to be determined
T.O.	top of
TW and TWL	Tailwater, and tailwater level (refer to Glossary)



Item	Description
typ	typical
u.n.o. or uno	unless noted otherwise
U/S or u/s	upstream
WAE	work as executed (as constructed/built)
WNSW	WaterNSW
WL and WSL	water level; and water surface level
WLL	working load limit (typically in tonnes or kilograms)
w.r.t.	with respect to



1. Introduction

Narromine Shire is a local government area (LGA) located in central NSW approximately 330 km north-west of Sydney and about 40 km west of Dubbo. The major urban centre in the Narromine Shire is the Narromine township, along with two other towns Trangie and Tomingley.

A map of the Narromine Shire LGA from Google Maps is shown in Figure 1-1.

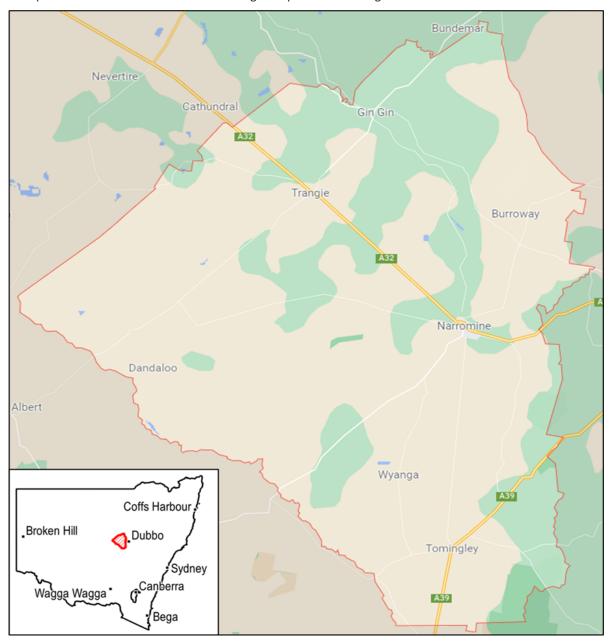


Figure 1-1: Narromine Shire Local Government Area map

Water supply service

There are four water supply schemes that Council operates in the Narromine Shire LGA:

- 1. Narromine Potable Water Supply Scheme (WSS)
- 2. Narromine Raw WSS currently non-operational due to infrastructure age and condition
- 3. Trangie WSS
- 4. Tomingley WSS

Water and Sewerage



Sewerage

There are two sewerage schemes that Council operates in the Narromine Shire LGA:

- 5. Narromine Sewerage Scheme
- 6. Trangie Sewerage Scheme

Unserviced communities

Tomingley is the only town that is currently unserviced for sewage.

2. Strategic context

A local water utility's (LWU's) Water and Sewerage (W&S) Strategic Plan is a 30-year strategy for the provision of appropriate, affordable, cost-effective, and sustainable urban water services that meet community needs and protect public health and the environment. The Strategy:

- Identifies the water supply and sewerage needs of an LWU;
- Right sizes' any infrastructure projects and determines their priority;
- Identifies the lowest level of stable Typical Residential Bill (TRB) to meet the agreed levels of service;
- Includes a 30-year Total Asset Management Plan (TAMP) and Financial Plan; and
- Identifies strategies to mitigate identified organisation risks such as drought, water quality health-based targets, climate change and community expectations on levels of service.

The nominated growth and levels of service (LOS) targets are the key drivers that impact the development of the TAMP. The 30-year financial plan determines the revenue requirements to support the TAMP and forecasts the Typical Residential Bill (TRB) and the Developer Charge (DC) for the preferred strategy. The process is iterative, and an affordable level of service and TRB is determined through community and stakeholder consultation.

3. Levels of Service

The Levels of Service framework developed from objectives and targets relevant to the water supply, sewerage management and general services, has been provided in Table 3-1, Table 3-2 and Table 3-3. The performance indicators and targets have been nominated by Council. Each objective has one or more Service Standard (or Design Basis) drawn from legislation, best practice guidelines, and industry practice

Table 3-1: Levels of Service – water supply

Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
Water supply see	curity			
Adequate potable water for current and future	5/10/10 rule based on 99th percentile unrestricted future demand based on DPIE	Average duration of drought-related restrictions	Restrictions no more than 5% of time	For Narromine, potable water restrictions were in place from January 2018 to February 2021.
generations with reasonable level of restrictions	Water's draft guidelines "Assuring future urban water security, Assessment and Adaption guidelines for			For Trangie, water restrictions were n in place from December 2017 to February 2021.
	NSW local water utilities"	Frequency (average number) of drought-related Level 3 restrictions	Less than one event per 10 years	For Narromine Potable WSS, there were Level 3 and above restrictions from January 2019 to March 2020.



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
				For Trangie WSS, there were Level 2 restrictions from October 2019 to October 2020.
				Less than one event per 10 years
		Supply capacity during normal worst recorded drought demand	90% of normal demand	100% of normal demand supplied
Projected town water supply extraction is within the upper limit of the water extraction licence and meets any licence conditions	Not exceeding the licensed entitlement and any other conditions	Annual volume of water extracted	Narromine Potable WSS: 2,000 ML/year Trangie WSS: 350 ML/year	Maximum extraction year: Narromine Potable WSS: 988 ML/year (2018/19) Trangie WSS: 351 ML/year (2018/19)
Minimise water resource dependent	100% compliance with the Water Sharing Plan (WSP) requirements	Number of breaches with the WSP requirements	Zero Breaches	Nil breaches for all schemes
environmental and third- party impacts	100% compliance with the work approval conditions	Number of breaches with the work approval conditions	Zero Breaches	Nil breaches for all schemes
Drinking water	quality			
Protects public health	100% compliance with the Australian Drinking Water Guidelines (ADWG) for health- based parameter	Number of boil water alerts	Nil boil water alerts	No boil water alerts issued for Narromine Shire Council
	Compliance with the DWMS	DWMS – annual reviewed and regularly audited	. 100% compliance	Nil exceedances for Critical Control points.
	100% compliance with critical control points (CCPs)	Number of CCP exceedances	Zero CCP critical limit exceedances per year	Narromine: No CCP exceedances in 2020, see. Trangie: No CCP exceedances in 2020.



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance	
Aesthetically fit for purpose		I I	complaints per	From Council's historical complaints log:	
		year	Narromine: One complaint in 2021, 6 in 2020, 1 in 2019, 3 in 2018, 1 in 2017.		
				Trangie: Zero complaints	
		Complaints of taste (e.g.	Zero complaints per	From Council's historical complaints log:	
		chlorine, palatability, hardness,	year	Narromine: One complaint in 2020 and 1 in 2019.	
		staining of fitting/fixtures)		Trangie: One complaint in 2019.	
		Complaints of odour (be	Zero complaints per	From Council's historical complaints log:	
		specific, e.g. algae, others)		year	Narromine: One complaint in 2020, 1 in 2018 and 1 in 2017.
				Trangie: One complaint in 2016.	
Reliability of s	upply infrastructure				
Limit supply interruptions	Asset condition rating at 2022 valuation Weighted Average Remaining Useful Life 69.5 Years	Number of unplanned service interruptions due to asset failure:			
		Water mains breaks	10 mains breaks per 100 km per year	1.29 mains breaks per 100 km per year in 2019/20, 2.62 in 2018/19, 3.96 in 2017/18 ²	
		Unplanned interruptions	10 unplanned interruptions per 1,000 connections per year	1.26 unplanned interruptions in 2019/20, 1.68 in 2019/18, 1.21 in 2017/18 ²	
		Duration of unplanned interruptions	Average 120 mins per event	46 mins in 2019/20, 60 mins in 2018/19, 60 mins in 2017/18 ²	
Maintain continuous		Response time to incidents ¹ :			



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
service availability	Adequate level of workforce resourcing with appropriate skills	Priority 1: Failure to maintain continuity or quality of supply to a large number of customers or to a critical use at a critical time	60 minutes (during working hours) 120 minutes (after hours)	60 minutes (during working hours and after hours)
		Priority 2: Failure to maintain continuity or quality of supply to a small number of customers or to a critical use at a critical time	180 minutes (during working hours) 240 minutes (after hours)	60 minutes (during working hours and after hours)
		Priority 3: Failure to maintain continuity or quality of supply to a single customer	1 working day	1 working day
		Priority 4: A minor problem or complaint that can be dealt with at a mutually convenient time	14 working days	14 working days
Maintain adequate pressure	Treatment and distribution system capacity designed to supply 95th percentile peak day demand.	Number of incidents causing complaints about pressure	Narromine Target Zero Trangie < Five per year Tomingley < Five per year	From Council's historical complaints log, Narromine: 5 complaints in 2020, 4 in 2019, 11 in 2018 Trangie: One complaint in 2021, 1 in 2020 and 2 in 2017.
Provide adequate firefighting capability	System can supply 10 L/s for 4 hours when supplying peak day demands while maintaining positive pressure	Percentage of urban area with fire-fighting facilities and capability appropriate to land zone	Narromine & Trangie 100% of urban area served	100% area served ¹



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
		Percentage of systems/facilities capable of meeting fire engine requirements	Tomingley	Unable to meet standard

Table 3-2: Levels of service – sewerage

Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance	
Reliability of c	Reliability of collection and treatment infrastructure				
Maintain Continuous Service Asset condition rating Weighted Average	Number of unplanned service interruptions due to asset failure:	Zero per year			
Availability	Remaining Useful Life 69.5 Years	Backup of sewage into properties	Zero per year	No data	
		Overflow due to pump failure	Less than two per year ¹	Zero sewer overflows per 100 km per year in the past seven financial years from 2019/20 ²	
		Sewer mains blockage/collapse	Less than 60 breaks per 100 km of sewer per year	3.69 breaks and chokes per 100 km per year in 2019/20, 16.67 in 2018/19 and 18.52 in 2017/18 ²	
	Workforce resourcing	Response time to incidents ¹ :			
		Priority 1 – Failure to contain sewage within the sewer system or any problem affecting a critical user at a critical time	60 minutes (during working hours) 120 minutes (after hours)	60 minutes (during working hours and after hours)	
		Priority 2 – Minor failure to contain sewage within the sewer system or any problem affecting a critical user at a non-critical time	180 minutes (during working hours) 240 minutes (after hours)	60 minutes (during working hours and after hours)	
		Priority 3 – Minor failure to contain sewage affecting a	Next working day	Next working day	



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
		single property or as bad odours		
Protect the en	vironment and receiv	ring waters		
System Performance	Compliance with the EPL	Non-compliances with EPL	100% Compliance	No complaints in the last 5 years
	Contains 8 hours of sewage load at average dry weather flow (ADWF) within each SPS	Number of overflows at ADWF	Zero	Zero sewer overflows per 100 km per year in the past seven financial years from
	Rainfall event with a 20% AEP (1-in-5 year event)	Number of overflows for the selected rainfall event	Zero overflows for a less than 20% AEP rainfall event	No data. Council advised that the flat terrain in Narromine makes assessing the overflows from SPS and manholes difficult.
	Compliance with biosolids guidelines	Non-compliances with biosolids guidelines	Meets statutory requirements ¹	Meets statutory requirements
	Reduce effluent discharge from the STP	% effluent reuse	100% reuse	Council has reported nil reuse in the last five years.
	Minimise odours	Number of odour complaints	Less than two complaints per year ¹	From Council's historical complaints log, 1 complaint reported in May 2018, and 1 in Dec 2017, both instances in Narromine.
Sound regulation of sewerage	Compliant liquid trade waste (LTW) policy	Extent of implementation	100% implementation of policy	Council has an LTW Policy and implements the Policy
and trade waste	Compliant LTW classification, acceptance and approval processes	Percentage of compliant systems/premises	70% of systems/premises compliant with LTW policy	Narromine: 50% of systems/premises discharging LTW Trangie: 78% of systems/premises discharging LTW
	Full cost recovery pricing model or pricing model based on Appendix D of the LTW Guidelines	Pricing model based on Appendix D of the LTW Guidelines	Full cost recovery from pricing model	According to Council's LTW policy, the LTW services are provided to commercial users with full cost recovery



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
				through fees and charges.

Table 3-3: Levels of service – General

Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
Community wellb	peing			
Public open spaces (POS) are maintained green with fit- for-purpose cost-effective water	Greener parks, ovals and open spaces	Percentage of all POS to be maintained green independent of weather patterns	75%	100% of Target met since end of the last drought
Environmental su	ustainability			
Minimise dependence on grid power	On-site generation of renewable sources of electricity where economical	Number of facilities with on-site renewable energy generation system	To have the major water and sewer treatment plants with onsite renewables	Council does not have any renewable energy sources
Financial sustain	ability			
Revenue meets on-going commitments	Full cost recovery	Economic rate of return	≥0%	Water supply: 4.34% in 2024/25 Sewerage: 1.73% in 2024/25
		OMA/rates revenue	≤85%	Water supply: 82% in 2024/25 Sewerage: 90% in 2024/25
		Return on investment (ROI)	≥ 2%	Water supply: 4.34% in 20245/25 Sewerage: 2.08% in 2024/25
		Accounting surplus/deficient	Maintain surplus	Water supply: \$1,723,000 in 2024/25 Sewerage: \$681,000 in 2024/25



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
	Non-residential revenue reflects community	Residential and non- residential revenue split	Revenue split is reflective of usage to within +/- 2%	Water supply residential - \$2,703,000
	benefits			Water supply non- residential - \$675,000
				Sewerage residential - \$1,372,000
				Sewerage non- residential - \$493,000
	Supports Council's hardship policy	Level of pensioner rebate per property	Standard pensioner rebate	Pensioners can apply for rebate if eligible
Efficient operation delivering stable price paths	Evidence based robust total asset management plan (TAMP), financial plan (FP) and business continuity plan (e.g. Drought Contingency and Emergency Response Plan – DCERP)	TAMP, FP & DCERP – annually reviewed & regularly audited	Compliant current TAMP, FP & DCERP	Council advised that the TAMP, FP and DCERP are annually reviewed.
Pricing signal for sewerage services is fair and strong to encourage efficient use of services	Water and sewer tariff is compliant with best-practice guidelines	Percentage compliance with best-practice pricing guidelines	100% compliance	Tariff structure to be reviewed following completion of the strategy
	All users/customer properties with a sewer connection are charged	Percentage of users/customer properties with a sewer connection charged	95% Compliance	All users/customers (including unmetered users, such as parks and gardens, standpipe usage) are metered and charged
Developer charges that are competitive to attract economic growth	Common LGA wide OR individual town/system specific sewer developer charges that is compliant with guideline	Percentage compliance with developer charges guidelines	100%	Compliant with guideline
	Full cost or cross- subsidised as per guideline	Extent of community support of cross subsidy OR full cost	100%	In line with policy



Objective	Service Standard (Design Basis)	Performance Indicator	Target	Performance
Asset manageme	ent			
Maintain up-to- date asset register	Asset register compliant with Accounting standard ⁴	Extent of assets captured in the asset register	95%	Council's assets are captured and updated in the asset registers
		Accuracy of assets in the management system and what is in-ground	e.g. 90%	The full water and sewer networks are captured in the GIS System the accuracy of this is checked every two years. Sewer main CCTV condition auditing is carried out on a regular basis
	Asset management system drives service delivery	Percentage usage in work scheduling	100% Compliance with System	Council continues to schedule works based on asset management system

4. Operating Environment Compliance

Narromine Shire Council operates one water supply and four sewerage schemes under the Local Government Act (1993). The Local Government Act and a number of other legislations influence the way in which Council can provide the urban water and wastewater services and have specific implications for the operation of the schemes. Table 4-1 provides the details of the status of compliance with the legislative and regulatory requirements by the Council.

Table 4-1: Operating environment compliance

Key legislative framework and their main purposes	Narromine Shire Council's current performance	
Local Government Act (1993)		
This Act aims to provide the legal framework for an effective, efficient, environmentally responsible, and open system of Local Government including the provision, management and operation of water supply and sewerage works and facilities. It covers:	Council operates three water supply schemes and two sewerage schemes under the authority of the Local Government Act 1993.	
Section 60 (S60) – Ministerial approval required for certain council works A council must not, except in accordance with the approval of the Minister for Primary Industries, do any of the following: b) as to water treatment works – construct or extend any such works, c) as to sewage – provide for sewage from its area to be discharged, treated or supplied to any person	There is Section 60 approval for the Narromine Temporary WTP and the Tomingley WTP. Narromine STP Constructed in 2004-2005 has a section 60 approval. Trangie STP was constructed prior to 1993, hence a Section 60 approval is not required.	
Section 61 – Ministerial directions concerning certain works	Council has received Section 61 inspections for: Narromine WTP.	



Key legislative framework and their main purposes	Narromine Shire Council's current performance			
The Minister for Primary Industries or a person authorised by the Minister may direct a council to take such measures as are specified in the direction to ensure the proper safety, maintenance and working of any of the following works: b) water treatment works, c) sewage treatment works.	Tomingley WTP. Trangie STP. Council advised that there have been no Section 61 inspections for the Narromine STP on record.			
Section 64 – Construction of works for developers	Council has a 2020 Development			
As a precondition to granting a certificate of compliance for development, a water supply authority may, by notice in writing served on the applicant, require the applicant to do either or both of the following: a) to pay a specified amount to the water supply authority by way of contribution towards the cost of such water management works as are specified in the notice, being	Council has a 2020 Development Servicing Plan (DSP).			
existing works or projected works, or both,to construct water management works to serve the development.				
Section 68 – What activities require the approval of the council? A person may carry out operation of a system of sewage management (meaning to hold or process, or re-use or discharge, sewage or by-products of sewage) only with the prior approval of the council. Council can manage the approval process under their liquid trade waste policy.	Council has a Liquid Trade Waste Policy adopted on 22 June 2022. The review date is set at a frequency of 4 years.			
Section 382 – Insurance against liability A Council must make arrangements for its adequate insurance against public liability and professional liability.	Council has insurance against public liability, professional indemnity, property protection, motor vehicle insurance and workers compensation under Section 382 of the Act.			
Environmental Planning and Assessment Act (1979) (including	ng the EPA Regulation 2000)			
This Act aims to encourage proper management of resources, the orderly use of land, the provision of services, and the protection of the environment. It covers: Local Environmental Plans (LEP) Environmental Impact Statement (EIS) Reviews of Environmental Factors (REF)	Council advised these legislative and regulatory requirements are complied with at all times. There have been no recorded breaches of the Act in relation to Councils Wastewater systems.			
Public Health Act (2010)				
This Act aims to promote, protect and improve public health; by providing safe drinking water to the community. Section 25 – a supplier of drinking water must have a quality assurance program in place and must comply with its requirements. A Drinking Water Management System (DWMS) satisfies this requirement. The requirements of the DWMS are as follows: Produce an annual report to be made available to consumers, regulatory authorities and stakeholders	Council reviewed its DWMS in November 2023 with major changes being made including the inclusion of the Tomingley Drinking Water System. Annual reports are supplied to the NSW Department of Health and DCCEEW at the conclusion of every financial year.			



Key legislative framework and their main purposes	Narromine Shire Council's current performance
 The DWMS will be internally reviewed. The review will assess Council's performance in relation to: CCPs and their exceedances Improvement Plan Record keeping NSW Health Database performance 	
Water Management Act (2000) and Water Act (1912)	
This Act promotes the sharing of responsibility for the sustainable and efficient use of water between the NSW Government and water users and provides a legal basis to manage NSW water planning, allocation of water resources and water access entitlements.	Council has a water access licence (WAL) for each water supply scheme.
Protection of the Environment Operations Act (1997)	
Section 43 – Environment protection licences Environment protection licences (EPLs) may be issued to authorise the carrying out of scheduled activities at any premises, as required under section 48. This clause applies to sewage treatment, meaning the operation of sewage treatment systems that involve the discharge or likely discharge of wastes or by-products to land or waters.	Council holds an EPL for the Narromine STP. Trangie STP does not have an EPL as it is not a scheduled activity under Section 48.
Work Health and Safety Act 2011 and WHS Regulation 2017	
To provide for a balanced and nationally consistent framework to secure the health and safety of workers and workplaces. Under the Act, for Workplace Management, Council has a duty to: Identify hazards Manage risks to health and safety Implement, maintain and review risk control measures.	Council has a Work Health and Safety Policy adopted in 2023. The policy states that the Policy will be reviewed every four years of its adopted or latest amendment.
Fluoridation of Public Water Supplies Act (1957)	
This Act covers the addition of fluoride to public water supply under the NSW Fluoridation Code of Practice.	The Narromine and Trangie drinking water supply schemes are not fluoridated
Dam Safety Act 2015	
Under this Act, the owner of any dam listed as a prescribed dam must meet the requirements of the NSW Dams Safety Committee (DSC).	Not applicable as Council does not own any prescribed dams
The DSC assigns dams a consequence category relative to their dam failure consequence, and this determines the level of reporting and type of actions required by the dam owner as part of their Safety Management System (SMS).	
Commonwealth Water Act 2007 and Water Regulations 2008	
Part 7 of the Act – Water information The Bureau of Meteorology is required to collect, hold, manage, interpret and disseminate Australia's water information.	Narromine Shire Council are not listed as "persons" who must give information to the Bureau under the regulations.



Key legislative framework and their main purposes	Narromine Shire Council's current performance
Section 126 of the Act places an obligation on persons specified in the Regulations to give certain water information to the Bureau.	Council does though supply performance monitoring data to the BOM every year via the NSW
Part 7 of the Regulations defines who must give specified water information to the Bureau, and the time and format in which it must be given. The Regulations individually name over 200 organisations which are required to give the Bureau specified water information that is in their possession, custody or control.	Performance Monitoring Report

5. Population assessment and projections

In 2022 due to the size of upcoming projects and population in NSW shifting to Narromine Shire, the growth in Narromine was forecast to be a total of 450 people through to 2032. This utilized a base population of 6448 across the Narromine Shire (2021).

Several of the projects that were factored into this forecast will not proceed and large projects such as those with the Inland Rail are delayed. Projects within the Renewable Energy Zone were not factored at all. The Department of Planning updated their population projection for the Narromine Shire to see growth of 200 people through to 2041. The Department of Planning in conjunction with the Renewable Energy Zone development have now further updated their projections based on the REZ projects and available information regarding other large projects such as the Inland Rail and Tomingley Gold development. The predictions made as a result of combining these projects see an overall population increase of approximately 450 people through to 2032. This is shown in Figure 5-1.

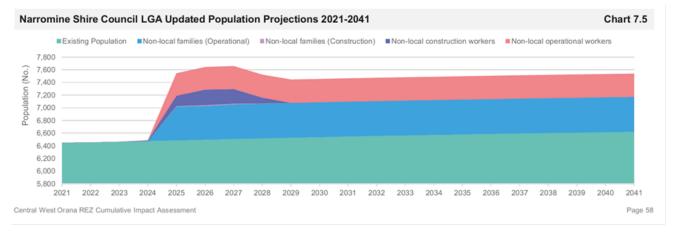


Figure 5-1: Department of Planning population projections for Narromine Shire Council LGA

It should be noted that the prediction during the construction phase of these projects is for a total of 1200 additional people to be housed in the Shire for approximately 4 years of 'peak' construction.

All projections are undertaken to allow for future planning and are subject to change. Overall, the changes to the number, type and timing of projects have not significantly altered NSC's population projected to 2032 and beyond.

For the purpose of planning, Council have nominated a growth in the Narromine population to be 450 people with an expected further surge of at least 1000 people during construction. The impact of those housed during the construction phase of the projects on town services in Narromine will vary.

Inland Rail have recently advised that they are considering two potential sites within the town boundaries of Narromine for a worker accommodation centre. This will require the provision of water and sewage services for up to 500 rooms. It is their current projection that the centre will be in place for between 2 to 3 years. It is also anticipated that a number of people working on the construction of the Renewable Energy Zone (REZ) project will be looking to reside in Narromine. This along with the projected increase in housing costs in Dubbo are expected to further increase growth within the Narromine LGA.



For this strategic planning, the following growth was considered for the service areas over the 30-year planning horizon:

- 543 people in Narromine
- Two lots per year in Trangie
- No growth in Tomingley

The spatial distribution of the future growth potential in Narromine is presented in Figure 5-2.

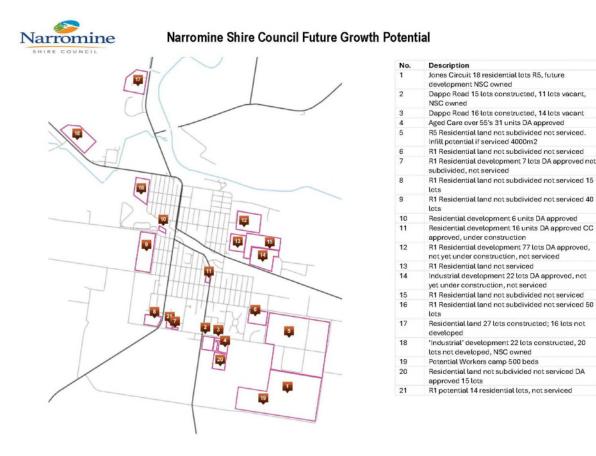


Figure 5-2: Spatial distribution of future growth in Narromine

The forecast serviced population for the water supply and sewer serviced areas are presented in Table 5-1 and Table 5-2.

Table 5-1: Projected water supply service area population

	2022	2027	2032	2037	2042	2047	2052	
Projected water supply serviced population								
Narromine	3,214	3,482	3,698	3,749	3,757	3,757	3,757	
Trangie	788	801	823	841	841	841	841	



Table 5-2: Projected sewer service area population

Projected sewer serviced population								
Narromine	3,051	3,401	3,651	3,901	3,956	3,956	3,956	
Trangie	710	723	745	762	762	762	762	

6. Narromine raw water supply

The Narromine Raw water supply scheme provided raw untreated surface water to Narromine for the irrigation of public open spaces, with the system being confined to the northern side of Narromine. The system has been temporarily abandoned due to the pumping and access infrastructure requiring replacement for which funding is not currently available. The raw water system served three major sporting ovals (Payten, Dundas and Rotary Parks) and also a roofed elevated concrete tower reservoir which supplied a raw water standpipe filling station. Raw water is sourced from the Macquarie River and is supplied via the redundant town water treatment plant's river pump station. A flow schematic of the water supply scheme is shown in Figure 6-1.

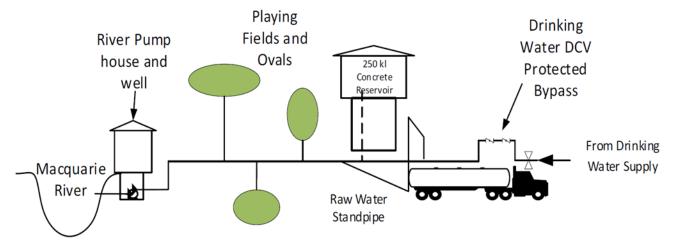


Figure 6-1: Schematic diagram of Narromine raw water supply system

Council possesses a water access license (WAL) for this scheme. Details of this license are provided in Table 6-1.

Table 6-1: Water cess license for raw water supply scheme

WAL license number	WAL10594
Category [Subcategory]	General security
Entitlement	220 ML/year
Water Source	Lower Macquarie Zone 1 Groundwater Source
Water Sharing Plan (WSP)	Macquarie and Cudgegong Regulated Rivers Water Source.

The following are to be noted regarding the raw water scheme:

- The system did not function during the last drought due to the license allocation being reduced to 'zero'
- The river pumping station is out of service due to major WHS issues and requiring significant upgrades.
- The scheme's infrastructure (pumping, storage and mains) components are in very poor condition and will require significant investment before being able to be safely used again.



Council has also advised that there is no customer meter data nor production data available for the Narromine Raw WSS, as the raw water consumption is not recorded. Therefore, water demand analysis for this scheme could not be performed.

7. Narromine potable water supply scheme

The Narromine Potable Water Supply Scheme (WSS) provides potable water to the town of Narromine. The water is sourced from five groundwater bores. Figure 7-1 shows the schematic diagram of the Narromine Potable WSS.

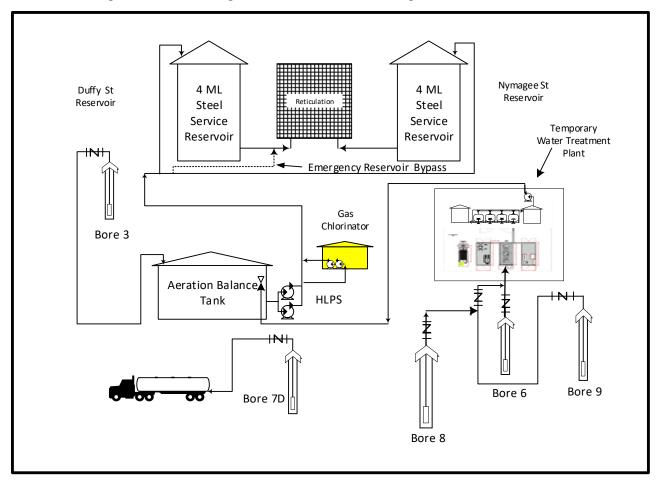


Figure 7-1: Schematic diagram – Narromine potable water supply

7.1 Water source

The drinking water supply draws raw water from five active ground water bores in the upper and lower Pleistocene Quaternary and Tertiary Aquifers connected to the Macquarie River between the City of Dubbo and Narromine. The main sources of water are the five bores (3, 6, 7, 8 and 9) located South of the Narromine township on the McGrane Way. One of the five bores No3, pumps directly into the aeration tank. The remaining Bores 6,7, 8 and 9 have water quality that does not meet ADWG with iron and manganese levels above ADWG aesthetic limits. A temporary Section 60 approved WTP was built in 2020 to treat Bores 6, 8 and 9 to meet the ADWG and NSW Health regulation limits.

The bores currently active for town water supply are listed in Table 7-1. The locations of the listed bores are also provided in Figure 7-2.

Table 7-1: Narromine water supply – bore details



Bore ID (GW number)	Make - Serial	Install year	Flow rate (L/s)	Head (m)	Flow rate according to 2022 hydrogeological report (L/s)
3 (GW021185)	FPS 140SF	2018	21	N/A	21.0
6 (GW042924)	Aquawest - FPS- 140FS8-4E	2016	36.0	55.0	-36
7 (GW273272)	Grundfos SP30-6	2013	-17	-	17.0
8D (GW030746) t	Aquawest - FPS- 140FS8-3B/L/N	2020	36.0	56.0	36.0
9 (GW062210)	Aquawest - FPS-110- FS-5I	2015	31.8	70.0	36

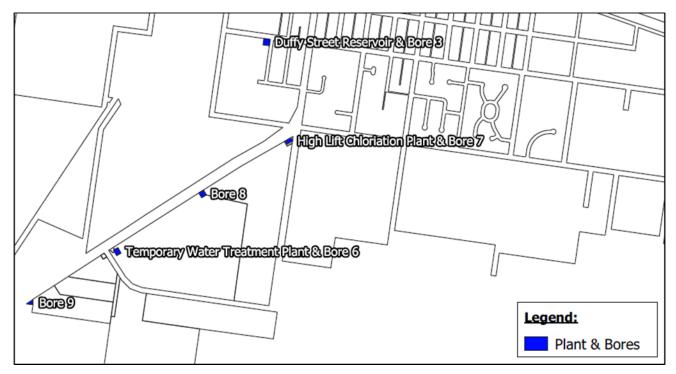


Figure 7-2: Narromine water supply – bore locations

7.2 Raw water quality

The raw water quality results from the bores as documented in the 2019 PWA Narromine Scoping Study are summarised below:

Bores 6, 7,8 and 9

During the testing period, the raw water quality of the existing bores generally complied with the health-based limits of the Australian Drinking Water Guidelines (ADWG), with a few exceedances in hardness, turbidity and corrosiveness.

- Turbidity Bores 6 and 7 have shown regular turbidity levels above 10 NTU and levels as high as 40 NTU after aeration. For effective disinfection, the turbidity in the water should be below 1 NTU.
- Colour Colour levels were much higher than the generally acceptable value of 15 HU which were seen in some of the bore samples after aeration.



- Iron Bores 6 and 7 had an iron concentration in the order of 1.5 and 2.5 mg/L respectively, which exceeds the Australian Drinking Water Guidelines (ADWG) taste/aesthetic threshold of 0.3 mg/L. Bore 9 had acceptable levels of iron concentration for most of the time except for a few occasions where the value is in the order of 0.4 mg/L.
- Manganese all three new bores showed high manganese concentrations. Bore 7 had the highest concentration mostly ranging between 0.7 mg/L and 2.0 mg/L. Bore 9 had the lowest concentration with some samples having higher manganese levels of around 0.5 mg/L. These three bores all exceeded the ADWG taste/aesthetic threshold of 0.1 mg/L.
- Hardness all three new bores showed high hardness levels ranging between 200 and 350 mg/L as CaCO3.
- Corrosiveness the water from all three new bores showed severe corrosive nature with CCPP (calcium carbonate precipitation potential) values in the order of -35 mg/L compared to a preferred value being closer to zero.

It is important to note that the characteristics of the Narromine Raw Water Supply have altered in the five years since the completion of the Scoping Study. These are currently being reassessed and redocumented as part of The Concept Design Report for a Permanent Water Treatment Plant.

7.3 Current water treatment

Treatment occurs in two stages, Bores 8 and 9 are initially treated at the Temporary Iron & Manganese Removal Plant (which will be referred as the "Temporary WTP") located at bores 6. Treated water is transferred to the Aeration Balance Tank and chlorination facilities for disinfection. Extraction from Bore 3 is also pumped to and blended at the Aeration Balance Tank and chlorinated before distribution. The Narromine Temporary WTP can provide up to 2.5 ML/day of treated drinking water. Bore 3 can supply up to 1 ML/day The Temporary WTP process is shown in Figure 7-3.

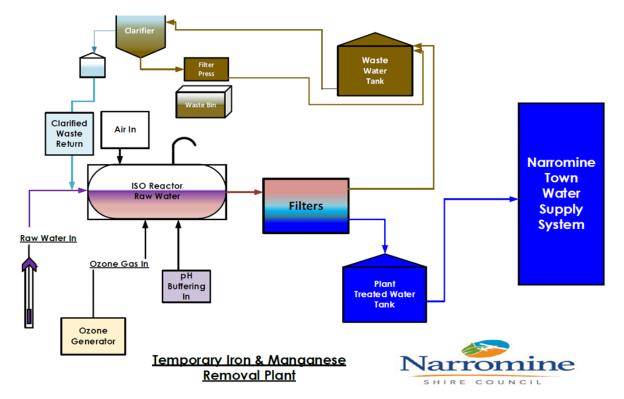


Figure 7-3: Narromine water supply scheme – temporary treatment plant



7.4 Treated water quality

The treated water quality meets the Australian Drinking Water Guidelines, and no Critical Control Point exceedances have been reported.

7.5 Distribution system

Following treatment, potable water is pumped by duty/standby high lift pumps and disinfected with gaseous chlorine. Treated water is stored in two separate 4.0 ML steel reservoirs, one on Nymagee Street and the other on Duffy Street. Reservoirs in the distribution system are interconnected via the rising main, with flows to Duffy Street reservoir restricted to manage the flow to both reservoirs. Reticulation booster systems were constructed in 2023 and 2024, to maintain head in the mains at the same level as a full Reservoir. The distribution system is shown in Figure 7-4.

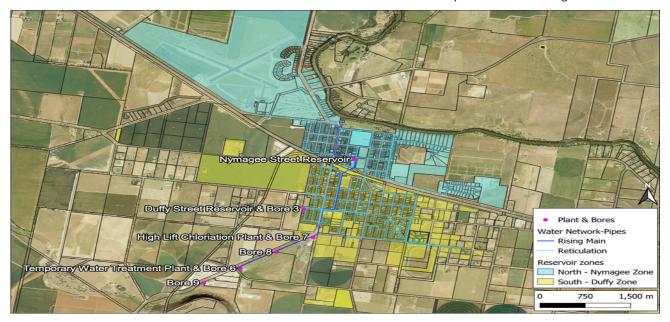


Figure 7-4: Narromine water supply – distribution system

Properties north of the rail line are serviced by the Nymagee Street reservoir, and properties south of the rail line are serviced by the Duffy Street reservoir. The 'Nymagee Reservoir Zone' is referred to as 'North reservoir zone', and the 'Duffy Reservoir Zone' is referred to as 'South reservoir zone'.

7.6 Non-revenue and unaccounted for water

The historical water production data and water usage data (from customer billing data and standpipe usage data) was used to undertake a water balance for the Narromine Potable WSS. The water balance used is the standard developed by the International Water Association (IWA) Water Loss Task Force. The average water balance for 2018/2019 and 2019/2020 is shown graphically in **Error! Reference source not found.**

The infrastructure leakage index (ILI) is an indicator of how effectively real losses in the distribution system are being managed at the current operating pressures. It is the preferred indicator for state and national comparisons and has been adopted by the International Water Association as the preferred indicator for international comparisons (National Water Commission, 2014) (LIBRARY, n.d.). The best performing LWUs in Australia have an ILI less than 1.5.

From 2021 through to 2024 NSC has staged the introduction of a smart water meter and a water loss management program. The 2024-2025 water balance returned an Infrastructure Leakage Index (ILI) of 1.1 for the year and is shown in Figure 7-6.



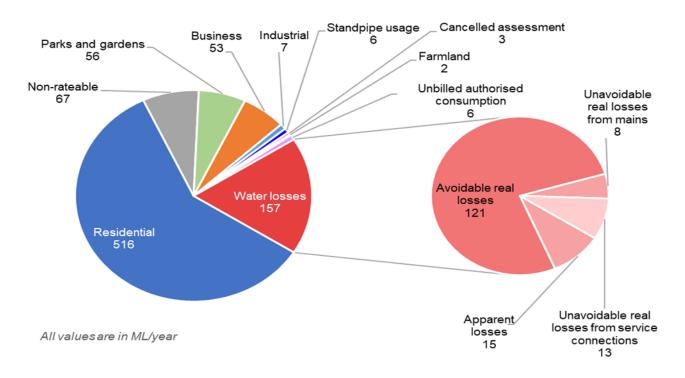


Figure 7-5: Narromine potable water supply - water balance - Prior to Water Loss Management Project

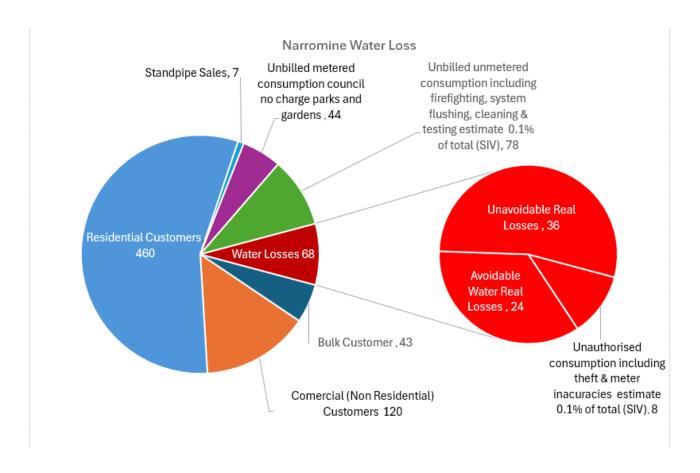


Figure 7-6: Narromine potable water supply - water balance 2024-2025 During the Water Loss Management Project



7.7 Water projections

Projections of the average year demand are used for revenue planning, unrestricted dry year demand for sizing of headworks, and peak day production for sizing of water treatment works, reservoirs and pumping facilities. These projections are provided in Table 7-2, Table 7-3 and Table 7-4.

Table 7-2: Narromine water supply scheme – Average year demand projections ML/year

	2022	2027	2032	2037	2042	2047	2052
North reservoir zone (Nymagee Street Reservoir)							
Residential	158	180	215	222	222	222	222
Non-residential	142	155	157	158	160	160	160
Subtotal	301	335	371	380	382	382	382
South reservoir zone (Duffy S	treet Rese	rvoir)					
Residential	298	327	335	370	379	379	379
Non-residential	64	64	64	64	64	64	64
Subtotal	362	391	399	434	443	443	443
Narromine Scheme							
Narromine Total Demand	662	726	770	814	825	825	825

Table 7-3: Narromine water supply scheme – Unrestricted dry year demand projections

	2022	2027	2032	2037	2042	2047	2052
Water extraction from borefield	1,014	1,119	1,191	1,263	1,280	1,280	1,280

Table 7-4: Narromine water supply scheme – Peak day demand projections

	2022	2027	2032	2037	2042	2047	2052
North reservoir zone (Nymagee Street Reservoir)							
Residential	1.1	1.2	1.4	1.5	1.5	1.5	1.5
Non-residential	1.2	1.3	1.3	1.3	1.3	1.3	1.3
Subtotal	2.2	2.5	2.7	2.8	2.8	2.8	2.8
South reservoir zone (Duffy S	treet Rese	rvoir)					
Residential	1.9	2.1	2.2	2.4	2.4	2.4	2.4
Non-residential	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Subtotal	2.4	2.6	2.6	2.9	2.9	2.9	2.9
Narromine Scheme							
Losses on peak day	1.4	1.6	1.7	1.8	1.8	1.8	1.8
Peak day production	6.1	6.6	7.0	7.4	7.5	7.5	7.5



7.8 Water security assessment

The water security assessment for a water supply scheme considers the following:

- That Council's Water Access Licence (WAL) entitlement is sufficient to supply the 30-year forecast unrestricted annual demand
- That the secure yield of groundwater is sufficient to supply the 30-year forecast unrestricted annual demand and provide drought resilience

Entitlement

Council holds a Local Water Utility Water Access Licenses (WAL11603), issued under the Water Management Act 2000, which relates to the water supply to Narromine. The following applies to the WAL. Counil's WAL entitlement is sufficient to supply the 30-year forecast water requirements for the town of Narromine.

Table 7-5: Narromine water supply scheme – Water Access License

WAL 11603	
Category [Subcategory]	Local Water Utility
Entitlement	2,000 ML/year
Water Source	Lower Macquarie Zone 1 Groundwater Source
Water Sharing Plan (WSP)	Macquarie-Castlereagh Groundwater Sources 2020

Yield

A groundwater investigation, which included modelling, was undertaken to assess the potential to increase extraction from the aquifer to meet the forecast water requirements. The modelling results show that the Narromine bore field can meet average water demand until 2052 but may fall short of the 1,250 ML /year demand after 2033. The hydrogeological study revealed that there is still major uncertainty beyond 2033. However, there is little opportunity to construct new bores near the town.

Water security options assessment

The following options were identified and assessed to improve the security of the Narromine water supply.

- 1. Continue to use groundwater bores and identify sites for additional bore to meet demand.
- 2. Utilise the existing bores and supplement with water from Macquarie River. A raw water pump station would need to be constructed on the site of the disused river pump station utilising the wet well with new pumps, intake, and building. Construction of a new pipeline connecting the river pump station to the existing water treatment plant. There are three possible options for the pipeline route.
- 3. Supply treated drinking water from Dubbo Regional Council to Nymagee Street Reservoir. There are two possible options for the pipeline route.

A triple bottom line assessment identified Option 2 as the preferred option with Option 1 as the second ranked option. Council decided to take Options 1 and 2 forward for the scenario analysis.

Council's preferred option is to continue the use of groundwater bores and add River supply to preserve groundwater resources for when needed by obtaining a surface water license to extract from the Macquarie River and construct a pipeline to the water treatment plant.



7.9 Water quality assessment

Issue

There is a very high inherent source water pathogen risk due to disused uncapped bores in close proximity, failed stock and domestic bores, along with nearby agricultural and landfill activities. There is also a very high residual risk of chlorine-resistant pathogens as there are no effective treatment barriers for chorine resistant pathogens at the treatment plant.

Water treatment options assessment

The following options were assessed to improve Narromine's potable water quality and address the high risk of chlorine resistant pathogens.

- 1. Conventional treatment with sedimentation lagoons
- Conventional treatment with sedimentation tank and sludge lagoons
- 3. Conventional treatment with sedimentation tank and mechanical sludge dewatering
- 4. Upgrade or replace the existing temporary plant at the same site.

A triple bottom line assessment identified Option 4 as the preferred option with Option 3 as the second ranked option. Council decided to take Options 3 and 4 forward for the scenario analysis.

7.10 System capacity assessment

Issues

The infrastructure leakage index (ILI) for the Narromine Potable WSS was 6.7, indicating a high water loss. Actions taken since 2021 have seen the index fall from this high to a level of 1.1.

The Narromine system capacity needs augmentation to maintain the supply pressure of 20 metres. The system is especially vulnerable if there is a failure of the booster pumps.

System performance improvement

The following actions are being continued to improve system performance and reduce losses

- Continue to implement the current community education program on water saving measures.
- Continue to implement the water loss management plan as designed.
- Consider limited time rebates for replacement of water fittings and appliances (including evaporative coolers)

Water treatment plant sizing

A hydraulic analysis was undertaken in 2025 to assess the system capacity and 'right size' the new water treatment plant. Results of the analysis are summarised below:

WTP production of 92 L/s can achieve the pressure requirements with and without booster pumping, with
no additional buffer storage required. The reservoir levels recover well at the end of the peak period. This
production rate also allows for a 2-hour downtime during the peak period. Accordingly, the daily
throughput of the plant is 7.3ML. However, for this constant production rate, a balancing storage of 712kL
is required for a minimum plant run time of 3 hours during off-peak demand periods.



- WTP production of 88 L/s can achieve the pressure requirements with booster pumping. The reservoir levels recover well at the end of the peak period. However, at this production rate the plant would be running continuously for 2 days during the peak period. Accordingly, the daily throughput of the plant is 7.6ML. For this constant production rate, a balancing storage of 670kL is required for a minimum plant run time of 3 hours during off-peak demand periods.
- WTP production of 85 L/s can achieve the pressure requirements with booster pumping. The reservoir levels recover well at the end of the peak period. However, at this production rate the plant would be running continuously for 4 days during the peak period. To provide a downtime of 2-hours per day, a buffer storage of 800kL would be required. This could also double up as a balancing storage for a minimum plant run time of 3 hours during the off-peak demand periods. Accordingly, the daily throughput of the plant, with the buffer storage, is 6.7ML.

System resilience assessment

A resilience assessment was undertaken to assess whether continuity of supply can be maintained during a 6-hour interruption. The assessment was done for supply of Average Day and Peak Day Demands. The results are presented in Table 7-6.

Table 7-6: Resilience assessment – continuity of supply during interruption

No.	Reservoir capacity	Demand scenario	Drawdown to (%)	Supply pressure (m)
1	Current 8 ML with booster	2052 PDD	47 to 51 %	20 to 30
2	Current 8 ML without booster	2052 PDD	64 to 65 %	13 to 29
3	Current 8 ML without booster	2052 ADD	88 to100 %	20 to 30
4	Current 8 + 2 = 10 ML w/o booster	2052 PDD	69 to 76 %	15 to 29
5	Current 8 + 4 = 12 ML w/o booster	2052 PDD	73 to 77 %	16 to 29
6	Current 8 + 8 = 16ML w/o booster	2052 PDD	78 to 80 %	17 to 29

During a supply interruption of 6 hours, to maintain the minimum service level pressure of 18m without booster pumping while supplying the peak day demand, an additional 8ML reservoir capacity would be required. If the booster pumps could continue operating using back-up power, then the current storages could be drawn down to 50% and this would be sufficient to maintain supply for 6 hours with no additional storage.

Additional storage required to provide system resilience can be added to the clear water tank storage.

Clear water tank sizing

The clear water tank sizing for each of the assessed WTP production rates is provided in Table 7-7. The control volume is not included as this is dependent on the type of pump selected. This can be assessed and included in the Concept/Detail Design phase.

Table 7-7: Narromine WTP clear water tank sizing

	WTP production					
Clea Water Tank function	92L/s (with and without boost)	88L/s (with boost)	85L/s (with boost)			
Chlorine contact (30 minutes)	166 kL	158 kL	153 kL			
Balancing storage for 3-hour plant run time	712 kL	670 kL	800 kL			



	WTP production					
Clea Water Tank function	92L/s (with and without boost)	88L/s (with boost)	85L/s (with boost)			
Buffer storage	Nil	Nil				
Provide system resilience (with no booster pumps)	4,000	4,000	4,000			
Total clear water tank volume	4,880 kL	4,830 kL	4,953 kL			

The 30-minute chlorine contact tank volume excludes the baffling factor which depends on the tank design. A simple baffling factor of 0.7 which includes an inlet and out baffle will require a 30% increase in contact tank volume.

The final assessment of this study confirms that the recommended sizing of the Water Treatment Plant of 7.5ML/day with a Clear Water Tank of 5ML is the correct sizing option for optimal operations.

8. Trangie water supply scheme

The Trangie WSS provides potable water to the town of Trangie. The water is sourced from three groundwater bores. Bore 4 is no longer used. This is due to Natural Resources Access Regulator (NRAR) compliance issues and the fact that it has such a poor yield by comparison to the other three bores rendering it uneconomical to operate. A schematic diagram of the scheme is shown in Figure 8-1.

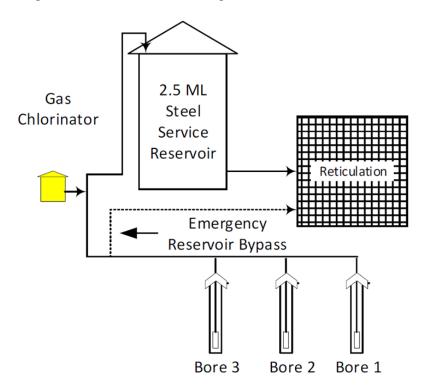


Figure 8-1: Trangie WSS – schematic diagram



8.1 Water source

The Trangie WSS draws its raw water from bores located within the Lower Macquarie Zone 3 Aquifer system. The locations of the three active and 1 inactive bore are provided in Figure 8-2.



Figure 8-2: Trangie water supply – bore locations

8.2 Water treatment

Water from the bore field is chlorinated prior to being stored in a 2.5ML storage reservoir no other means of filtration treatment or correction of aesthetic issues (high sodium content) can be carried out as the system has no other treatment units beyond disinfection available.

8.3 Distribution system

From the storage reservoir water is gravity fed to the customers in Trangie. The Trangie distribution system consists of a single district metering area and is shown in Figure 8-3.

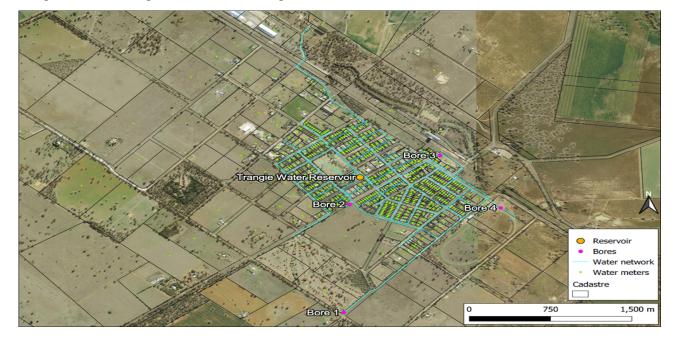


Figure 8-3: Trangie water supply – distribution system



The historical raw water volume extracted from the bore field is measured in accordance with NRAR requirements and is accounted for to water NSW via its own telemetry network. The treated water volume and metered customer usage returned an average water balance for 2018/2019 and 2019/2020 as shown above graphically in figure 8-4.

This water balance broadly highlights the amount of authorised consumption from which revenue is generated and quantifies the non-revenue water (NRW).

8.4 Non-revenue and unaccounted for water

The Trangie water supply scheme had an ILI (current annual real losses / unavoidable real losses) of 12.6 (Figure 8-4) which placed it in the highest leakage category, which indicated there was significant potential for Council to reduce leakage. Historical average unit water loss (both apparent and real) was estimated at 24% and around 455 L/connection/day, which was significantly higher than the state median of 92 L/connection/day.

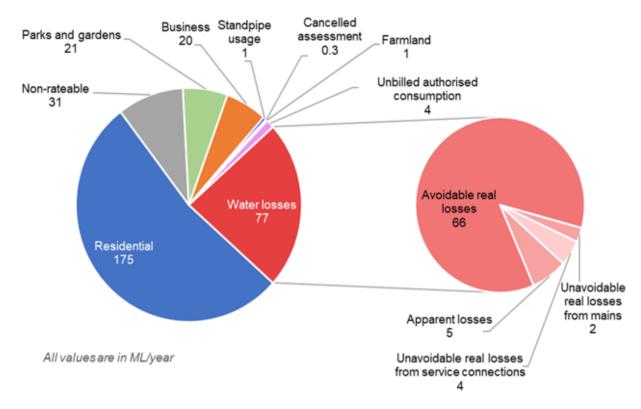


Figure 8-4: Trangie water supply scheme – water balance 2018 -2020

Council has implemented the same strategy for system performance improvement as that carried out on the Narromine water supply scheme. Starting from 2021 through to 2024 NSC staged the introduction of a smart water meters roll out for Trangie consumers and instituted a water loss management program. This was to deal with the high levels of water losses discussed above. The program has been successful in delivering a significant reduction to the leakage rates as shown below in Figure 8-5.



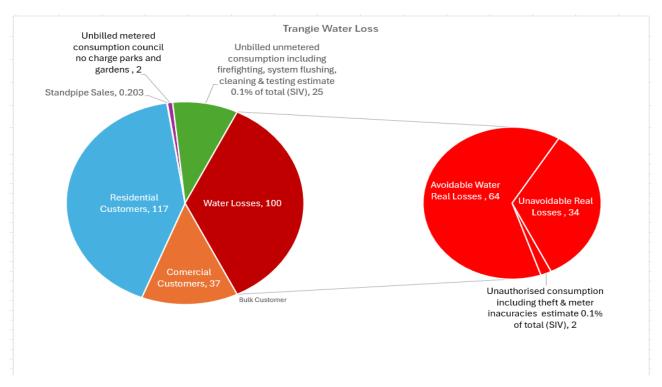


Figure 8-5: Trangie water supply scheme – water balance 2024-2025

8.5 Water projections

Projections for average year, unrestricted dry year and peak day demands are provided in Table 8-1, Table 8-2 and Table 8-3.

Table 8-1: Trangie water supply scheme – Average year demand projections

	2022	2027	2032	2037	2042	2047	2052
Residential	150	152	156	160	160	160	160
Non-residential	64	64	64	64	64	64	64
Total Demand	214	216	220	224	224	224	224

Table 8-2: Trangie water supply scheme – Unrestricted dry year demand projections

	2022	2027	2032	2037	2042	2047	2052
Water extraction from borefield	352	354	360	364	364	364	364

Table 8-3: Trangie water supply scheme – Peak day demand projections

	2022	2027	2032	2037	2042	2047	2052
Residential	1.4	1.5	1.5	1.5	1.5	1.5	1.5
Non-residential	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Losses on peak day	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Peak day production	2.4	2.4	2.5	2.5	2.5	2.5	2.5



8.6 Water security assessment

Entitlement

Council's Local Water Utility Water Access Licenses (WAL), issued under the Water Management Act 2000 for Trangie is provided in Table 8-4. The 1 in 100-year unrestricted future extraction for Trangie water supply is expected to exceed Council's entitlement. A reduction in system leakage could keep the unrestricted dry year consumption below the WAL entitlement. If the extraction is still forecast to exceed the WAL Council could apply for an increase in WAL to cater for population growth.

Table 8-4: Trangie water supply scheme – Water Access License

WAL license number	WAL11645
Category [Subcategory]	Local Water Utility
Entitlement	350 ML/year
Water Source	Lower Macquarie Zone 3 Groundwater Source
Water Sharing Plan (WSP)	Macquarie-Castlereagh Groundwater Sources 2020

9. Tomingley water supply scheme

The Tomingley water supply scheme (WSS) supplies potable water to the town of Tomingley. The Tomingley WSS was a non-potable water supply until the commissioning of the new water treatment plant (WTP) in April 2022. Figure 9-1 shows the schematic diagram of the Tomingley WSS.

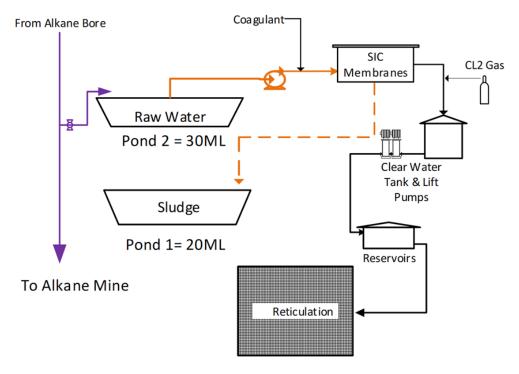


Figure 9-1: Tomingley water supply scheme – schematic diagram



9.1 Water source

Previously, raw water was sourced from off-channel storages in Gundong Creek when flowing. These off-channel storages have not been a reliable supply of water and documented as being contaminated with pesticides. In 2018 a pipeline that supplies water to a nearby mine (ALKANE Resources Mine site) at Tomingley was extended and connected to the two raw water ground storage ponds at the water treatment plant. This pipeline runs from a bore near Narromine to the mine near Tomingley. Council advised that the mine provides approximately 10 ML/year to the Tomingley WSS.

The current water supply agreement for Tomingley is contained in an existing voluntary planning agreement with Tomingley Gold Operations. Should this agreement cease an alternate water source needs to be found.

9.2 Water treatment

Raw water from Pond 2 is pumped and dosed with a coagulant to the silicon carbide (SIC) membranes for filtration. Filtered water is treated with UV and chlorinated with chlorine gas and stored in the clear water tank from where it is pumped to the town reservoir for distribution to the township. Backwash water from the SIC membranes is transferred to Pond 1 which has been re-purposed as a sludge lagoon.

9.3 Distribution system

Figure 9-2 shows an aerial view of the Tomingley village, and the location of customer meters.



Figure 9-2: Tomingley water supply scheme – distribution system

9.4 Non-revenue and unaccounted for water

The volume of water supplied into the Tomingley WSS is now (since 2024-2025) fully metered and recorded smart water meters are now installed on every customer service. Magflow master meters are installed at the reservoir and water treatment plant these meters enable a full water balance to be performed. The 2024-2025 Tomingley water balance shows an ILI of 0.1 this is an outstanding result and is due to a new reticulation system and water services plus the installation of smart water meters.



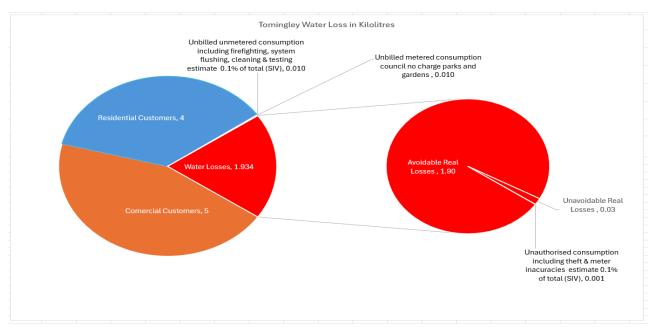


Figure 9-3: Tomingley Water Supply Scheme water balance 2024-2025

9.5 Water projections

No growth has been nominated for Tomingley hence the current demands, presented in Table 9-1, are expected to remain stable.

Table 9-1: Tomingley water supply scheme – Estimated customer demands

User class	Average Year Demand (ML/year)	Dry Year Demand (ML/year)	Average Day (kL/day)	Peak Day (kL/day)
Residential*	2.3	3.0	6.3	20.7
Business	4.18	4.09	11.2	13.7
Non-Rateable	0.06	0.09	0.2	0.3
Farmland	0.18	0.25	0.7	0.8
Total*	6.7	7.4	18.4	35.5

9.6 Water system issues

No issues were identified in the Tomingley water supply system

9.7 Water security assessment

Council holds a WAL entitlement of 22 ML/year for surface extraction from Gundong Creek which is as previously mentioned polluted with Atrazine above safe limits. Council has no water source of its own at or near Tomingley that is suitable for town water supply. Tomingley's water supply is dependent on the supply of 11ML/year via the Tomingley Gold Operations pipeline under the terms of their voluntary planning agreement with Council. The current usage is 10ML/year including plant backwash and operations. As no growth is anticipated in Tomingley it is anticipated that this volume will be sufficient for the next few years or until another source is found.



10. Narromine sewerage scheme

10.1 Scheme description

The Narromine Sewerage Scheme (SS) is a gravity sewage collection system that services a catchment made up of urban and some light industrial properties. This system is comprised of 31.8 km of gravity collection mains with 484 manholes, 11 pump stations and 12 km of pressure mains. Eight of the pump stations plus the collection from SPS 1 pump approximately 7 km to the Narromine Sewage Treatment Plant (STP).

The existing serviced area of the Narromine SS is shown in Figure 10-1, and the SPS pump hierarchy diagram is shown in Figure 10-2.

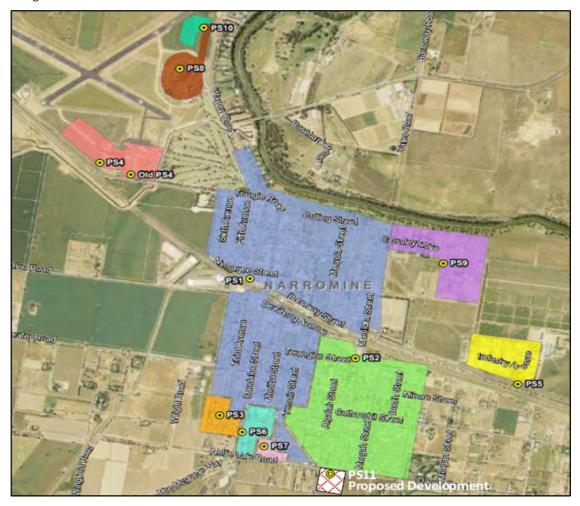


Figure 10-1: Narromine sewerage scheme



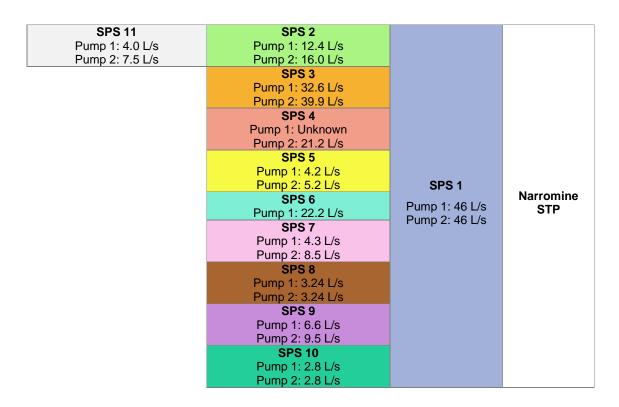


Figure 10-2: Narromine sewerage scheme – pumping hierarchy diagram

All SPSs are of the conventional wet well type and equipped with dual submersible sewage pumps for operation on 1 duty, 1 standby basis. If available, both pump capacities were provided above.

10.2 Hydraulic loadings

STP inflow is recorded at sewage pumping station 1, as there is no inflow meter at the STP. Daily data from September 2017 to June 2021, was provided. The historical sewage inflow to the Narromine STP is shown in Figure 10-3.

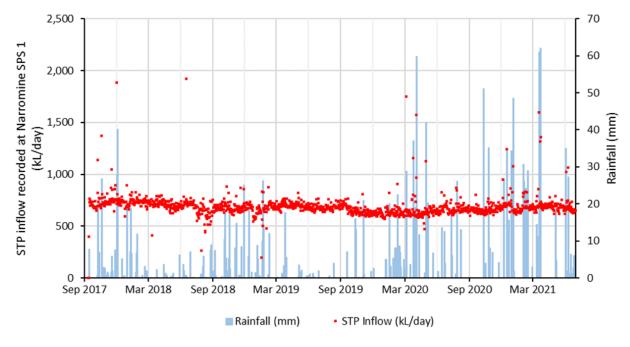


Figure 10-3: Historical daily inflows at Narromine STP

Water and Sewerage



The average dry weather flow (ADWF) was assessed from STP inflows and from the water consumption data. The ADWF was assessed as being 670 kL/day with a hydraulic loading of about 165 L/EP/day.

10.3 Projections

Council nominated growth rates and total new connections within specific SPS catchments of Narromine sewerage scheme. The projected ADWF for each catchment and the scheme, s is summarised in Table 8 1.

Table 10-1: Projected ADWF for the Narromine sewerage scheme

SPS catchment	2022	2027	2032	2037	2042	2047	2052
SPS1	406	429	464	487	493	493	493
SPS2	191	191	191	202	202	202	202
SPS3	25	31	31	31	31	31	31
SPS4	3	15	15	15	15	15	15
SPS5	15	16	18	19	20	20	20
SPS6	8	8	8	8	8	8	8
SPS7	5	8	8	8	8	8	8
SPS8	10	10	10	10	10	10	10
SPS9	12	12	12	12	12	12	12
SPS10	5	11	11	11	11	11	11
SPS11	0	14	21	28	32	32	32
Total to Narromine STP	681	744	788	831	842	842	842

10.4 Assessment of collection and transfer system

The performance of the collection and transfer system was assessed using a hydraulic model for different Average Recurrence Interval (ARII rainfall events. Council selected the 1 in 10 year (10% annual exceedance probability), 1-hour event as the containment standard for the collection and transfer system. The analysis showed that for the selected containment standard, sewage pumping stations 1 and 2 would require a capacity upgrade for the current network and to service future growth.

Current upgrades

The major upgrade required is for the SPS 1 to prevent overflows from the pumping station.

• If the overflow level is correct, then either provide new pumps with pumping rate upgraded to 68 L/s and related switchboard upgrades OR increase the storage within the SPS 1 probably by converting the SPS to wet well pumping station.

Future upgrades

The major upgrade required is for the SPS 1 to remove overflows from the pumping station.

- If the overflow level is correct, then either provide new pumps in the SPS 1 with a pumping rate of 85 L/s with associated switchboard upgrades OR increase the storage within the SPS 1 probably by converting the redundant dry well in in the centre of the station to a wet well pumping station.
- Discharge sewage from new developments named 'Existing Area 2" to manhole AI/4 of Catchment 1
- Discharge sewage from new developments named 'Existing Area 1" to Line YA in Catchment 9



• Discharge sewage from new developments named "Future Area 3" to manhole AB/2 in Catchment 1 (with no upgrades required) OR to manhole AB/5a and upgrade the gravity line from AB/5a to AB/2 to a 225mm diameter main (after verifying the actual diameter of the line.)

Davis Drive Development

The lots in the Davis Drive, are serviced by onsite sewage management systems (OSSMS). There are 10 lots spread across approximately 5 ha and are within the zone of influence of the Narromine Bore field. If these OSSMS do not perform well there is a risk of contaminating the groundwater. Accordingly, options were assessed to transfer the sewage from these properties to the reticulation network of the Narromine sewerage scheme. Three options were considered:

- 1. Gravity discharge to the existing network
- 2. Pumping to a manhole in the network
- 3. Low pressure sewer system

Options 1 and 3 were taken forward to the Scenario development by Council and option 3 low pressure sewer system option has been selected as the solution. Planning for this development has commenced and will start with community consultation with the affected residents.

10.5 Sewage treatment plant

The Narromine STP uses an oxidation pond system to treat raw sewage. The treated effluent is discharged into the maturation pond and the effluent storage pond for further polishing the treated effluent quality prior to irrigation under the NSW Environment Protection Authority (EPA) Environment Protection Licence (EPL) 11715.

The treatment processes are comprised of the following main treatment units:

- One inlet pit,
- Two (2) oxidation ponds 1 and 2,
- One (1) maturation pond,
- One (1) effluent storage pond (160 ML),
- One (1) reticulation pump, and
- An effluent irrigation system consisting of a pump station drawing the effluent from the effluent storage pond to a 45 ha centre pivot irrigator.

An aerial image of the Narromine STP is shown in Figure 2-1.





Figure 10-4: Aerial view of Narromine STP

The design criteria for the Narromine STP are summarised below:

```
DESIGN CRITERIA
G) BESIGN LEADING
                                                                                  YEAR 2003
YEAR 2021
GD UNIT LEADING
    ADVE
                                                                      200 L/EP.d
                                                                      4 × ABWE
    BOD 5
                                                                      60 g/EP.ol
GD FLOVS ABUF (YEAR 2003)
PWVF (YEAR 2003)
PUMPED FLOV
                                                                      9.3 L/s
37.2 L/s
40 L/s
GV) PROCESS DESIGN CRITERIA
   DXIDATION PONDS 1 & 2
    (a) EFFECTIVE DETENTION AT CURRENT ADWF/PDND
                                                                      31 BAYS
                                                                      21360 m 2
    do) MIN. SURFACE AREA/POND AT TWL
    SCO DEPTH TO TWL
                                                                      12 n
    SO BOD LOADING RATE POND 1
                                                                      212 kg/had
    GED LENGTH TO WIDTH RATIO AT TWO
    MATURATION POND
                                                                      20 DAYS
    (a) EFFECTIVE DETENTION AT CURRENT ABMF/PDNB
                                                                      12025 m 2
    Go MIN. SURFACE AREA/POND AT TWL
                                                                      165 ≅
    (c) DEPTH TO TWL
    EFFLUENT STORAGE POND
                                                                      160 ML AT TVL /
    STURAGE VOLUME
    EFFLUENT [RRIGATION AREA
                                                                      45 ha
    20 - 30 ng/L
22 30 - 50 ng/L
          5 - 20 mg/L
20 - 40 mg/L
5 - 9 mg/L
```

Figure 10-5: Narromine STP design criteria

Performance assessment

The Environment Protection Licence (EPL 11715) specifies the concentration and load limits for discharge to waters and are summarised below in Table 10-2 and Table 10-3: Concentration limits for EPL 11715.



Table 10-2: Narromine STP EPL monitoring and discharge points

EPA ID point	Type of monitoring/discharge point	Location description
3	Total effluent volume monitoring	Pump station one
4	Discharge of effluent from the Effluent Storage Pond to Effluent Irrigation area	Effluent quality and discharge volume monitoring at the northern wall of the Effluent Storage Pond
5	Monitoring effluent quality	Effluent quality monitoring point at the discharge from the maturation pond to the effluent storage ponds
6	Discharge and monitoring	Emergency discharge point on the southern wall of the Effluent Storage Pond
7	Soil monitoring in effluent irrigation area	In Effluent Irrigation area

Table 10-3: Concentration limits for EPL 11715

EPA ID point	Pollutant	100 th percentile concentration limit
6	BOD	30 mg/L
6	Nitrogen (ammonia)	20 mg/L
6	рН	6.5 to 8.5
6	Phosphorus (total)	9 mg/L
6	Total Kjeldahl Nitrogen	40 μg/L
6	Total suspended solids	50 mg/L

Table 10-4 below summarises the STP performance assessed from grab samples taken during the 72-hour composite sampling.

Table 10-4: Narromine STP process unit performance assessment

Treatment Unit	Reduction Rate Across Process Unit				
	BOD ₅	SS	TN	NH ₃ -N	TP
Oxidation Pond 1	78.2%	50.4%	34.0%	38.1%	32.6%
Oxidation Pond 2	-13.6%	-17.7%	43.6%	98.3%	6.9%
Maturation Pond	44.6%	30.1%	45.8%	0.0%	-1.9%
Effluent Storage Pond	11.8%	3.8%	12.1%	0.0%	78.2%
Overall STP reduction rate	87.9%	60.7%	82.2%	99.0%	86.1%

Capacity assessment

A capacity assessment was undertaken for the Narromine STP to identify the headroom available within each process unit and determine the timing for augmentation based on the forecast growth. The results are summarised in Table 10-5:.

Table 10-5: Capacity assessment of the Narromine STP



Treatment Unit/System	Unit Capacity	Design Criteria	Current Capacity	Over/ Under Design Capacity
Inlet Chamber		4,000 EP (Year 2003) 5,300 EP (Year 2021) 800 m³ in year 2003 at 200 L/EP/d 1,060 m³ in year 2021 at 200 L/EP/d	Projected 842 m³/d ADWF in 2052 535 m³/d at ADWF during monitoring period	Under design capacity
Oxidation Ponds (2 off)	25,632 m ³ , each	200 L/EP/d 240 kg.BOD/d at 60 g.BOD/EP/d in Year 2003 318 kg.BOD/d at 60 g.BOD/EP/d in year 2021	535 m³/d 66 kg.BOD/d at 34 g.BOD/EP/d during monitoring period	Under design capacity
Maturation Pond (1 off)	19,841m³	Detention time: 25 days at 800 m³/d Detention time: 19 days at 1,060 m³/d	Detention time: 24 days at 842 m³/d in 2052. Detention time: 37 days at 535 m³/d during monitoring period	Under design capacity
Effluent Storage Pond (1 off)	160,000m ³	Detention time: 200 days at 800 m³/d Detention time: 151 days at 1,060 m³/d	Detention time: 190 days at 842 m³/d in 2052. Detention time: 299 days at 535 m³/d during monitoring period	Under design capacity

Identified works

The following works were identified at the STP to overcome the issues:

- Install a screening system at the inlet works
- De-sludge primary oxidation pond to avoid impacting on the performance of the plant
- Provide septage receival system to receive sullage and other pump outs form the Shire

Measures are already in hand to commence all these works with a sludge Study now completed and Tenders being prepared for all these activities in readiness for when budget is available potentially in the 2026/2027 financial year.



11. Trangie sewerage scheme

11.1 Scheme description

Trangie has a gravity collection sewage system that services a catchment made up of urban and light industrial properties. This system comprises of 11.8 km of gravity collection mains with 201 manholes, 4 pump stations and 2.78 km of rising mains.

The existing serviced area of the Trangie sewerage scheme is shown in Figure 11-1, and the SPS pump hierarchy diagram is shown in Figure 11-2.

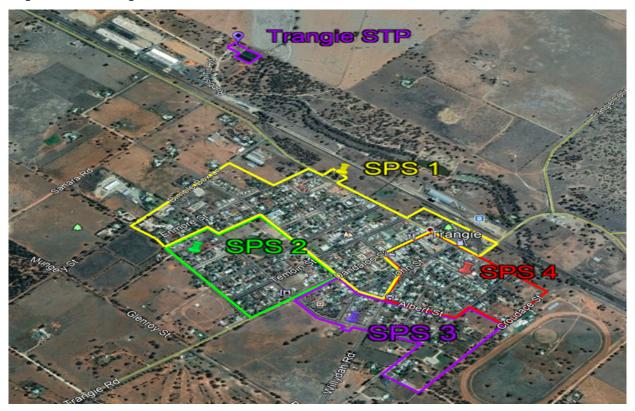


Figure 11-1: Trangie sewerage scheme

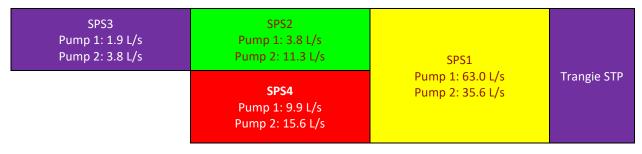


Figure 11-2: Trangie SPS pump hierarchy

11.2 **Hydraulic loadings**

STP inflow is now recorded via a flowmeter installed in August 2023 on the incoming line at the STP. The historical sewage inflow to the Trangie sewage treatment plant shown in Figure 11-3 were prior to repairs at SPS 1 (including nonreturn valve replacement) and installation of the flow meter at the STW. The daily inflows and rainfall since august 2023 are shown in Figure 11-4

Water and Sewerage



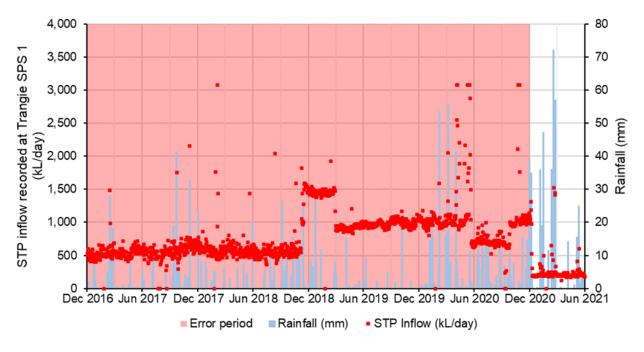


Figure 11-3: Historical daily inflows at Trangie STP prior to installation of flowmeter

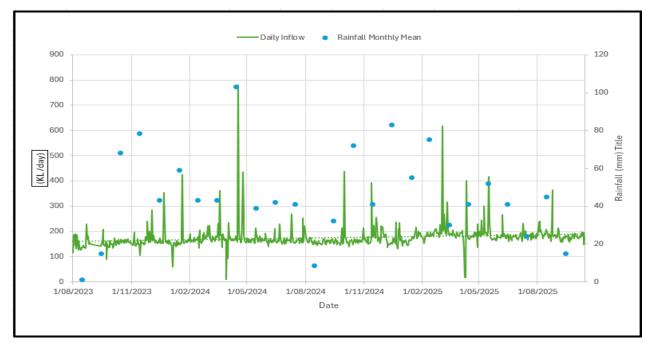


Figure 11-4: Historical daily inflows at Trangie STP since installation of flow meter in August 2023

The average dry weather flow (ADWF) was assessed from STP inflows and from the water consumption data. The ADWF was assessed as being 190 kL/day with a hydraulic loading of about 175 L/EP/day.

11.3 Projections

Council nominated growth rates and total new connections within specific SPS catchments of the Trangie sewerage scheme. The projected ADWF at a sewer catchment level and at the scheme level, is summarised in Table 11-1.



Table 11-1: Projected ADWF for the Trangie sewerage scheme in Kilolitres per day

SPS catchment	2022	2027	2032	2037	2042	2047	2052
SPS1	91	92	96	99	99	99	99
SPS2	33	33	33	33	33	33	33
SPS3	24	24	24	24	24	24	24
SPS4	44	44	44	44	44	44	44
Total to Trangie STP	191	192	196	199	199	199	199

11.4 Assessment of collection and transfer system

The performance of the collection and transfer system was assessed using a hydraulic model. The performance of the network was assessed for different ARI events. Council selected the 1 in 10 year (10% annual exceedance probability), 1-hour event as the containment standard for the collection and transfer system. The Trangie sewage collection and transfer system can contain a 1 in 10-year 1 hour rainfall event without any major surcharges or overflows. Accordingly, no system upgrades are required.

11.5 Sewage treatment plant

The Trangie STP is a Pasveer Channel activated sludge treatment plant built in 1977 which has undergone significant renewal over the last three years including full refurbishment of both aeration pontoons, replacement of the sludge pump and refurbishment of the decant lift system. The current STP comprises of the following main treatment units:

- Bar screening (now being replaced with a Spirac Brush Screen as part of WHS upgrades)
- Pasveer P1000 Aeration Channel
- Two maturation ponds
- Two sludge ponds

An aerial image of the Trangie STP is shown in Figure 11-55.

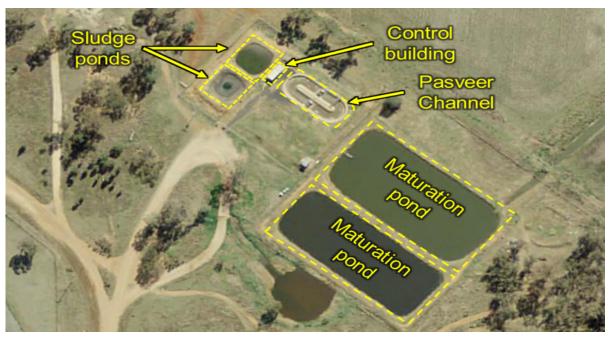


Figure 11-55: Aerial view of Trangie STP

Treated effluent from the Pasveer Channel gravitates to the maturation ponds, where it is disposed of by evaporation.

Water and Sewerage



Overflow from the maturation pond is discharged via the effluent outlet structure where it flows along a 2 km effluent discharge channel and terminates at the Trangie Agricultural Research Station. This has potential WHS and environmental risks as the overflows are uncontrolled and discharged through an area where access by livestock and potentially human contact is possible.

Solids are excavated from the sludge drying beds and buried at the nearby landfill site.

Performance assessment

Council does not hold an EPL for the Trangie STP. Table 11-2 below summarises the STP performance assessed from grab samples taken during the 72-hour composite sampling.

Table 11-2: Trangie STP process unit performance assessment

Treatment Unit	Reduction Rate Across Process Unit					
	BOD₅	SS	TN	NH ₃ -N	TP	
Pasveer channel	96.5 %	96 %	66.3 %	98.8 %	35 %	

Capacity assessment

A capacity assessment was undertaken for the Trangie STP to identify the headroom available within each process unit and determine the timing for augmentation based on the forecast growth. The results are summarised in Table 11-3.

Table 11-3: Capacity assessment of Trangie STP

Treatment Unit/System	Unit Capacity	Design Criteria	Current Capacity	Over/ Under Design Capacity
Inlet Chamber		240 kL/d at ADWF	Projected 199 m³/d ADWF in 2052 144 m³/d at ADWF during monitoring period	Under design capacity
Pasveer Channel (1 off)	240 m ³ /d 1,000 EP @ 240 L/EP/d	240 L/EP/d* 70 kg.BOD/d at 70 g.BOD/EP/d* 70 kg.TSS/d at 70 g.TSS/EP/d*	144 m³/d 21 kg.BOD/d 31 kg.TSS/d during monitoring period	Under design capacity
Sludge Lagoon (2 off)	329 m³, each	Thickened sludge volume: 2.0 m³ TSS/d Storage capacity at depth of 2.6 m: 329 days	Thickened sludge volume: 0.6 m³ TSS/d Storage capacity at depth of 2.6 m: 551 days during monitoring period	Under design capacity
Maturation Ponds (2 off)	5,300 m ³ , total	Detention time: 22 days at 240 m ³ /d	Detention time: 27 days at 199 m³/d in 2052. Detention time: 37 days at 144 m³/d during monitoring period	Under design capacity

Short-term recommendations



Council engaged GHD Pty Ltd (GHD) to review the potential causes of effluent quality concerns and identify possible improvements. The short-term recommendations identified by GHD in their report 'Trangie STP Preliminary Assessment' 8 April 2022, are listed below as well as the responses and actions implemented so far in response to this report.

- Discuss with the users of water from the open channel the performance of Trangie STP, particularly the limited pathogen reduction, and the risks of using the water. Agree on risk mitigation measures to be taken by Council and the users, guided by the Australian Guidelines for Water Recycling. Preliminary discussions in relation to this so far has not settled on a full strategy beyond general awareness. Council had already constructed a new laboratory prior to receiving this report and has been implementing a monitoring program on effluent quality.
- Trial operating the Pasveer channel aerators continuously throughout the aeration phase. This action has been carried out and following a successful trial implemented permanently into the plant control philosophy.
- Identify the Pasveer channel aerator power rating and adjust the aerator immersion to suit the rated power. This has also been completed and is noted for checking within the plant standard operating procedures.
- Investigate the cycle duration and frequency mismatch observed during the site visit and address flaws in the control code. This work has been completed and the fault rectified.
- Consider adopting longer cycle duration, such as 4 h (i.e. 6 no. cycles/d) to increase the daily aerator run time (e.g 2.5 h aeration, 1 h settle, 0.5 h decant). This has been implemented, and the current operating cycle of the aerators is 6 cycles per day this has led to an improvement in effluent quality.
- Measure the sewage flow pumped from the upstream sewage pump station or at the Trangie STP inlet, perhaps using a temporary external flow meter (e.g. clamp-on ultrasonic type) or a permanent installed flow meter (e.g. electromagnetic type). A permanent Magflow meter has been installed on the inlet to the treatment plant.
- Assess the capacity of Trangie STP for its intended or a practicable target treated sewage quality and
 estimate its pathogen removal performance and identify capacity bottlenecks. This assessment is currently
 taking place.
- Carry out minor works to address capacity bottlenecks or improve performance. This is being done predominately in the form of upgraded inlet works.
- Investigate the timing of waste activated sludge (WAS) pump operation and consider modifying Pasveer
 channel process control so WAS is pumped shortly after the start of the aeration phase, which both
 facilitates solids residence time control and the mid-level location of the WAS offtake. A delay from the
 start of the aeration phase is needed to provide time for the mixed liquor to be well-mixed following the
 settle and decant phases. These programming changes were implemented at the same time as the changes
 to the aeration cycle.
- Identify key operational parameters and methods to control them, e.g. select a target Pasveer channel solids residence time range, monitor by MLSS at BWL and control by adjustments to WAS pump operation and maintain MLSS at suitable concentration, likely to be 3,000 3,750 mg/Investigation is currently underway into the installation of a permanent MLSS monitoring station and the possible additional automation of WAS pump controls.
- Estimate the volume of the effluent ponds occupied by sludge and consider desludging one or both. A preliminary survey has been conducted with initial results questioning the need for any further work at this stage.
- Identify the locations of feed pipes and interconnections between the two effluent ponds, assess the potential for short-circuiting or dead zones and consider install floating baffle curtains to reduce short-circuiting or dead zones. This advice is still under consideration.



12. Unserviced communities

Tomingley is the only village in the Shire which has potable water but no sewer. Council does not have a policy for management of OSSMS.

The performance of the OSSMSs were assessed for the unserviced area of Tomingley. A preliminary assessment of the operating environment at Tomingley was undertaken in accordance with the Department of Local Government document "On-site sewage management for single households", Jan 1998. A summary of the assessment, with the identified issues, is presented in Table 12-1

Table 12-1: Assessment of on-site sewage management system performance at Tomingley

Parameter	Site drainage	Lot size	Buffer distance to permanent surface water			
OSSMS requirements						
Requirement	Well drained	Well drained soil: minimum 2,000 m²	Minimum 100 metres			
		Poorly/imperfectly drained soil: 2,000 to 4,000 m ²				
		Practically impervious soil: minimum 4,000 m ²				
Risk if requirement is not met	Resurfacing hazard (leading to potential human contact)	Public health risk: insufficient area for effluent disposal leading to potential human contact	Contamination of surface water			
Village assessment						
Tomingley	Clayey sand in first 60 cm of soil, followed by 70 cm of clay soils, followed by shale and claystone. This is generally poorly drained soil.	Clayey sand and clay soils are generally poorly drained soils. Most lots average 1,020 m² in the RU5 village zone.	Two properties within 100 metres from Gundong Creek. These properties treat sewage via septic tanks and dispose of effluent via surface irrigation and soil absorption.			

Council provided their septic register, which contains details of properties that are on OSSMS. In Tomingley, there are 34 properties that are on OSSMS, of which:

- 30 properties are septic tanks, of which 2 properties dispose of their effluent by rubble drains, 20 properties via soil absorption, 7 properties via surface irrigation, and one property via sub-surface irrigation.
- Three properties are pump-out tanks with effluent disposal by soil absorption.
- One property is AWTS (aerated wastewater treatment system) with effluent disposal by surface irrigation.

An aerial image of Tomingley is shown in Figure 12-1.



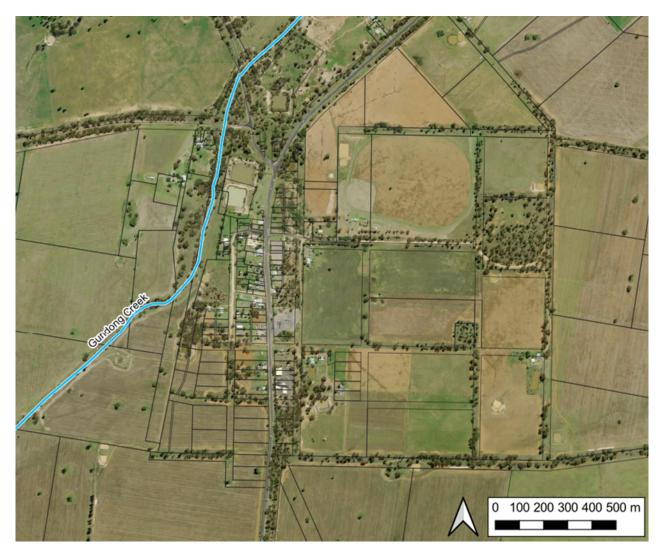


Figure 12-1: Unsewered community – Tomingley

Council has decided not to sewer Tomingley.

Council can review any inspection reports to confirm the outcome of the desktop assessment. If no inspection reports are available, the action can be for Council to undertake septic tank inspections and collect information on the performance of the systems. Council could then direct homeowners under Section 68 of the Local Government Act, to address any performance related issues with the systems.

13. Future actions and implementation plan

13.1 Scenarios

Table 13-1 and Table 13-2 show the bundled Scenarios segregated for convenience into water supply and sewerage schemes. The issues that are being addressed by each option are also listed.

Table 13-1: Shire wide water supply scenario – infrastructure needs

Target for compliance	Issue	Option	Scenario 1	Scenario 2
Narromine water supply scheme				
Water security	Drought reliability of the water supply	Utilise the existing bores and supplement with water from	√ 2040	



Target for compliance	Issue	Option	Scenario 1	Scenario 2
		Macquarie River. Construct a raw water pump station and intake and a pipeline to the existing water treatment plant – Pipeline route from the River intake to the WTP to be finalised later.		
		Continue to use groundwater bores and locate sites for additional bores to meet demand.		√ 2040
Water quality	sensitive and chlorine	Upgrade existing temporary plant	√ 2025	
resistant pathogens in the water supply.	New conventional treatment plant with sedimentation tank and mechanical sludge dewatering		✓ 2025	
System performance				
Non-revenue water at Narromine and Trangie water supply schemes	The infrastructure leakage index (ILI) for the Narromine and Trangie potable water supply schemes are 6.7 and 12.6 respectively indicating very high water losses.	 Develop and implement a community education program on water saving measures. Develop and implement a water loss management plan Consider limited time rebates for replacement of water fittings and appliances (including evaporative coolers) 	√ 2026	√ 2026

Table 13-2: Shire wide sewerage scenario – infrastructure needs



Target for compliance	Issue	Option	Scenario 1	Scenario 2	
Reliability of infrastructure - STP	Raw sewage at the STP is not screened and could lead to build up of solids and grit	Install screening system at the STP inlet works.	√ 2025	√ 2030	
	System performance impacted by lack of sullage pump out facilities.	Provide septage receival system at the Narromine STP	√ 2025	√ 2030	
Infrastructure performance	Oxidation pond has not been de-sludged and performance may be impacted	De-sludge primary oxidation pond	√ 2026	✓ 2026	
Trangie sewerag	ge scheme				
Infrastructure performance	Improve effluent quality	Undertake investigations recommended in the GHD report	✓ 2025	√ 2025	
Unserviced areas					
On-site sewage	Systems in lots on Davis Drive are in	Gravity reticulation and pumped sewerage system	√ 2030		
management systems	proximity to the water supply bores	Low-pressure sewerage system		√ 2030	

13.2 Present value analysis

A present value analysis of the Scenario at annual real discount rates of 4%, 7% and 10% has been undertaken. Detailed net present value cost estimates for the Scenario are provided in Appendix A.

A summary of the estimated total cost of capital outlay and the present value (PV) of the capital, and the operating and maintenance (O&M) cost estimates over the 30 years for the water supply and sewerage services in the Scenario is shown in Table 13-3 and Table 13-4 respectively.

Table 13-3: Summary of capital and PV costs for the IWCM Scenario – water supply

Scenario	Total capital cost over 30 years (\$'000)	Present value of capital cost @ 7% (\$'000)	Present value of operating cost @ 7% (\$'000)	Total present value @ 7% (\$'000)
Scenario 1	36,170	31,497	4,800	36,297
Scenario 2	47,120	34,350	8,479	42,829

Table 13-4: Summary of capital and PV costs for the IWCM Scenario – sewerage

Scenario	Total capital cost over 30 years (\$'000)	Present value of capital cost @ 7% (\$'000)	Present value of operating cost @ 7% (\$'000)	Total present value @ 7% (\$'000)
Scenario 1	3,660	2,663	235	2,898
Scenario 2	3,100	2,533	257	2,791



14. Typical residential bill (TRB) analysis

As part of the assessment of IWCM scenarios, approximate annual Typical Residential Bills (TRBs) for the Council's water supply and sewerage services have been estimated by developing water and sewer fund financial models.

14.1 Input details

The water and sewer fund financial models were developed using DCCEEW's FINMOD 4 financial modelling software with reference to the historical financial input details based on Council's 2021-22 and 2022-23 water and sewer income and financial position statements. These were the financial data submitted as part of the Council's financial data returns (FDRs) to the Office of Local Government (OLG). Approximate TRBs forecast by the models are expected to be within about 10% of the final TRBs that will be forecast in the Financial Plan for the Council adopted IWCM strategy. All additional inputs and forecast details are in 2023-24 \$.

The financial models for IWCM scenarios have been built upon the base line scenario which corresponds to the Council's 'business-as-usual' 30-year water supply and sewerage asset renewal plans. The estimated capital costs of the IWCM initiatives for each of the scenarios have then been incorporated to the baseline capital works program for the purpose of a comparative TRB analysis of IWCM scenarios.

The 30-year capital works programs for the IWCM scenarios and the 'baseline' scenarios for water supply and sewerage services are compared in Figure 14-1 and Figure 14-2 respectively. Detailed 30-year capital works programs are in Appendix B and Appendix C.

The operation, maintenance and administration (OMA) cost estimates for the scenarios including additional expenses for IWCM initiatives and the recommended management system improvement measures for water supply and sewerage services are compared in Figure 14-3 and Figure 14-4.

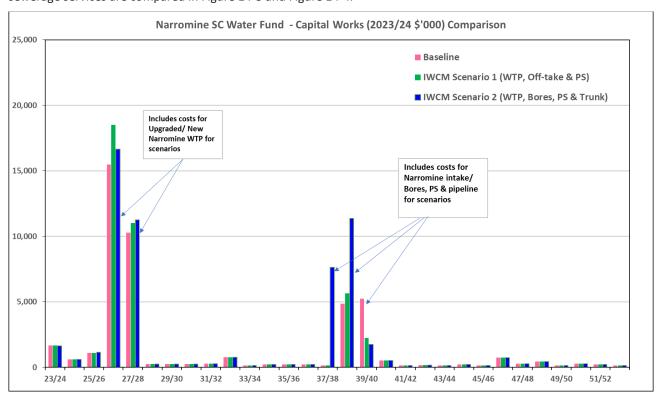


Figure 14-1: Comparison of 30-year capital works program – Water supply



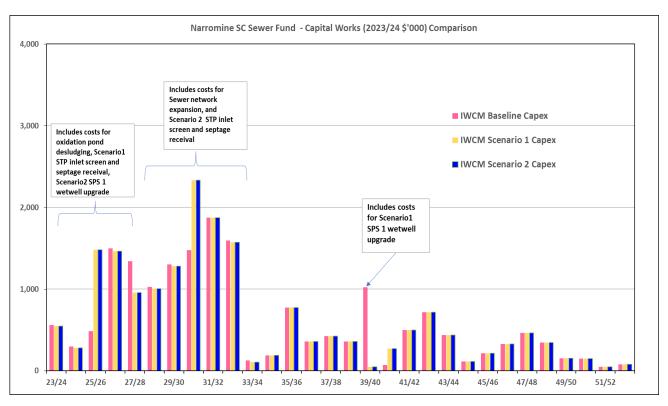


Figure 14-2: Comparison of 30-year capital works program – Sewerage

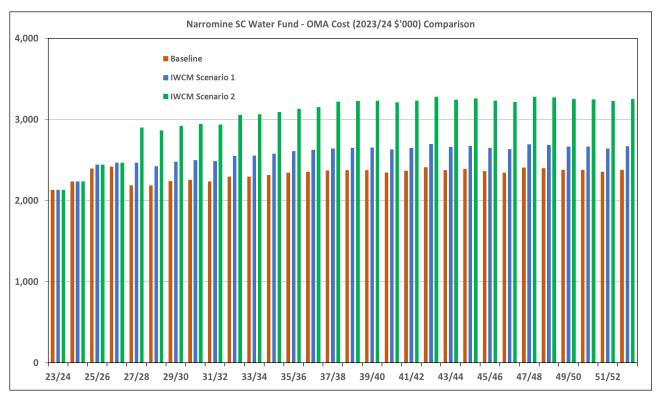


Figure 14-3: Comparison of 30-year OMA expenditures – Water supply



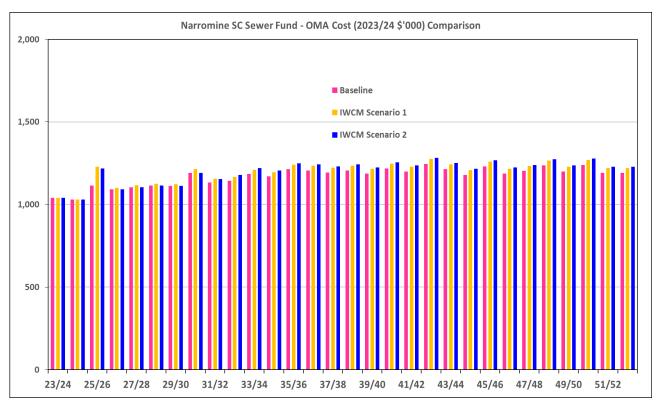


Figure 14-4: Comparison of 30-year OMA expenditure – Sewerage

14.2 Developer charges

Developer Charges (DCs) for water supply and sewerage services represent a significant revenue source for Council's water and sewer funds. They are directly influenced by future capital works programs for both service level improvements and extensions to new development areas. Accordingly, DCs are an important input in the financial modelling process.

For the purpose of the IWCM scenario assessment, 'first-cut' DCs have been developed based on the estimated costs and timing of major capital works within each scenario. These preliminary estimates have been calculated in accordance with the 2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater, and applied within the Total Revenue Requirement (TRR) forecasts.

It should be noted that these first-cut DCs are initial estimates only, based on 100% cost recovery from development (i.e. no cross-subsidy). They are intended to provide an initial indication of potential charge levels and will require further review and refinement once Council's preferred IWCM strategy is selected. This refinement will consider factors such as additional service areas, potential cross-subsidy arrangements, and Council's overall appetite for subsidisation.

First-cut DCs have been estimated for water supply across the three independent schemes (Narromine, Trangie, and Tomingley) and for sewerage services in Narromine and Trangie. The resulting preliminary estimates used for the IWCM scenario TRR forecasts are presented in Table 14-1 and Table 14-2 respectively.

Table 14-1: First-cut Developer Charges – Water Supply

Scenario	Current (2023 -24) Developer Charge	First-cut Develop	oper Charge per ET (2023-24\$)													
	per ET	Narromine	Trangie	Tomingley												
Baseline	3,000	15,898	207	Nil												
IWCM Scenario 1	3,000	16,914	207	Nil												



CM Scenario 2 3,000 16,489 207 Nil

Table 14-2: First-cut Developer Charges – Sewerage

Scenario	Current (2023 -24) Developer Charge per ET	First-cut Developer C (2023-24\$)	harge per ET
		Narromine	Trangie
Baseline	3,500	4,275	4,275
IWCM Scenario 1	3,500	4,675	4,675
IWCM Scenario 2	3,500	4,775	4,775

14.3 Water supply TRB forecasts for Scenarios

The water financial model for the scenarios considered 75% government grant/subsidy secured by the Council for undertaking Narromine water supply upgrade projects. Note, all the forecasts are in 2023-24 \$ values and need to be adjusted for CPI/ inflation.

Based on the reported billing revenue and the water supply tariff structure adopted by the Council, following TRBs for 2023-24 and 2024-25 have been estimated and used in the model forecasts.

- TRB for 2023-24: \$1,030 p.a.
- TRB for 2024-25: \$1,145 p.a. (\$1,184 p.a. in 2024-25\$)

TRB forecasts have been made with a view to maintain a minimum level of cash and investment of \$500K in the water fund throughout the forecast period. Water supply TRBs from 2025-26 onwards for the baseline and the IWCM scenarios over the 30-year forecast period are compared in Figure 14-5.

At the forecast levels of TRBs, after due consideration of the government grants/ subsidy, new loans will be required to fund the Narromine water supply upgrade projects. A comparison of new loan requirements for the IWCM scenarios is shown in Figure 14-6.



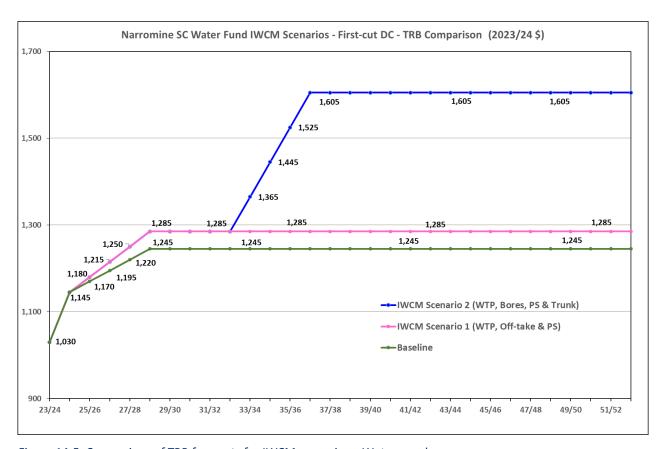


Figure 14-5: Comparison of TRB forecasts for IWCM scenarios – Water supply

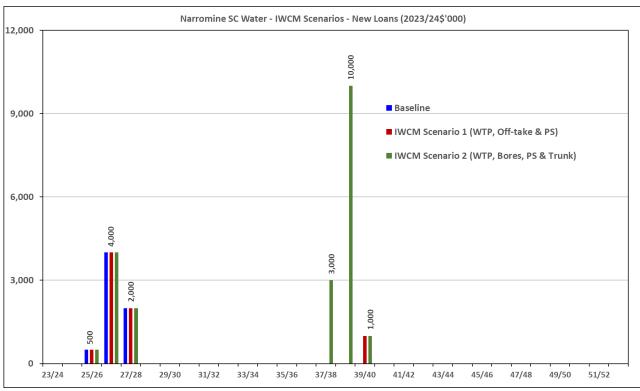


Figure 14-6: Comparison of new loans for IWCM scenarios – Water supply



14.4 Sewerage TRB forecasts for Scenarios

The financial model has been developed and with the no consideration of government grant/subsidy for any of the planned capital works. Note, all the forecasts are in 2023-24 \$ values and need to be adjusted for CPI/ inflation.

Based on the residential sewerage availability charges adopted by the Council, following TRBs for 2023-24 and 2024-25 have been used in the model forecasts.

- TRB for 2023-24: \$702 p.a.
- TRB for 2024-25: \$712 p.a. (\$738 p.a. in 2024-25\$)

TRB forecasts have been made with a view to maintain a minimum level of cash and investment of \$500 K in the sewer fund throughout the forecast period. Sewerage TRBs from 2025-26 onwards for the baseline and the IWCM scenarios over the 30-year forecast period are compared in Figure 14-7.

At the forecast levels of TRBs, no new loans will be required to fund any of the planned sewer fund capital works.

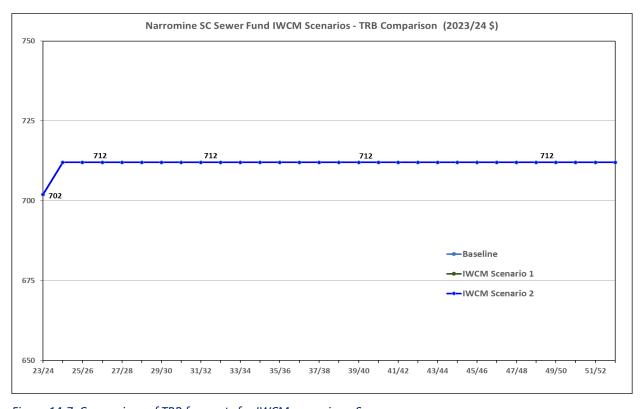


Figure 14-7: Comparison of TRB forecasts for IWCM scenarios – Sewerage

15. Asset management

Council's Water supply and Sewerage Asset Management Plans provide a detailed overview of the asset management systems, procedures and strategies in place to ensure delivery of services in a safe, reliable and cost-effective manner. Council's systems to manage assets include:

- Maintaining up to date water supply and sewer asset registers with required physical and financial details
- Geographic Information Systems (GIS)
- Reports of routine asset inspections for condition, operation and compliance
- Records of planned and unplanned maintenance incidents and customer requests



15.1 Total asset management plan

The total asset management plan (TAMP) provides the details of planned capital works and recurrent operations, maintenance, and management (OMA) expenditure over a 30-year planning horizon. TAMP provides vital inputs for managing infrastructure assets to meet the levels of service in the most cost-effective manner for the present as well as the future customers. It also helps Council to develop their long-term funding strategies by linking to a long-term financial plan which identifies funds required to implement capital and recurrent expenditure at affordable levels of customer charges.

15.1.1 Capital works

Capital works are generally categorised as follows.

Growth works	Works required to increase the capacity of facilities, to service new release areas, subdivisions, etc.
Improved level of service works (ILOS), including backlog works	Works to provide better public health and environmental standards, better service, higher reliability, or an extension of services to existing unserviced areas. Works in this category may be eligible for Government grants.
Asset renewal	Renewal and replacement of existing assets which have reached the end of their effective economic service life due to age, condition, or performance.

Asset creation/upgrade/expansion

The recommended IWCM strategy has enabled Council to develop and maintain a schedule of capital works into the future to satisfy the forecast service demands in terms of growth and improved levels of service over the planning horizon. Capital works identification and finalisation is based on the preferred options to address the asset system and performance issues.

All viable options for the provision of new assets or upgrades/ expansion of existing assets to cater for community requirements have been developed and assessed in terms of their economic, social and environmental benefits to achieve optimum solutions for creation of new assets or upgrading/ expansion existing infrastructure.

Asset renewal

Anticipating the need and timing for asset renewal and replacement is critically important to ensure that funding is available to carry out the identified renewal/ replacement works in a timely manner. For the purpose of strategic planning, identification of the timing and costs of renewal requirements for water supply and sewerage assets has been undertaken adopting the following methodology in line with the IPWEA Practice Note 7, V3, 2016:

- Collation of the water and sewer assets/ facilities and components recorded for each of the asset/ facility from the Council's asset database/ asset registers. Council has been using a spreadsheet-based asset register to maintain and manage the records of sewerage assets.
- Labelling of components of assets with different useful lives as civil, mechanical, electrical and telemetry/instrumentation components. This is in line with the Australian Accounting Standards (AAS 16 and AASB116) that require assets comprised of significant parts with different useful lives to be depreciated separately (referred to as "componentisation") to enable a meaningful and accurate timing and costs of future renewals.



- Updating the current replacement costs of the assets/ components based on the latest revaluation records to the 2023-24 financial year using the relevant Construction Cost Index (CCI) prescribed by the NSW Reference Rates Manual – Valuation of water supply, sewerage, and stormwater assets (2023 update)
- Estimation of 'condition adjusted' remaining useful lives as a % of adopted useful lives of components
 listed in the asset registers. Where condition rating details of asset component levels are unavailable
 (underground assets), age based remaining useful lives have been considered. 'Condition adjusted'
 remaining useful lives of water and sewer asset components have been estimated during Council's asset
 revaluation as of 30 June 2022 for the purpose of reporting to OLG.
- Prioritisation of renewal of assets that are considered critical by adjusting the estimated remaining
 useful lives for 'criticality' of the assets/ facilities in consideration of the consequences of asset failure.
 The assets/ facilities with severe consequences of failure as identified by the Council have been assigned
 higher criticality ratings, and have been prioritised for earlier renewal to avoid probable major failures
 to service provision
- Development of asset renewal plans by collating the scheme/ facility-wise timing and costs of components (in terms of current replacement costs) for a 30-year period starting 2023/24, following the adjustment to the remaining useful life for asset criticality.
- Further review and refinement of the collated 30-year asset renewal works to align with the adopted 10-year capital budget of the Council, and to disaggregate the lumped-up renewal requirements, particularly for water and sewer mains, with a view to spread-out the renewal capital funding requirements.

Capital costs summaries

Council has further reviewed the new and renewal capital works recommended by the IWCM scenario 1 strategy for their impact on the customer bills and refined the timings of some of the major works. The Council adopted 30-year capital works plans for water supply and sewerage are summarised in Figure 15-1 and Figure 15-2. Detailed schedule of 30-year capital works for water supply and sewerage are presented in Appendix B and Appendix C.



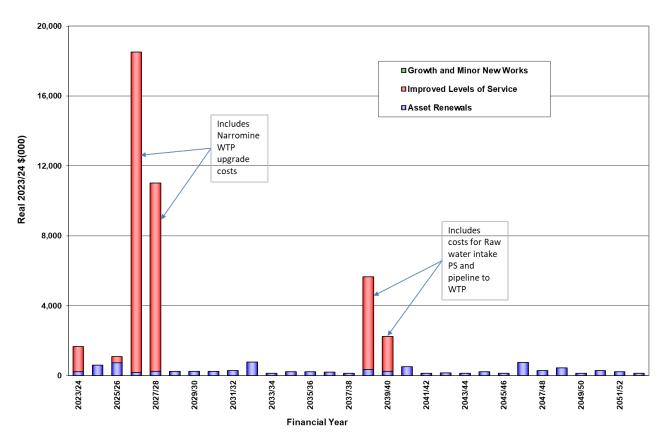


Figure 15-1: 30-year Capital cost summary – Water supply

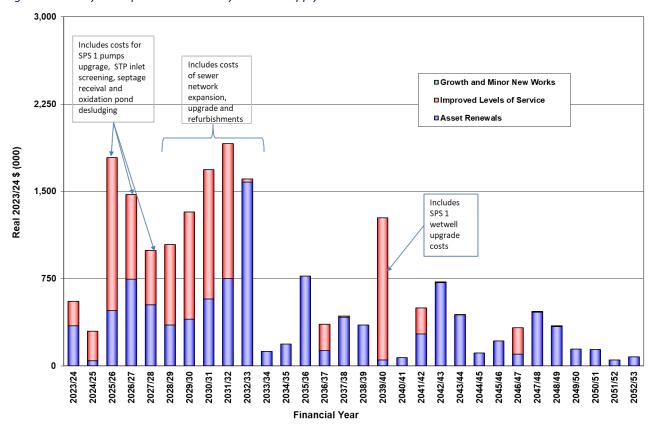


Figure 15-2: 30-year Capital cost summary – Sewerage

Water and Sewerage



15.1.2 Recurrent operation and maintenance works

Operation of the systems includes regular activities to deliver services to customers using the asset/infrastructure. Maintenance includes all actions necessary for retaining an asset as near practicable to an appropriate service condition to keep assets operating. Routine maintenance involves regular ongoing work that is necessary to keep assets operating, including instances where portions of the asset fail and need immediate repair to make the asset operational again. Recurrent and ongoing costs of the TAM plan include the following:

Administration/ Management costs	Reflects true overheads associated with providing a service. Any cross subsidies with the General Fund should be eliminated or explicitly disclosed in the Annual Accounts.
Operations and Maintenance (O&M) costs	It is assumed that the current level of costs shown in the Financial Statements reflects a realistic level of expenditure for the current schemes. The projections assume costs increase in proportion to growth.
Additional OMA costs	Additional costs are included where specific activities have been identified for future years. This includes new initiatives, plus additional costs associated with new capital works identified as part of the adopted IWCM scenario.

Routine operation and maintenance expenditure is expected to trend in line with the value of asset stock. Additionally, Council has identified a number of best practice asset management initiatives that will require additional recurrent expenditure.

Summary of 30-year recurrent cost forecasts including for management, operation and maintenance for water supply and sewerage services are presented in Figure 15-3 and Figure 15-4. Detailed schedules of additional operation, maintenance and administration (OMA) costs are presented in Appendix D.

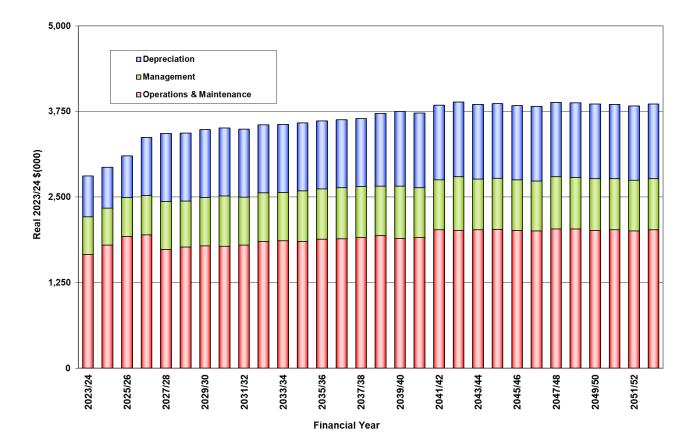


Figure 15-3: 30-year Recurrent O&M cost summary –Water supply



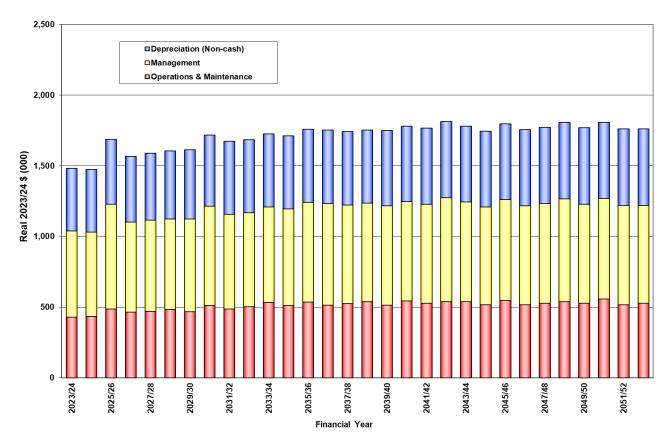


Figure 15-4: 30-year Recurrent O&M cost summary –Sewerage

16. Financial plan

This section presents the details of long-term financial plans for water supply and sewerage services for the Council preferred IWCM scenario TAM Plans. The overall goal of financial planning is to determine the lowest, sustainable price path for the water supply and sewerage services on which to base Council's tariff structures. The details of assumptions, input data and output financial projections for the preferred IWCM scenarios are presented in this plan. Sensitivity of financial forecasts to possible changes to key financial model input parameters are also presented in this section.

16.1 Financial modelling methodology

FINMOD 4.0, the software developed by DCCEEW was used to develop the water and sewer fund financial models. The financial models have been developed for a 30-year planning horizon.



A stable level of annual residential charges for water supply and sewerage services has been achieved using Finmod by optimising the long-term funding strategy in meeting the demands of the capital works programs and day-to-day operations, while ensuring a minimum level of cash liquidity. For a particular Level of Service (LOS), FINMOD enables examination of the financial models for a range of funding options to determine the best mix of borrowing and internal funding.

The financial model balances the forecast income and expenditure for each service delivery option over the projected modelling period. Figure 16-1 illustrates the main income and expenditure elements which affect the financial modelling.

The goals of the financial modelling are to:

- optimise the long-term funding strategy
- meet the demands of the capital works programme and other life cycle costs of the system assets
- ensure a minimum level of cash liquidity; and
- provide a forecast of the typical residential annual charges over the long-term.

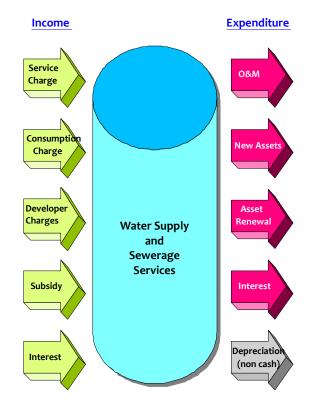
Figure 16-1: Elements of financial modelling

The long-term financial plans demonstrate the sustainability of future actions and also demonstrate the sensitivity of model outcomes to some of the key assumptions made.

Funding is usually achieved from a mix of borrowing and direct revenue and can also be offset by receiving Government grants and subsidies where available.

Renewal programs would usually be funded from revenue, and some cash would be accumulated in anticipation of major projects, in order to reduce the need for borrowing. DCCEEW encourages the use of long-term loans because they support the idea of intergenerational equity and reduce the requirement of raising funds from existing customers in the short term.

If the resulting annual charges are considered unacceptable or unaffordable, some input variables, such as levels of service, can be negotiated to arrive at a satisfactory levels of annual charges. For example, to reduce the level of annual charges, Council may delay some of the capital works, reduce customer levels of service for service interruptions, or may take long-term structured loans. Council's charging and pricing policies will also take into account corporate policies, approach to risk and the acceptability of charges to the community. Some of these risks are evident from the sensitivities presented in this plan.



While the preferred model reflects the expected performance of the systems, it does not give any indication of the sensitivity of the proposed solutions should the basic assumptions used prove significantly different in practice.

For that reason, a sensitivity analysis is carried out if it is perceived that a variable may change significantly in the future. The value of a sensitivity analysis is that it shows:

- The sensitivity of the results to assumptions (uncontrollable variables); and
- The impact of changing controllable variables.

DCCEEW's Regulatory and Assurance Framework for Local Water Utilities, July 2022 suggests that several sensitivities should be carried out to test the robustness of the forecasts. With regards to controllable variables, such as type of



loan structure, and levels of developer charges, the financial model enables Council to make decisions to establish the most appropriate management policies.

With uncontrollable variables, Council is at the mercy of change. The downside risk of increased interest rates, or lower than forecast growth rates, or rise in energy costs, may be significant.

On-going Review

Over time, changes in model variables can have a significant impact on the accuracy of model forecasts, and this has implications for forward planning. It is recommended that the financial model be reviewed annually, and the financial planning be revisited regularly, preferably on a 3-yearly basis. The Regulatory and Assurance Framework for Local Water Utilities recommends annual updates if a Council has an active capital works program that requires government grant or subsidy.

16.2 Financial model inputs

Several variables and assumptions have been used in the development of the base case of the water and sewer fund financial models (Appendix E) and are summarised in Table 16-1 and Table 16-2. All costs and revenues of the input data (and the model outcomes) are in 2023-24 dollars unless stated otherwise.

The model assumptions are based on a representative view of the impact of a number of factors. They have been grouped into the following five main policy areas and are discussed below:

- 1. Charges
- 2. Revenues and Expenditures
- 3. Service Provision
- 4. Funding Capital Works
- 5. Performance Measures

Table 16-1: Key Input Parameters – Water Fund Financial Model

Data Type	Input Data/ Assumption
Historical Data Source	Council's Financial Data Returns (FDRs) for 2021-22 and 2022-23
Financial Data	Average annual long-term inflation rate: 3.5% p.a. Annual Investment Interest Rate: 5.5% p.a. (default) – 5.0% p.a. adopted Annual Borrowing Interest Rate: 6.5% p.a. (default) – 6.5% p.a. adopted
Opening balances as of June 2023	Total cash & investments: \$563 K; Borrowing outstanding: Nil Minimum cash & investments: \$500 K Terms of new loans: 20 years
Demographic Base Data (2022-23)	Total residential assessments – 2,038 (including 61 unoccupied/ vacant) Total non-residential assessments – 410 (including 32 unoccupied/ vacant) Long-term (30 years) average assessment growth: 0.5% p.a. - Average 25 new customers p.a. for the first 15 years - Average 5 new customers p.a. during 16th to 20th years - Nil growth after 20 years
Revenue Splits	From 2023-24 onwards – 78%: 22% (Residential: Non-residential)



0	Residential and Commercial:
(2023-24)*	Access Charge: \$285 p.a. (20mm meter size) - \$294 p.a. for 2024-25
	Usage Charge: \$2.35 per KL – For all consumption - \$2.70 per KL for 2024-25
	Av. residential water consumption: 315 KL/a
	Typical Residential Bill for 2023-24: \$1,030 p.a \$1,150 p.a. for 2024-25

^{* -} For larger than 20 mm meter size water connections, the annual access charges increase by the square of the proportion of larger meter sizes to 20 mm.

Table 16-2: Key Input Parameters – Sewer Fund Financial Model

Data Type	Input Data/ Assumption
Historical Data	Council's Financial Data Returns (FDRs) for 2021-22 and 2022-23
Financial Data	Average annual long-term inflation rate: 3.0% p.a. Annual Investment Interest Rate: 5.5% p.a. (default) – 5.0% p.a. adopted Annual Borrowing Interest Rate: 6.5% p.a. (default) – 6.5% p.a. adopted
Opening Balances (as of June 2023)	Total cash and investments: \$7,089 K; Borrowing outstanding: Nil Minimum cash & investments: \$500 K Terms of new loans: 20 years
Demographic Base Data (2023-24)	Total residential assessments: 1,844 (including 84 unoccupied/ vacant) Total non-residential assessments: 391 (including 53 unoccupied/ vacant) Long-term average assessment growth: 0.5% p.a. (same as for water) - Average 25 new customers p.a. for the first 15 years - Average 5 new customers p.a. during 16th to 20th years - Nil growth after 20 years
Revenue Splits	From 2024-25 onwards – 77%: 23% (Residential: Non-residential)
Current Annual Charges (2023-24)	Residential annual charge (all meter sizes): - Occupied: \$702 p.a \$738 for 2024-25 - Vacant: \$702 p.a. (100%) - \$738 for 2024-25 Non-residential charge (20mm meter size)*: - Annual charge: \$249.40 p.a. (20 mm meter size) - \$262 for 2024-25 - Usage Charge: \$2.70 per KL - \$2.90 per KL for 2024-25

^{* -} For larger than 20 mm meter size non-residential water connections, the annual sewerage access charges increase by the square of the proportion of larger meter sizes to 20 mm.

16.2.1 Charges

Charging Structure

The projection of typical residential bills (TRBs) for water supply and sewerage are made in 2023-24 dollars. Where feasible, the forecast TRBs are maintained at constant level in real terms to demonstrate that a stable price path is maintained at the lowest level in the long-term based on model assumptions. Any increase in the forecast TRBs where required for the long-term financial viability also are in real 2023-24 dollar values. All forecast TRBs should be increased in line with the CPI (consumer price index) on an annual basis.

Typical residential bills calculated by the financial model will be higher than the average bills because the model considers account revenue losses due to vacant and/or unoccupied tenements and pensioner rebates. Council can use this information for setting its tariff structure for service pricing. The tariff structure is to be reviewed at least every 5 years and indexed in the interim.



Developer charges

First-cut DCs in consideration of the updated costs and timings of the Council preferred IWCM scenario capital work programs have been estimated in accordance with the 2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater. Refer to Section 14.2 for details.

For strategic planning purposes, Council has resolved to cap and adopt the estimated developer charges at the following levels for the financial model forecasts for the preferred IWCM strategy and the corresponding TAMP.

- For water services in all service areas: \$5,000 per ET
- For sewerage services in all service areas: \$2,000 per ET

16.2.2 Revenues and expenditures

Capital works

The capital work expenses form a significant component of the inputs. The capital works program adopted for financial modelling includes all the capital works for the preferred Strategy as incorporated in the 30-year Total Asset Management Plan (refer to Section 15.1).

Recurring Costs

The financial model considers a number of ongoing recurrent costs from historic input details. By default, the model increases historical operation and maintenance expenses pro-rata assessment growth. This has been overridden where Council has provided revised estimates, for example, where the IWCM action plan requires new initiatives, or where new works require additional operating resources as described in Section 15.1.

16.2.3 Service provision

Growth projections

The assessment growth forecast as listed in input parameter Tables (refer to section 16.2) for the strategy development has been used for the financial forecasts.

Expected life of assets

The default average life of the system assets is based on the weighted average of long-lived structures and shorter-lived mechanical plant. These average lives are currently estimated by Council as 75 years for water supply and 90 years for sewerage.

Depreciation is a non-cash expense, which is dependent upon asset lives. The age of assets directly affects the level of future asset renewal works, which are part of the capital works program.

16.2.4 Funding capital works

Some, or all, capital works can be funded directly from accumulated cash reserves. To overcome intergenerational equity issues, it is considered to be a good practice to fully fund renewal programs out of internally generated cash (where practicable) and to borrow only for full or partial funding of new capital acquisitions.

Funds which are surplus to requirements can be used to further reduce or eliminate borrowing requirements, and to reduce interest payments.

Loans are taken out as required also to maintain the adopted minimum cash levels to achieve acceptable levels of TRBs.

Subsidies/grants for capital works

Financial assistance in the form of grants for capital works may be received under various funding programs by the State and Federal Governments such as the Restart NSW or the National Stronger Regions Fund (NSRF). The Program's guidelines, published by the Department of Planning and Environment, Infrastructure NSW and Commonwealth Department of Infrastructure and Regional Development, define the extent of the available grants/ subsidies.

The water fund financial model considered 75% government grant/subsidy already secured by the Council for undertaking Narromine water treatment plant upgrade project identified in the 30-year capital works program. The



sewer fund model has not considered availability of grants for any of the planned capital works during the 30-year planning horizon.

16.2.5 Performance measures

Council will annually review and report the performance of the water and sewer funds as required under the strategic planning processes of the Regulatory and Assurance Framework for Local Water Utilities, July 2022.

16.3 Assumptions and limitations of the Model

The projections of the financial models are mainly based on the previous two years historical financial records. Allowance is made for new initiatives, future rate forecasts, and maintenance of sustainable Levels of Service (LOS) as identified and adopted by Council.

The Total Asset Management Plan shows the best available cost estimates for the long-term capital, operational and maintenance expenditures and are used in the models for projecting the financial position over the next 30 years. Models will require updating as more accurate expenditure schedules become available.

The net operating results in the financial projections should be seen in light of the fact that the depreciation shown in the operating statement is <u>not</u> a cash item. The financial model manages the cash flow and keeps a running tally of the cumulative depreciation so that Council can appreciate the potential future liability for maintaining the value in the system and the LOS. By planning ahead and making optimum use of existing assets, a more cost effective and efficient service should result.

Typical Residential Bills are used as the performance indicators representing overall revenue requirements from residential customers. This should not be confused with the pricing structure. Pricing, that is, the distribution of charges according to consumption or special customer groups, is the subject of a separate revenue planning exercise. Tariff structure for the services will need to take into account corporate policies, approach to risks such as lower than adopted growth rates, increase in interest rates, and the acceptability of charges to the community.

Financial model is <u>not a substitute</u> for regular annual budgeting (i.e., short-term financial planning). The model assumes that all expenses and income occur at the beginning of the year and therefore not suitable to track cash flow throughout the year. It is important, however, that the budgeting process is carried out within the framework of the forecasts made in the long-term financial plan.

16.4 Financial model outcomes – Water supply

16.4.1 Projected financial position

The water fund financial model has been developed with reference to the historic input details based on Council's 2021-22 and 2022-23 water income and financial position statements submitted as part of the financial data returns to the Office of Local Government. All costs and revenues in the additional input data and the model outcomes are in 2023-24 dollars unless stated otherwise, and CPI should be applied annually for the forecast years. The financial projections should be reviewed annually with respect to material changes to the proposed capital works program and/or to any of the underlying assumptions.

The preferred IWCM strategy of Council's water fund financial model assumed 75% of the estimated capital cost for undertaking the Narromine water treatment plant upgrade project to be funded through government grant or subsidy (a contribution of \$21.5 Million).

Typical residential water bills for the water supply tariff structure adopted by Council for the following years have been estimated and used in the model.

- TRB for 2023-24: \$1,030 p.a.
- TRB for 2024-25: \$1,150 p.a.
- TRB for 2025-26: \$1,275 p.a.

Accordingly, the Typical Residential Bill (TRB) forecasts for the customers for the next 30 years are presented in Figure 16-2 below. The financial model demonstrates that the 2025-26 typical residential water bill of \$1,275 p.a. (\$1,365)



p.a. in 2025-26 dollars) needs to increase by \$50 to achieve a TRB of \$1,325 p.a. in 2026-27 and can be maintained at that level for all the remaining forecast period (i.e. increases in line with CPI only).

Council's water fund had no outstanding borrowing as of 30 June 2025. The model forecasts indicates that with the recommended price path, new loans to the tune of \$7.0 Million will be required to fund Council's contribution of the WTP upgrade works. An additional loan (estimated at \$1.0 Million) will be required in 2039-40 to fund Council's contribution of the raw water intake PS and pipeline to WTP project capital works. Note: At this point in time Council has not secured grant funding or subsidy for the pipeline project.

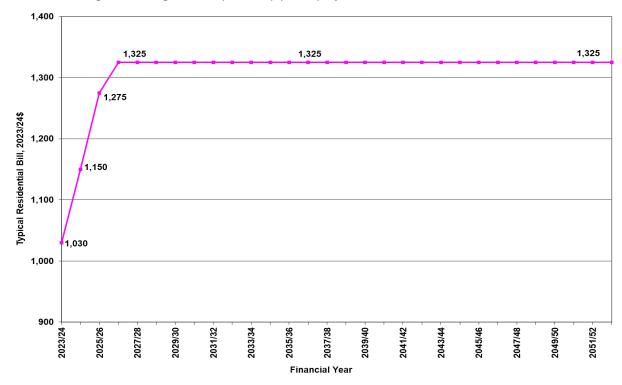


Figure 16-2: Typical Residential Bill - Water supply



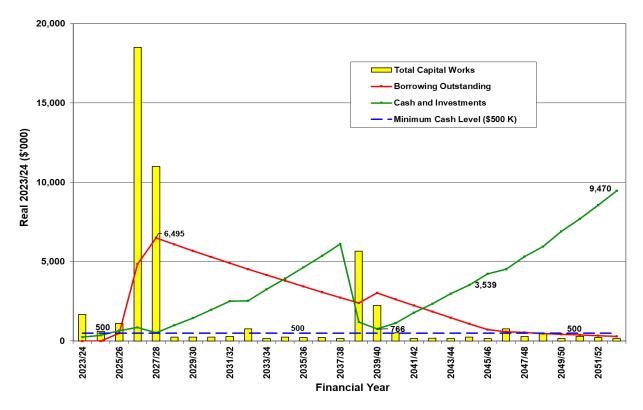


Figure 16-3: Cash and borrowing outstandings projections - Water supply

The levels of cash and borrowing outstandings during the forecast period are presented in Figure 16-3. Forecast borrowing outstandings show that the new loans can be fully paid-off towards the end of forecast period.

The projected levels of TRBs is sufficient to maintain liquidity with a minimum level of cash and investment of \$500 K in the water fund from 2025-26 onwards and throughout the forecast period.

Projected financial results for the water fund is presented in Table 16-3. Note that all the projected values are in 2024-25 dollars and will require indexing for CPI for the future years. More detailed financial output statements are presented in Appendix F.



Table 16-3: Projected Financial Results – Water supply

2023/24 (\$'000)	Reveni	ue and Exp	enses	Cap Transa			Fina	ncial Posi	tion		Sy	stem Asse	ts	
Financial Year	Total Revenue	Total Expenses	Operating Result (Before Grants)	Acquisition of Assets	Principal Loan Payments	Cash and Investments	Borrowings	Total Assets	Total Liabilities	Net Assets Committed	Current Replacement Cost	Less: Accumulated Depreciation	Written Down Current Cost	Typical Residential Bills
2023/24	3,593	2,810	-280	1,663	0	254	0	31,987	0	31,987	39,926	8,797	31,129	1,030
2024/25	3,088	2,935	153	606	0	363	0	32,098	0	32,098	39,926	8,790	31,135	1,150
2025/26	3,470	3,130	340	1,103	13	651	487	32,861	487	32,374	40,286	8,651	31,635	1,275
2026/27	17,243	3,689	54	18,510	128	865	4,843	50,703	4,843	45,860	58,599	9,304	49,296	1,325
2027/28	11,784	3,861	-118	11,015	184	525	6,495	60,408	6,495	53,913	69,365	10,047	59,318	1,325
2028/29	3,790	3,839	-49	249	188	987	6,087	60,044	6,087	53,957	69,365	10,791	58,574	1,325
2029/30	3,847	3,867	-20	249	194	1,455	5,687	59,658	5,687	53,971	69,365	11,535	57,830	1,325
2030/31	3,905	3,860	45	249	200	1,967	5,295	59,283	5,295	53,988	69,364	12,278	57,087	1,325
2031/32	3,962	3,822	140	295	205	2,505	4,911	58,947	4,911	54,036	69,365	12,976	56,389	1,325
2032/33	4,004	3,861	143	775	213	2,541	4,532	58,697	4,532	54,165	69,365	13,194	56,171	1,325
2033/34	4,057	3,841	216	150	218	3,267	4,161	58,312	4,161	54,151	69,365	14,037	55,328	1,325
2034/35	4,114	3,840	274	240	224	3,932	3,796	57,942	3,796	54,146	69,365	14,790	54,575	1,325
2035/36	4,172	3,848	324	225	232	4,631	3,436	57,550	3,436	54,114	69,365	15,559	53,806	1,325
2036/37	4,228	3,843	385	220	238	5,367	3,082	57,149	3,082	54,067	69,365	16,332	53,033	1,325
2037/38	4,178	3,835	343	150	245	6,102	2,733	56,645	2,733	53,912	69,365	17,176	52,189	1,325
2038/39	4,067	3,891	177	5,664	252	1,196	2,388	58,190	2,388	55,802	74,665	17,876	56,789	1,325
2039/40	4,038	3,960	78	2,248	285	766	3,022	59,077	3,022	56,055	76,665	18,719	57,946	1,325
2040/41	4,051	3,913	138	520	294	1,130	2,626	58,696	2,626	56,070	76,665	19,289	57,376	1,325
2041/42	4,075	4,001	74	150	303	1,779	2,234	58,085	2,234	55,851	76,665	20,230	56,435	1,325
2042/43	4,070	4,023	47	170	312	2,351	1,847	57,429	1,847	55,582	76,665	21,151	55,515	1,325
2043/44	4,085	3,961	124	150	321	2,991	1,463	56,769	1,463	55,306	76,665	22,091	54,574	1,325
2044/45	4,098	3,951	147	233	331	3,539	1,082	56,128	1,082	55,046	76,665	22,948	53,717	1,325
2045/46	4,112	3,901	211	150	319	4,228	727	55,453	727	54,726	76,665	23,888	52,777	1,325
2046/47	4,116	3,866	250	760	121	4,521	582	55,188	582	54,606	76,665	24,218	52,447	1,325
2047/48	4,131	3,920	212	299	32	5,315	530	54,676	530	54,146	76,665	25,009	51,656	1,325
2048/49	4,141	3,909	231	456	33	5,944	479	54,229	479	53,750	76,665	25,643	51,022	1,325
2049/50	4,160	3,887	273	150	34	6,898	428	53,594	428	53,166	76,665	26,583	50,082	1,325
2050/51	4,171	3,882	289	298	35	7,688	379	53,018	379	52,639	76,665	27,376	49,290	1,325
2051/52	4,184	3,856	329	225	36	8,562	330	52,384	330	52,054	76,665	28,241	48,425	1,325
2052/53	4,197	3,878	319	150	38	9,470	281	51,668	281	51,387	76,665	29,181	47,485	1,325

16.4.2 Sensitivity of financial projections – Water supply

Following sensitivities of the water fund financial model forecasts for the preferred strategy were analysed:

- No grant/ subsidy for the WTP upgrade program
- 30% increase to cost estimates of all planned capital works
- Interest rates for new loans are at 9% p.a. instead of default 6.5% p.a.

The impacts of these variables on the water supply TRB forecasts, borrowing outstandings and cash levels for water fund are summarised in the following figures.

The sensitivity analysis demonstrates that the model forecast TRBs are sensitive to all of the above parameters as shown in the following sensitivity analysis graphs.



In particular, in a no grant/ subsidy for the WTP upgrade scenario, the planned upgrade works will need to be fully funded by new loans to the tune of \$30 Million. The huge increase in TRB and the borrowing outstandings as shown in the following graphs demonstrate the impacts due to the additional revenue required to servicing this loan.

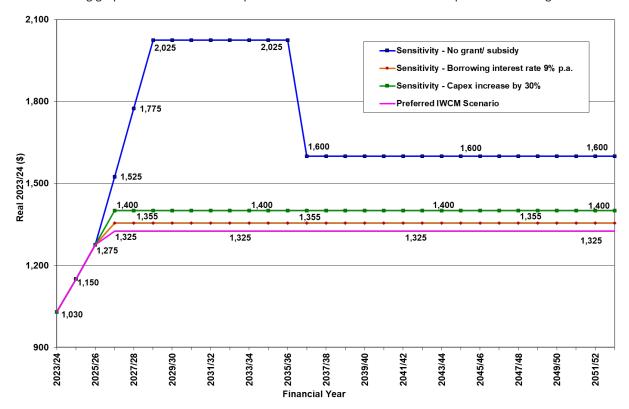


Figure 16-4: Sensitivity of TRB forecasts – Water supply

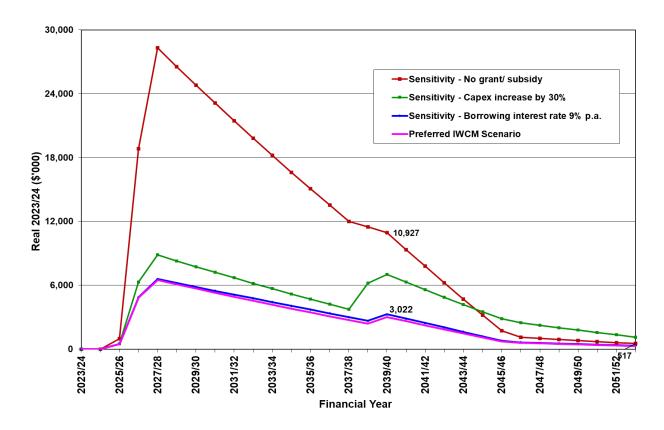




Figure 16-5: Sensitivity of Borrowing outstandings – Water supply

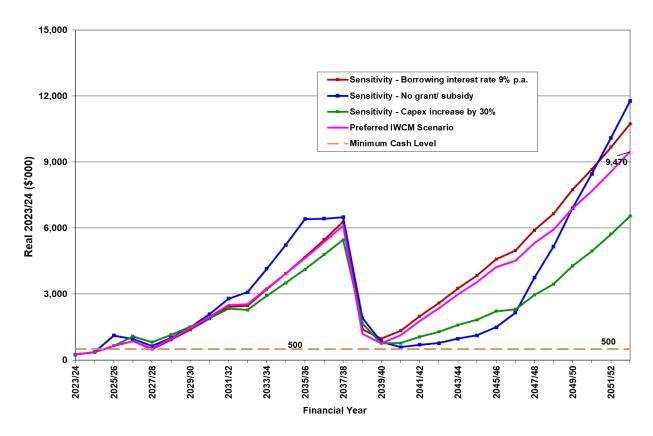


Figure 16-6: Sensitivity of Cash & Investments – Water supply

16.5 Financial model outcomes – Sewerage

16.5.1 Projected financial position

All costs and revenues in the input data and the model outcomes are in 2023-24 dollars unless stated otherwise, and CPI should be applied annually for the forecast years. The financial projections should be reviewed annually with respect to material changes to the proposed capital works program and/or to any of the underlying assumptions.

The preferred IWCM strategy of Council's sewer fund financial model has not considered any government grants or subsidies for any of the planned capital works during the 30-year forecast period.

Typical residential sewerage bills based on the annual sewerage access charges for the residential customers adopted by Council for the following years have been used in the model.

- TRB for 2023-24: \$702 p.a.
- TRB for 2024-25: \$715 p.a.
- TRB for 2025-26: \$715 p.a.

Accordingly, the Typical Residential Bill (TRB) forecasts for the customers for the next 30 years are presented in Figure 16-7 below. The financial model demonstrates that the 2025-26 typical residential sewerage access charges of \$715 p.a. (\$761 p.a. in 2025-26 dollars) can be maintained at that level for all the remaining forecast period (i.e. increases in line with CPI only).

Council's water fund had no outstanding borrowing as of 30 June 2025. The model forecasts demonstrate that with the recommended price path, no new loans will be required fund any of the planned capital works during the 30-year forecast period.



The forecast levels of TRBs is sufficient to maintain liquidity with a minimum level of cash and investment of \$500 K in the sewer fund throughout the forecast period. The levels of cash and borrowing outstandings during the forecast period are presented in Figure 16-8.

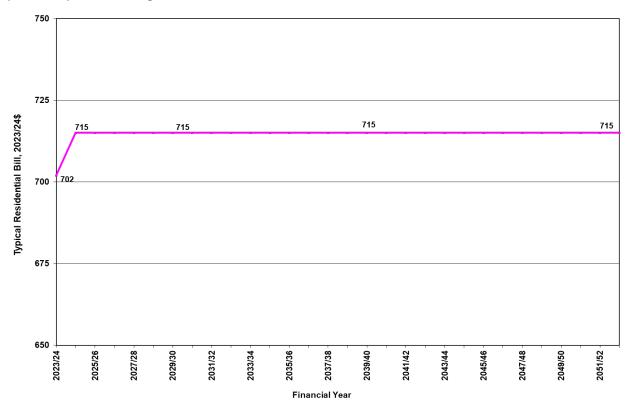


Figure 16-7: Typical Residential Bill - Sewerage

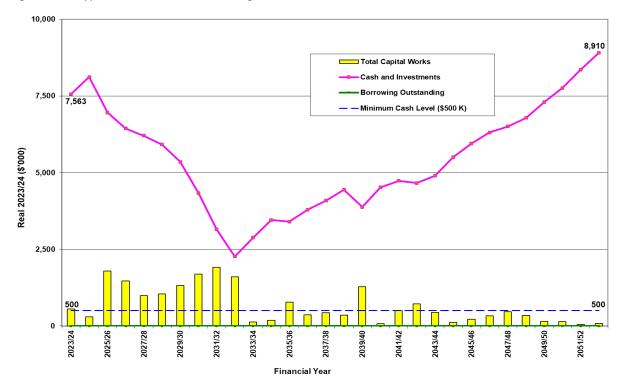


Figure 16-8: Cash and borrowing outstandings projections – Sewerage



Projected financial results for the water fund is presented in Table 16-4. Note that all the projected values are in 2024-25 dollars and will require indexing for CPI for the future years. More detailed financial output statements are presented in Appendix F.

Table 16-4: Projected Financial Results – Sewerage

2023/24 (\$'000)	Revenu	ue and Exp	enses	Cap Transa			Fina	ncial Posi	tion		Sy	stem Asse	ts	
Financial Year	Total Revenue	Total Expenses	Operating Result (Before Grants)	Acquisition of Assets	Principal Loan Payments	Cash and Investments	Borrowings	Total Assets	Total Liabilities	Net Assets Committed	Current Replacement Cost	Less: Accumulated Depreciation	Written Down Current Cost	Typical Residential Bills
2023/24	2,086	1,482	604	554	0	7,563	0	37,834	0	37,834	38,290	8,415	29,875	702
2024/25	2,159	1,475	684	300	0	8,118	0	38,248	0	38,248	38,545	8,815	29,729	715
2025/26	2,153	1,689	464	1,788	0	6,960	0	38,424	0	38,424	39,856	8,798	31,058	715
2026/27	2,307	1,568	739	1,472	0	6,440	0	38,913	0	38,913	40,582	8,520	32,062	715
2027/28	2,110	1,589	521	993	0	6,206	0	39,203	0	39,203	41,048	8,466	32,582	715
2028/29	2,109	1,605	504	1,044	0	5,918	0	39,483	0	39,483	41,742	8,595	33,147	715
2029/30	2,100	1,613	487	1,323	0	5,355	0	39,757	0	39,757	42,663	8,684	33,979	715
2030/31	2,078	1,717	361	1,686	0	4,334	0	39,922	0	39,922	43,773	8,611	35,162	715
2031/32	2,047	1,673	374	1,911	0	3,149	0	40,135	0	40,135	44,933	8,376	36,557	715
2032/33	2,021	1,684	337	1,606	0	2,271	0	40,351	0	40,351	44,958	7,312	37,646	715
2033/34	2,041	1,726	315	126	0	2,881	0	40,574	0	40,574	44,958	7,702	37,256	715
2034/35	2,076	1,712	364	187	0	3,459	0	40,826	0	40,826	44,958	8,032	36,926	715
2035/36	2,093	1,758	335	773	0	3,402	0	41,029	0	41,029	44,958	7,776	37,182	715
2036/37	2,117	1,754	363	360	0	3,790	0	41,263	0	41,263	45,189	8,165	37,023	715
2037/38	2,091	1,741	350	430	0	4,085	0	41,470	0	41,470	45,202	8,267	36,935	715
2038/39	2,102	1,754	349	353	0	4,446	0	41,665	0	41,665	45,202	8,433	36,768	715
2039/40	2,092	1,749	343	1,274	0	3,882	0	41,842	0	41,842	46,426	8,917	37,509	715
2040/41	2,104	1,781	323	70	0	4,521	0	42,019	0	42,019	46,426	9,381	37,046	715
2041/42	2,111	1,765	346	499	0	4,736	0	42,197	0	42,197	46,651	9,643	37,008	715
2042/43	2,098	1,812	286	723	0	4,661	0	42,308	0	42,308	46,657	9,463	37,194	715
2043/44	2,100	1,781	319	443	0	4,901	0	42,454	0	42,454	46,663	9,563	37,100	715
2044/45	2,111	1,745	366	113	0	5,510	0	42,638	0	42,638	46,663	9,988	36,676	715
2045/46	2,118	1,797	320	214	0	5,952	0	42,757	0	42,757	46,664	10,311	36,352	715
2046/47	2,123	1,756	366	327	0	6,315	0	42,907	0	42,907	46,888	10,750	36,139	715
2047/48	2,123	1,772	350	469	0	6,508	0	43,028	0	43,028	46,894	10,827	36,067	715
2048/49	2,125	1,807	318	346	0	6,785	0	43,111	0	43,111	46,900	11,027	35,873	715
2049/50	2,132	1,769	363	146	0	7,297	0	43,229	0	43,229	46,900	11,421	35,479	715
2050/51	2,137	1,810	327	141	0	7,761	0	43,294	0	43,294	46,900	11,821	35,079	715
2051/52	2,144	1,761	383	50	0	8,357	0	43,399	0	43,399	46,900	12,311	34,589	715
2052/53	2,150	1,760	390	79	0	8,910	0	43,492	0	43,492	46,900	12,772	34,128	715

16.5.2 Sensitivity of financial projections – Sewerage

As no grant/ subsidy or new loans are forecast for the sewer fund financial model, only one sensitivity of the model forecasts, namely, for a 30% increase to the estimated costs of all planned capital works was analysed. The impacts of this variable on the sewerage TRB forecasts, borrowing outstandings and cash levels for sewer fund are summarised in the following figures.

The sensitivity analysis demonstrates that the model forecast TRBs are sensitive to increase in estimated costs of the major capital projects that will required TRB increases from 202627 onwards.



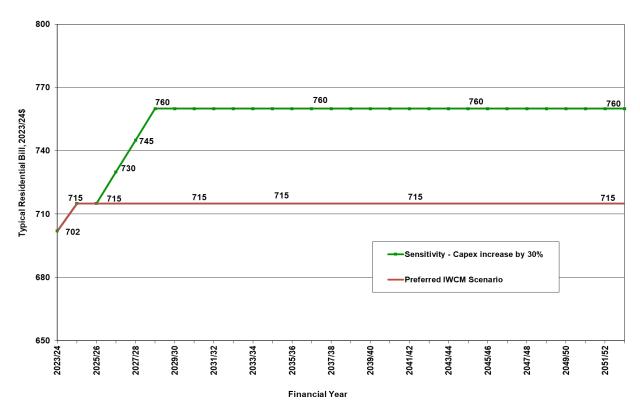


Figure 16-9: Sensitivity of TRB forecasts – Sewerage

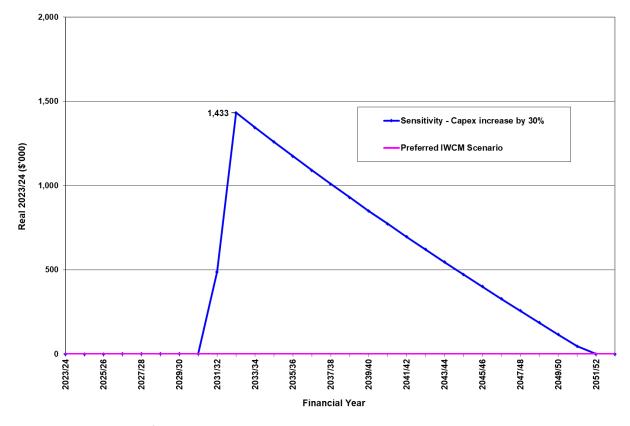


Figure 16-10: Sensitivity of Borrowing outstandings – Sewerage



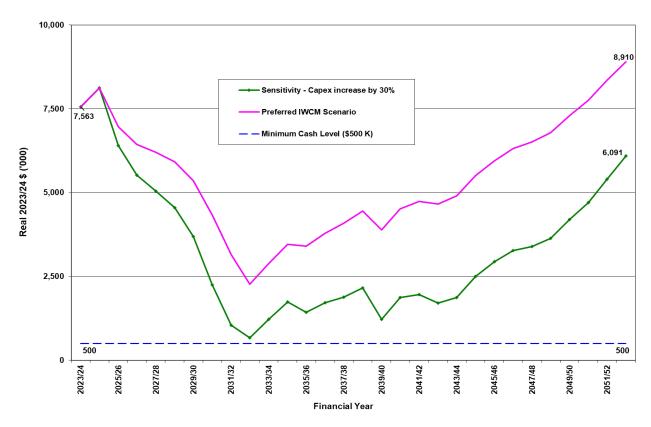


Figure 16-11: Sensitivity of Cash and Investments – Sewerage



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Appendix A Present value cost analysis

- A.1 Scenario 1 water supply
- A.2 Scenario 1 sewerage
- A.3 Scenario 2 water supply
- A.4 Scenario 2 sewerage

				ī																													
Narro Water			Council - Scenario 1																														
		Growth	DESCRIPTION	AMT	PRESE	ENT WORTH	(\$'000)	All costs in	\$'000																								
	%	%		\$'000	4%		10%			2027 2	028 202	29 203	0 2031	2032	2033	2034 203	35 2036	2037	2038	2039 20	40 2041	2042	2043	2044 2	2045 20	046 204	47 204	48 2049	9 2050	2051	2052	2053	2054 2055
1.0			CAPITAL COSTS																														
4.4	90%	400/	Drought reliability of the water supply - supplement existing source with water from Macquarie River																														
1.1	90%	10%	Raw water pumping station, intake and pipeline to water treatment pla	7,300	4,053	2,646	1.748	0	0	0	0	0	0 0	0	0	0	0 () 0	0	0 7.3	00 0	0	0	0	0	0	0	0 (0 0) 0	0	0	0 0
1.2	90%	10%	High risk of chlorine sensitive and chlorine resistant pathogens	7,300	4,000	2,040	1,740	U	U	U	U	· ·	0 0	U	U	U	0 (, 0	U	0 7,0	00 0	U	U	U	U	U	U	0 (0 (, 0			0 0
	/-	1070	Upgrade existing temporary plan	28,720	28,720	28,720	28,720	28,720		0	0	0	0 0	0	0	0	0 (0 0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
1.3	100%	0%	Non-revenue water																														
			Community education program, water loss management plan, appliance replaceme																	_							_						
			rebate TOTAL CAPITAL COST (including contingency, SID & PM & CM)	150 36,170		_	124 30,592	0	50 50	50 50	50 50	•	0 0	0	0	0	0 (0	0	0 0 7.3	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
				36,170	32,912	31,497	30,592	28,720	50	50	50	U	0 0	U	U	U	0 () 0	U	U 1,3	00 0	U	U	U	U	U	U	0 (0 (, ,			0 0
2.0			OPERATION AND MAINTENANCE COSTS																														
2.1	90%	109/	Drought reliability of the water supply - supplement existing source with water from Macquarie River																														
2.1	30 /0	10 /6	Raw water pumping station, intake and pipeline to water treatment pla	1,193	491	262	145	0	0	0	0	0	0 0	0	0	0	0 () 0	0	0	0 79	79	79	80	80	80 8	80 8	30 80	0 80) 80	80	80	80 80
2.2	90%	10%		.,																													
			Upgrade existing temporary plan	11,120		4,538	3,429		350	352	354 35	57 35	9 361	363	364	366 36	369	371	373	374 3	76 376	377	377	378	378 3	378 37	78 37	78 378	8 378	378	378	378	378 378
			TOTAL OPERATION & MAINTENANCE COSTS	12,313	6,851	4,800	3,574	0	350	352	354 3	57 35	9 361	363	364	366 36	68 369	371	373	374 3	76 456	456	457	457	457 4	457 4!	57 4	57 45	7 457	457	457	457	457 457
3.0			AVOIDED COSTS																														
			None	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
			TOTAL AVOIDED COSTS	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
			TOTAL PRESENT VALUE	19,763	39,763	36,297	34,166	28,720	400	402	404 3	57 35	9 361	363	364	366 36	68 369	371	373	374 7,6	76 456	456	457	457	457 4	1 57 4:	57 4	57 45	7 457	457	457	457	457 457
			Average demand					662	675	688	700 7	13 72	6 735	744	752	761 77	70 779	788	796	805 8	14 816	818	821	823	825 8	325 82	25 82	25 82	5 825	825	825	825	825 825
Sewer																																	
ITEM	ILOS	Growth %	DESCRIPTION	AMT		NT WORTH	. ,			0007 0	.000 000	000	0.004	2022	0000	0004 000		0007	0000	2020 20	40 0044	20.40	00.40	2044	00.45		47 00.	40 004		0054	2050	2052	2054 2051
1.0	%	%	CAPITAL COSTS	\$'000	4%	7%	10%	2025	2026	2021 2	028 202	29 203	0 2031	2032	2033	2034 203	35 2036	2037	2038	2039 20	40 2041	2042	2043	2044 2	2045 20	J46 ZU ²	47 202	48 204	9 2050	2051	2052	2053	2054 2055
1.0	100%	0%																															
	,	- 70	provide new pumps in SPS 1 with pumping rate upgraded to 68 L/s and relate																														
	100%	0%	switchboard upgrades	430			430	430	0	0	0	0	0 0	0	0	0	0 (0 0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
	0%		Increase the storage capacity by the construction of a new wet we	1,000	555	362	239		0	0	0	0	0 0	0	0	0	0 (0	0	0 1,0	00												
1.2	100%	0%	Surcharging in Catchment 2	200	445	70	50		•		0	0	0 0	0	0	0	0 (_	0 0	00 0	0	0	0	0	0	^	0	0 0			0	0 0
1.3	100%	0%	upgrade the SPS 2 pumping rate to at least 25 L/s with associated switchboard upgrad Performance and reliability of Narromine STP	200	115	78	53	0	U		U	U	0 0	U	U	U	0 (, 0	U	0 2	00 0	U	U	U	U	U	U	0 (υ ι	, ,	U	U	0 0
1.5	100 /6	0 /8	Screening system at STP inlet works	350	350	350	350	350	0	0	0	0	0 0	0	0	0	0 () 0	0	0	0 0	0	0	0	0	0	0	0 (0 0) 0	0	0	0 (
			Septage receival system at the STF	500		500	500	500	0	0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0	0	0	0	0 (0 0) 0	0	0	0 (
			De-sludge primary oxidation pon	350	337	327	318	0	350	0	0	0	0 0	0	0	0	0 (0 0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
1.4	100%	0%	Trangie sewerage scheme																														
			Underake investigations recommended in the GHD repor	100	100	100	100	100		0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0	0	0	0	0 (0 0) 0	0	0	0 0
1.5	100%	0%	Unserviced area Sewering of Davis Drive - gavity reticulation	550	452	392	342	\$0	\$0	\$0	\$0 5	\$0 55	0																				
			Sewering of Davis Drive - gavity rendulation Sewering of Davis Drive - transfer pumping station	180		128	112	φυ 0	φυ 0	φυ 0	φυ . 0	0 18		0	0	0	0 () ()	0	0	0 0	0	0	0	0	0	0	0 (0 0) 0	0	0	0 0
			TOTAL CAPITAL COST (including 30% contingency, 10% SID & 10% PM & CM)	3,660			2,439		350	0	0	0 73		0	0	0	0 () 0	0	0 1,2	00 0	0	Ō	0	0	0	0	0	0 0) 0	0	0	0 0
2.0			OPERATION AND MAINTENANCE COSTS																													=	
2.0	100%	0%	Reduce overflows at SPS1																														
	,3	1	provide new pumps in SPS 1 with pumping rate upgraded to 68 L/s and related																														
1			switchboard upgrades (O&M costs assumed to be similar as current pumps as this is										_																_				
			just a replacement with a slight increase in capacity)	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
			Increase the storage capacity by the construction of a new wet well replacing th existing well.	0	0		0	0	0	0	0	0	0 0	0	0	0	0 (0	0	0 0	0	0	0	0	0	0	0 (0 0		0	0	0 (
2.2	100%	0%	Surcharging in Catchment 2	U			J	U				3		U	· ·		J (, ,			5 0	U	J				,	,		. 0		Ü	J 0
			upgrade the SPS 2 pumping rate to at least 25 L/s with associated switchboard upgrad	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 (0	0	0	0 0	0	0	0	0	0	0	0 (0 0	0	0	0	0 0
2.3	100%	0%	Performance and reliability of Narromine STP																														
			Screening system at STP inlet work:	368		135	97	0	7	7	7	7	7 11	11	11	11	11 14	14	14	14	14 14	14	14	14	14	14	14	14 14	4 14	14	14	14	14 14
	4000/	60/	Septage receival system at the STF Unserviced area	75	43	31	24	0	3	3	3	3	3 3	3	3	3	3 3	3	3	3	3 3	3	3	3	3	3	3	3 ;	3 3	3	3	3	3 3
2.5	100%	0%	Sewering of Davis Drive - gavity reticulation	57	20	10	12	0	0	0	0	0	0 23	2.3	2.3	2.3 2	2.3 2.3	3 2.3	2.3	2.3	2.3 2.3	2.3	2.3	2.3	2.3	23 2	3 3	3 3	3 23	3 2.3	2.3	2.3	2.3 2.3
1			Sewering of Davis Drive - gavity rendulation Sewering of Davis Drive - pumped sewerage systen	151	78	50	34	0	0	0	0	0	0 6	6	6	6	6 6	5 6	6	6	6 6	6	6	6	6	6	6	6 6	6 6	2.3	6	6	6 f
			TOTAL OPERATION & MAINTENANCE COSTS	651			168	0	10	10	10	10 1	0 21	21	21	21 2	21 25	5 25	25	25	25 25	25	25	25	25	25	25 2	25 2	5 25	5 25	25	25	25 25
3.0			AVOIDED COSTS																														
3.0			ATOIDED GOOTS	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0 () 0	0	0	0 0	0	0	0	0	0	0	0 (0 0) 0	0	0	0 0
				, i			·	-	-	-	-	-	. •		-	-			-	-	. •	,	-	-	-		-						

Narromine Shire Council - Scenario 2

ITEM IL	OS G	rowth	DESCRIPTION	AMT	PRESEN	IT WORTH	(\$'000)	All costs i	n \$'000																												
Ç	%	%		\$'000	4%	7%	10%	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
1.0			CAPITAL COSTS																																		
1.1 90	0%		Drought reliability of the water supply - Continue to use additional bores and augment capacity of the borefield to meet future demand																																		
			Construct and equip 3 additional bores (\$1.5M per bore	4,500	2,499	1,631	1,077	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 4	4,500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Approx 20 km transfer pipeline (250mm HDPE/poly	10,000	5,553	3,624	2,394	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 10	0,000														
			Intermediate pumping station	2,000	1,111	725	479	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 2	2,000														
			Power supply	3,500	1,943	1,269	838	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 :	3,500														
1.2 90	0%	10%	High risk of chlorine sensitive and chlorine resistant pathogens																																		
			Conventional treatment plant with sedimentation tank and mechanical dewateri	26,970	26,970	26,970	26,970	26,970		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.3 10	00%	0%	Non-revenue water																																		
			Community education program, water loss management plan, appliance replaceme rebate	150	139	131	124	0	50	50	50		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			TOTAL CAPITAL COST (including contingency, SID & PM & CM)	47,120	38,214	34,350	31,882	26,970	50	50	50	0	0	0	0	0	0	0	0	0	0	0 20	0,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0			OPERATION AND MAINTENANCE COSTS																																		
2.1 9	0%		Drought reliability of the water supply - supplement existing source with water from Macquarie River																																		
			Additional bores Pipeline	180 50	96 27	61 17	39 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180 50	0	0	0	0	0	0	0	0	0	0	0	0	0
			Intermediate pumping station	40	21	14	9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0
2.2 90	0%	10%	High risk of chlorine sensitive and chlorine resistant pathogens																																		
•			Conventional treatment plant with sedimentation tank and mechanical dewateri	20,447	11,729	8,388	6,352	0	658	660	663	666	669	671	672	674	676	678	680	682	684	686	687	688	688	689	689	690	690	690	690	690	690	690	690	690	690
			TOTAL OPERATION & MAINTENANCE COSTS	20,717	11,874	8,479	6,411	0	658	660	663	666	669	671	672	674	676	678	680	682	684	686	687	958	688	689	689	690	690	690	690	690	690	690	690	690	690
3.0			AVOIDED COSTS																																		
			None	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			TOTAL AVOIDED COSTS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			TOTAL PRESENT VALUE					26,970	708	710	713				672	674	676	678		682		686 20													690	690	690

Average deman

TOTAL AVOIDED COSTS

TOTAL PRESENT VALUE

Sewerage	9																																				
ITEM IL	.os	Growth	DESCRIPTION	AMT	PRESE	NT WORTH	l (\$'000)	All costs	in \$'000																												
	%	%		\$'000	4%	7%	10%	2025	2026	2027	2028	2029	2030 2	2031 2	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043 2	044 2	2045 2	2046 2	2047	2048 2	049 2	050 2	051 2	052 20	53 20	54 20
1.0			CAPITAL COSTS																																		
1.1 10	00%	0%	Reduce overflows at SPS1																																		
			provide new pumps in SPS 1 with pumping rate upgraded to 68 L/s and relate																																		
	00%		switchboard upgrades	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Increase the storage capacity by the construction of a new wet we	1,000	1,000	1,000	1,000	1,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
1.2 10	00%	0%	Surcharging in Catchment 2																																		
			upgrade the SPS 2 pumping rate to at least 25 L/s with associated switchboard upgrad	200	115	78	53	0	0		0	0	0	0	0	0	0	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.3 10	00%	0%	Performance and reliability of Narromine STP																																		
			Screening system at STP inlet works	350	288	250	217	0	0	0	0	0	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Septage receival system at the STF	500	411	356	310	0	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			De-sludge primary oxidation pond	350	337	327	318	0	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.4 10	00%	0%	Trangie sewerage scheme																																		
			Underake investigations recommended in the GHD repor	100	100	100	100	100		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.5 10	00%	0%	Unserviced area																																		
			Sewering of Davis Drive - Low pressure sewer system	600	493	428	373	\$0	\$0	\$0	\$0	\$0	600																								
			TOTAL CAPITAL COST (including 30% contingency, 10% SID & 10% PM & CM)	3,100	2,739	2,533	2,366	1,100	350	0	0	0 1	1,450	0	0	0	0	0	0	0	0	0	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.0			OPERATION AND MAINTENANCE COSTS																																=	_	=
	00%		Reduce overflows at SPS1																																		
2.1	JU 76	0%	provide new pumps in SPS 1 with pumping rate upgraded to 68 L/s and related																																		
			switchboard upgrades (O&M costs assumed to be similar as current pumps as this is																																		
			just a replacement with a slight increase in capacity)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Increase the storage capacity by the construction of a new wet well replacing th	ŭ	ŭ	Ů	Ŭ	ŭ	·	ŭ	ŭ	·	Ū	·	ŭ	ŭ	Ü	ŭ	ŭ	ŭ	Ū	·	ŭ	·	·	Ü	ŭ	Ū	Ū	ŭ	Ū	Ū	Ü	ŭ	Ü	Ü	ŭ
			existing well.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.2 10	00%	0%	Surcharging in Catchment 2																																		
			upgrade the SPS 2 pumping rate to at least 25 L/s with associated switchboard upgrad	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.3 10	00%	0%	Performance and reliability of Narromine STP																																		
			Screening system at STP inlet works	252	127	80	53	0	0	0	0	0	0	0	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
			Septage receival system at the STF	60	30	19	13	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2.5 10	00%	0%	Unserviced area																																		
			Sewering of Davis Drive - pumped sewerage systen	475	244	158	107	0	0	0	0	0	0	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
			TOTAL OPERATION & MAINTENANCE COSTS	787	401	257	173	0	0	Ō	0	0	0	19	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32



Appendix B 30-year Capital Works Programs – Water Supply

- B.1 30-year Water capital works plan Baseline
- B.2 30-year Water capital works plan Scenario 1
- B.3 30-year Water capital works plan Scenario 2

Water Supply - 30-Year Capital Works Program - Baseline

Water Safety Equipment Item

GRAND TOTAL

Expected Gov. Grant/ Subsidy

Water Valve Item

100%

100%

19,813 1,063

- 11,250 7,500

Current Year 2023 /24 **ALL COSTS IN 2023/24 \$'000** 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 ILOS GROWTH RENEW Total 2023/24 2024/25 2025/26 2026/27 2027/28 2028/29 2029/30 2030/31 2031/32 2032/33 2033/34 2034/35 2035/36 2036/37 2037/38 2038/39 2039/40 2040/41 2041/42 2042/43 2043/44 2044/45 2045/46 2046/47 2047/48 2048/49 2049/50 2050/51 2051/52 2052/53 ITEMS A - COUNCIL LTFP - AMP BUDGET <u>196</u> <u>196</u> <u>196</u> <u>196</u> <u>196</u> <u>196</u> <u>196</u> <u>196</u> <u>150</u> **Network Mains Replacement** 100% 150 150 150 150 318 53 53 53 53 53 Automated Meters -Capital Replacement Program 100% Harris Street Trangie main replacment and relocation of Treated Water Standpipe 100% 66 318 547 Trangie Drinking Water Reservoir Rehabilitation 100% 100% 500 Telemetry Capital Renewal Program linor Renewal 26 Water Quality Online Monitoring Systems 100% 26 Telemetry High End Server, Drives and Software 100% 79% 100% Pressure Management Booster Northern Zone DMA 100% Concept and Detailed Design WTP 75% 750 0% 100% Concept and Detailed Design Reservoir and Rising Mains Concept and Detailed Design River Offtake for Raw Water to 0% 100% Water Treatment Plant New 75% 100% 25,000 15,000 10,000 6,000 0% 100% 3,000 3,000 Reservoir and Rising Mains River Offtake for Raw Water to WTP 0% 100% 3,500 1,500 2,000 Major capital projects administraiton 290 100% **B-RENEWALS** Based on asset register Narromine Bore 3 215 100 25 75 100% 362 Bore 6 100% 149 193 Bore 7 100% Bore 8 100% 120 100 Bore 9 100% Duffy St Res & WTP 472 410 100% 22 Narromine High Lift PS & WTP 100% Nymagee Street Res 100% 18 Raw Main 100% 43 Water Main 100% Water Meter 100% Tomingley 50 Reservoir 100% WTP 320 35 100% Trangie Bore 1 100% 109 115 105 Bore 2 100% Bore 3 123 100% 113 Temoin st Res 100% Shared Water Control System Item 100% Water Monitoring Item 100%

45,780 1,671 606 1,103 15,486 10,289 249 249 249 295 775 150 240 225 220 150 4,864 5,248 520 150 170 150 233 150 760 299 456 150 298 225 150

Water Supply - 30-Year Capital Works Program - Scenario 1

Expected Gov. Grant/ Subsidy

Current Year 2023 /24

22,603 1,063 -

- 13,500 8,040 -

ALL COSTS IN 2023/24 \$'000 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 GRANT ILOS GROWTH RENEW Total 2023/24 2024/25 2025/26 2026/27 2027/28 2028/29 2029/30 2030/31 2031/32 2032/33 2033/34 2034/35 2035/36 2036/37 2037/38 2038/39 2039/40 2040/41 2041/42 2042/43 2043/44 2044/45 2045/46 2046/47 2047/48 2048/49 2049/50 2050/51 2051/52 2052/53 ITEMS **IWCM SCENARIO 1** 0% 100% Raw water PS, intake and pipeline to WTP 5,300 2,000 18,000 10,720 75% 100% 28,720 Upgrade existing temporary WTP Community education etc. - Operating exp. A - COUNCIL LTFP - AMP BUDGET 100% Network Mains Replacement Automated Meters -Capital Replacement Program 100% Harris Street Trangie main replacment and relocation of Treated Water Standpipe 100% 66 318 547 Trangie Drinking Water Reservoir Rehabilitation 100% 100% 500 Telemetry Capital Renewal Program linor Renewal 26 26 Water Quality Online Monitoring Systems 100% 26 100% Telemetry High End Server, Drives and Software Pressure Management Booster Northern Zone DMA 75% 100% Concept and Detailed Design WTP 750 Concept and Detailed Design Reservoir and Rising Ma 0% 100% 0% 100% Concept and Detailed Design River Offtake for Raw V 75% 100% 75% 100% 75% 100% Major capital projects administraiton 100% 314 B - RENEWALS Based on asset register Narromine Bore 3 100 25 75 100% Bore 6 100% 193 149 Bore 7 100% Bore 8 100% 100 Bore 9 100% Duffy St Res & WTP 410 100% 22 Narromine High Lift PS & WTP 100% Nymagee Street Res 100% 18 Raw Main 100% 43 Water Main 100% Water Meter 100% Tomingley Reservoir 100% WTP 100% 35 Trangie Bore 1 100% Bore 2 100% Bore 3 100% 113 Temoin st Res 100% Shared Water Control System Item 100% Water Monitoring Item 100% Water Safety Equipment Item 100% 98 Water Valve Item 100% **47,322** 1,663 606 1,103 18,510 11,015 249 249 249 295 775 150 240 225 220 150 5,664 2,248 520 150 170 150 233 150 760 299 456 150 298 225 150 **GRAND TOTAL**

Narromine Shire Council - 30-year Capital Works Plan Water Supply - 30-Year Capital Works Program - Scenario 2

Current Year 2023 /24

			ALL CO		023/24 \$'000 2 3	4	5	6	7 8	9	10	11 12	13	14	15	16	17 1	18 19	20	21	22	23	24	25 2	26 2	27 28	29	30
ITEMS	GRANT	ILOS GROWTH RI	ENEW Total	2023/24	2024/25 2025/2	6 2026/2	7 2027/28 2	2028/29 202	9/30 2030/3	1 2031/32 2	032/33 203	33/34 2034/		2036/37 2	2037/38 20	38/39 203	39/40 204	0/41 2041/		2043/44 2								
IMOM SCENARIO S																												
IWCM SCENARIO 2 Construct and equip 3 additional bores (\$1.5M per bor	e) 0%	100%	4,50	0	3,0	00 1,5	20																					
Approx 20 km transfer pipeline (250mm HDPE/poly)	0%	100%	10,00		4,5																							
Intermediate pumping station	0%	100%	2,00		-1,-	1,5																						
Power supply	0%	100%	3,50			3,0																						
Conventional WTP with sedimtn tank and mech. dewa	ter 75%	100%	26,97		16,0																							
Community education etc Operating exp.																												
A - COUNCIL LTFP - AMP BUDGET Major Renewal																												
Network Mains Replacement			100% 4,96	0 196	196 1	96 1	96 196	196	196 19	196	196	150 1	50 150	150	150	150	150	150 1	50 150	150	150	150	150	150	150	150 1	50 150	15/
Automated Meters -Capital Replacement Program			100% 31			_	53	53	53 5	3 53	53																	
Harris Street Trangie main replacment and relocation of	Treated Water Star	ndpipe	100% 6	6	66																							
Trangie Drinking Water Reservoir Rehabilitation			100% 86	5	318 5	47																						
Telemetry Capital Renewal Program			100% 50	0							500																	
Minor Renewal			1000/		26					26	26																	
Water Quality Online Monitoring Systems Telemetry High End Sonyer, Drives and Software			100% 10	4 26 0 20						26 20	26																	
Telemetry High End Server, Drives and Software			100% 4	20						20																		
Major New	700/	1000/		7																								
Pressure Management Booster Northern Zone DMA Concept and Detailed Design WTP	79% 75%	100%	63 75																									
Concept and Detailed Design WTP Concept and Detailed Design Reservoir and Rising Mains		100%	73	0 730																								
Concept and Detailed Design River Offtake for Raw Water		100%		0																								
Water Treatment Plant New	75%	100%		0																								
Reservoir and Rising Mains	75%	100%		0																								
River Offtake for Raw Water to WTP	75%	100%		0																								
Major capital projects administraiton		100%	96	5 26	4	20 4	59 60																					
B - RENEWALS																												
Based on asset register																												
Narromine Bore 3			100% 21	5									15										100		25		75	
Bore 6			100% 21	2									13	20									100	149	193		/3	
Bore 7			100% 6	5									<mark>65</mark>	20										143	133			
Bore 8			100% 12	0										20									100					
Bore 9			100% 10	8										20											88			
Duffy St Res & WTP			100% 47	2									20						20		22		410					
Narromine High Lift PS & WTP			100%	0																								
Nymagee Street Res			100% 1	8																	18							
Raw Main			100%	<u>U</u>																	40							
Water Main Water Meter			100% 4	3																	43							
Tomingley			100%																									
Reservoir			100% 10	5									55					50										
WTP			100% 35															320									35	
Trangie																												
Bore 1			100% 10	9												109												
Bore 2			100% 11	5									10			105												
Bore 3			100% 12	3										10												1	13	
Temoin st Res			100%	0																								
Shared			1000/	0																								
Water Control System Item Water Monitoring Item			100%	0																								
Water Monitoring Item Water Safety Equipment Item			100%	0																								
Water Valve Item			100%	8													98											
GRAND TOTAL Expected Gov. Grant/ Subsi			58,48	3 1,655	606 24,6 - 12,00	53 22,6	25 1,809	249	249 24	9 295	775	150 2	40 225	220	150	364	248	520 1	50 170	150	233	150	760	299	456	150 2	98 225	150



Appendix C 30-year Capital Works Programs – Sewerage

- C.1 30-year Sewerage capital works plan Baseline
- C.2 30-year Sewerage capital works plan Scenario 1
- C.3 30-year Sewerage capital works plan Scenario 2

Sewerage - 30-Year Capital Works Program - Baseline

Current Year 2023 /24 - Latest - June 2025 changes by Council

						ALL GOO	1	2	3	4	5	6	7 8	9	10	11	12	13	14	15	16 1	17	18	19 2	0	21	22	23	24	25	26	27	28	29	30
ITEMS	GRANT	ILOS	GROWTH	RENEW	Check	Total	2023/24	2024/25 2	025/26 2	2026/27 20	027/28 20	28/29 202	9/30 203	0/31 2031/32	2032/33 2	2033/34 2	2034/35 2	035/36 20	036/37 20	37/38 203	38/39 203	9/40 20	40/41 20	41/42 204	2/43 20	43/44 2	044/45 2	2045/46 2	2046/47 2	047/48 2	2048/49 20	049/50 20	050/51 20	051/52 2	052/53
A - COUNCIL LTFP - AMP BUDGET																																			
Minor Renewal																																			J
Telemetry High End Server, Drives and Software				100%	100%	220	20	20	20	20	20	20	20	20 2	20	20																			,
Minor Capital Works				100%	100%	1,214	24	24	24	24	24	24	24	24 2	24	24	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Narromine pump replacement program				100%	100%	540			60	60	60	60	60	60 6	60	60																			,
Trangie pump replacement program				1009	100%	198			22	22	22	22	22	22 2	. 22	22																			,
Major Renewal																																			,
New Switch Boards - Narromine /4 Stations				1009	100%	440				220	220																								,
New Switch Boards - Trangie/8 Stations				100%	100%	240	240																												,
Narromine SPS 1 Upgrade - refurbishment				1009	100%	110				110																									,
Trangie SPS upgrade - refurbishment				100%	100%	120	60		60																										,
Generational Mass RTU/ Telemetry renewal				100%	100%	600									600																				,
Major Upgrades and Refurbishment				1009	100%	2,405					180	225	275	450 62	650																				,
Sewer Main Replacement - Relining Program				100%	100%	2,320			290	290)					290	290				290	290				290	290				,
CCTV inspection pre-relining		100%			100%	1,375		250				225		0 22.					225					225	0				225						,
Major New																																			,
Narromine Head of works and Tankered Waste Recieval	Station	100%			100%	720				360	360																								,
Treatment Plant - Desludging project		100%			100%	0																													,
Sewer Network Expansion (Design and Construction)		100%			100%	3,780				180	450	450	900	900 90																					,
Remediation of Old STP Site		100%			100%	60	60																												,
Non Destructive Excavation Vacuum Trailer (Plant)		100%			100%	140	140																												,
Narromine RV Dump Point Improvement (Subject to Gra	100%	100%			100%	180				180																									,
Major capaital projects administration		100%			100%	115	15	5	8	35	6				12				5	6	6										5	6	6		,
																																			,
																																			,
A - RENEWALS																																			,
Based on asset register																																			,
Narromine																																			,
Sewerage Treatment Plant				100%	100%	688											20	370						134				164							,
SPS 1 Nymagee Street West / Coles Lane				1009	100%	971																971													,
SPS 10 Nancy Bird Walton Dr				1009	100%	30																											30		,
SPS 2 Manildra Street				1009	100%	170															13			90					52				15		,
SPS 3 Third Avenue (South)				1009	100%	90											40		40														10		,
SPS 4 Narromine Aerodrome				100%	100%	46												10															36		,
SPS 5 Mitchell Highway Industrial Estate				1009	100%	37														37															,
SPS 6 Dandaloo Street / Commodore Crescent				1009	100%	60														20					40										,
SPS 7 Wattle Crescent				1009	100%	0																													,
SPS 8 Skypark Estate				1009	100%	40													40																,
SPS 9 Crossley Drive Sewer Pump Station				100%	100%	80														20						60									,
Trangie																																			,
Sewerage Treatment Plant				100%	100%	414												262												123					29
SPS 1 Mitchell Highway				1009	100%	205									205																				,
SPS 2 Mungery Street				100%	100%	140											77										63								,
SPS 3 Nicholas Street				100%	100%	68																	20									48			,
SPS 4 Allen Street / Poincare Street				100%	100%	145												60								37						48			,
Shared																																			,
Control System Item				100%	100%	21												21																	,
Monitoring Item				100%	100%	337																			337										,
Power Supply Item				100%	100%	0																													,
																																			,
GRAND TOTAL						18,319	559	299		4 - 44				476 1,87	4 - 00	126	187			423	359 1	021	70	499	747	427	442	214						50	

Sewerage - 30-Year Capital Works Program - Scenario 1

Current Year 2023 /24

ITEMS	CDANT ILOC	CROWTH	DENEW	Chaok	Total	2022/24 2	0024/25 20	25/26 202	6/27 202	7/20 2020/2	0 2020/24	0 2020/24	2024/22 1	2032/22 20	33/3/ 2024/3	5 2025/26	2036/27 2	037/38 2038/3	30 2020/40	2040/44	0041/42 204	2//2 20/	3/44 2044/	5 20/5//	6 2046/47	20/7//9 2	0/18/40 20	140/50 2054	V51 2054/5	/52 20F1
WCM SCENARIO 1	GRANT ILOS	GROWTH	KENEW	Cneck	ı otal	2023/24 2	.024/25 20	120120 202	.0/2/ 202	11/20 20/28/2	. 3 2029/30	0 2030/31	2031/32 2	2032/33 20	33/34 ZU34/3	J 2035/36	2030/3/ 2	USTISO 2038/3	o s 2039/40	2040/47 2	.041/42 204	zi43 ZU4	13/44 ZU44/4	13 2043/46	U ZU40/4/	ZU41148 Z	.040/49 20	149/30 2030	ກວາ ZUO1/5	JZ ZU5Z
	100%			1000/	430			430																						
SPS 1 - Pumping upgrade to reduce overflow	100%			100%				430											1000	.										
SPS 1 - New wet well to increase capacity				100%	1,000														1000											
SPS 2 - Pumping upgrade to reduce surcharging	100%			100%				250											200	J										
Narromine STP - Inlet screening system at STP	100%			100%	350			350																						
Narromine STP - Septage receival system at STP	100%			100%	500			500																						
Narromine STP - Desludge primary Oxi. Pond	100%			100%	350				350																					
Narromine - Sewering Davis Drive - Gravity retic	100%			100%	550							550																		
Narromine - Sewering Davis Drive - Transfer SPS	100%			100%	180							180																		
Trangie Scheme - Investigations recommended by GHD (Opex)	100%			100%	0																									
A - COUNCIL LTFP - AMP BUDGET																														
Minor Renewal																														
Telemetry High End Server, Drives and Software			100%	100%	220	20	20	20	20	20 2	20 2	.0 20	20	20	20															
Minor Capital Works			100%	100%	1,214	24	24	24	24	24 2	24 2	.4 24	24	24	24	50 50	50	50 !	50 50	50	50	50	50 5	50 50	0 50	50	50	50	50 5	50
Narromine pump replacement program			100%	100%	540			60	60	60 6	60 6	60	60	60	60															
Trangie pump replacement program			100%	100%	198			22	22	22 2	22 2	2 22	22	22	22															
Major Renewal																														
New Switch Boards - Narromine /4 Stations			100%	100%	440				220	220																				
New Switch Boards - Trangie/8 Stations			100%	100%	240	240																								
Narromine SPS 1 Upgrade - refurbishment			100%	100%	110				110																					
Trangie SPS upgrade - refurbishment			100%	100%	120	60		60	110																					
			100%		600	00		00						600																
Generational Mass RTU/ Telemetry renewal				100%	2.405					100 21	\r 27	VE 450	625	600																
Major Upgrades and Refurbishment			100%	100%	2,405			200		180 22	25 27	5 450	625	650				200 20	00			200	200			200	200			
Sewer Main Replacement - Relining Program			100%	100%	2,320			290	290			_	U					290 29	90			290	290			290	290			
CCTV inspection pre-relining	100%			100%	1,375		250			22	25	0	225				225				225	0			225					
Major New																														
Narromine Head of works and Tankered Waste Recieval Station	100%			100%	0																									
Treatmrent Plant - Desludging project	100%			100%	0																									
Sewer Network Expansion (Design and Construction)	100%			100%	3,230				180	450 45	50 90	0 350	900																	
Remediation of Old STP Site	100%			100%	60	60																								
Non Destructive Excavation Vacuum Trailer (Plant)	100%			100%	140	140																								
Narromine RV Dump Point Improvement (Subject to Grant)	100% 100%			100%	180				180																					
Major capaital projects administration	100%			100%	275	10	5	32	16	16 1	8 2	2 30	35	25			5	13	24	1		6	6			6	6			
A - RENEWALS																														
Based on asset register																														
Narromine																														
Sewerage Treatment Plant			100%	100%	688										2	.0 370					134			16	4					
SPS 1 Nymagee Street West / Coles Lane			100%	100%	0										_										•					
SPS 10 Nancy Bird Walton Dr			100%		30																								30	
SPS 2 Manildra Street			100%	100%	170														13		90				52				15	
SPS 3 Third Avenue (South)					00										4	0	40	•	10		90				52					
			100%	100%	40												40												10	
SPS 4 Narromine Aerodrome			100%	100%	40											10		27											36	
SPS 5 Mitchell Highway Industrial Estate			100%	100%	37													3/				40								
SPS 6 Dandaloo Street / Commodore Crescent			100%	100%	60													20				40								
SPS 7 Wattle Crescent			100%	100%	0																									
SPS 8 Skypark Estate			100%	100%	40												40													
SPS 9 Crossley Drive Sewer Pump Station			100%	100%	80													20					60							
rangie																														
Sewerage Treatment Plant			100%	100%	414											262										123				
SPS 1 Mitchell Highway			100%	100%	205									205																
SPS 2 Mungery Street			100%	100%	140										-	' 7							(53						
SPS 3 Nicholas Street			100%	100%	68															20								48		
SPS 4 Allen Street / Poincare Street			100%	100%	145											60							37					48		
Shared			100/0	23070												00												.5		
Control System Item			100%	100%	21											21														
					337											21						227								
Monitoring Item			100%	100%	337																	337								
Power Supply Item			100%	100%	U																									

Sewerage - 30-Year Capital Works Program - Scenario 2

Current Year 2023 /24

				ALLOO	1 1	2	3	4	5	6	7 8	9	10	11	12	13	14	15 10	17	18	19	20	21	22	23	24	25 2	26 27
ITEMS	GRANT ILOS	GROWTH REN	NEW C	heck Total	2023/24	2024/25	2025/26	2026/27	2027/28 2	028/29 202	29/30 2030/	31 2031/32	2032/33 2	2033/34 2	2034/35 20	035/36 203	36/37 20	37/38 2038	/39 2039/	40 2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47 20	47/48 204	18/49 2049/50
IWCM SCENARIO 1																												
SPS 1 - Pumping upgrade to reduce overflow	100%	6		100%																								
SPS 1 - New wet well to increase capacity	100%	6		100% 1,000			1000																					
SPS 2 - Pumping upgrade to reduce surcharging	100%	6		100% 200																200								
Narromine STP - Inlet screening system at STP	100%	6		100% 350							3	50																
Narromine STP - Septage receival system at STP	100%	6		100% 500								00																
Narromine STP - Desludge primary Oxi. Pond	100%			100% 350				350																				
Narromine - Sewering Davis Drive - Low Pressure Sewer	100%			100% 600							6	00																
Narromine - Sewering Davis Drive - Transfer SPS	100%			100%							·																	
Trangie Scheme - Investigations recommended by GHD (Opex)	100%			100%	1																							
A - COUNCIL LTFP - AMP BUDGET	10070			10070																								
Minor Renewal																												
Telemetry High End Server, Drives and Software			100%	100% 40	20							20																
						24	2.4	2.4	2.4	24	2.4	24 24	2.4	24	Ε0	Ε0	F0	Ε0	F0	50 50	50			Ε0	F0	Ε0	Ε0	50 50
Minor Capital Works			100%	100% 1,214		24	24	24	24	24	24	24 24	24	24	50	50	50	50	50	50 50	50	50	50	50	50	50	50	50 50
Narromine pump replacement program			100%	100% 540	-		60	60	60	60		60 60		60														
Trangie pump replacement program			100%	100% 198			22	22	22	22	22	22 22	22	22														
Major Renewal																												
New Switch Boards - Narromine /4 Stations			100%	100% 440				220	220																			
New Switch Boards - Trangie/8 Stations			100%	100% 240																								
Narromine SPS 1 Upgrade - refurbishment			100%	100% 110				110																				
Trangie SPS upgrade - refurbishment			100%	100% 120	60		60																					
Generational Mass RTU/ Telemetry renewal			100%	100% 600									600															
Major Upgrades and Refurbishment		<u> </u>	100%	100% 2,405					180	225	275 4	50 625																
Sewer Main Replacement - Relining Program			100%	100% 2,320			290	290	200	223	2,0	0						290	290			290	290				290	290
CCTV inspection pre-relining	100%		10070	100% 1,375		250	250	230		225		0 225					225	250	250		225	5 0	250			225	230	230
	100%	/0		100% 1,373	4	230				223		0 223					223				223					223		
Major New	4000)		1000/																								
Narromine Head of works and Tankered Waste Recieval Station	100%			100%																								
Treatmrent Plant - Desludging project	100%			100%																								
Sewer Network Expansion (Design and Construction)	100%			100% 3,180				180	450	450	900 3	00 900																
Remediation of Old STP Site	100%			100% 60	_																							
Non Destructive Excavation Vacuum Trailer (Plant)	100%	%		100% 140																								
Narromine RV Dump Point Improvement (Subject to Grant)	100% 100%	%		100% 180				180																				
Major capaital projects administration	100%	%		100% 134	2	5	26	26				29	12				5	6	6									5 6
A - RENEWALS																												
Based on asset register																												
Narromine																												
Sewerage Treatment Plant			100%	100% 688	-										20	370					134				164			
SPS 1 Nymagee Street West / Coles Lane			100%	100%	-										20	370					134				104			
					4																							
SPS 10 Nancy Bird Walton Dr			100%	100% 30	4														4.0							5 0		
SPS 2 Manildra Street			100%	100% 170	4												_		13		90)				52		
SPS 3 Third Avenue (South)			100%	100% 90	<u>'</u>										40		40											
SPS 4 Narromine Aerodrome			100%	100% 46												10												
SPS 5 Mitchell Highway Industrial Estate			100%	100% 37	1													37										
SPS 6 Dandaloo Street / Commodore Crescent			100%	100% 60														20				40	1					
SPS 7 Wattle Crescent			100%	100%																								
SPS 8 Skypark Estate			100%	100% 40													40											
SPS 9 Crossley Drive Sewer Pump Station			100%	100%														20					60					
Trangie																												
Sewerage Treatment Plant			100%	100% 414	ī											262											123	
SPS 1 Mitchell Highway			100%	100% 205	_								205			202											123	
1													203		77									63				
SPS 2 Mungery Street			100%												77									63				- -
SPS 3 Nicholas Street			100%	100% 68																20								48
SPS 4 Allen Street / Poincare Street			100%	100% 145	2											60							37					48
Shared																												
Control System Item			100%	100% 21												21												
Monitoring Item			100%	100% 337	2																	337	,					
Power Supply Item			100%	100%																								
					1																							
GRAND TOTAL				18,867	EAC	270	1 //02	1 // 2	056	1.006 1	201 22	25 1 07 <i>6</i>	1 572	106	107	772	360	/122	250	50 270	400	717	/ /27	112	21/	227	162	2/5 152
GRAND TOTAL				10,007	340	219	1,402	1,402	770	1,000 1	1,201 2,3	JJ 1,6/6	1,3/5	TOO	101	113	300	443	.JJ	30 2/0	433	/1/	45/	112	214	34/	403	345 152

147 50 79



Appendix D Additional OMA cost schedules

- D.1 30-year additional OMA cost schedule Water supply
- D.2 30-year additional OMA cost schedule Sewerage

NARROMINE SHIRE COUNCIL																													
WATER - AOM&M		2023	/24	Current Year																									
Additional/ Increased Recurrent Expenditure		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16 17	18	19	20	21	22	23	24	25	26	27	28	29
	Totals	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36 20	036/37	2037/38 2	038/39 2039	40 2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49 2	049/50	2050/51	2051/52
	_																												
Management: Risk Based WQM Plan (5-yearly review/update)-mandatory	400					00					00					00				00					00				
Annual DWQ Audit and reporting	120			40		20		4.0	40	4.0	20	10	10	40	4.0	20	40	40	10	20	4.0	4.0	4.0	4.0	20	4.0	10	4.0	
Water Quality CCPs monitoring-mandatory requirement	290		10	10	10		10		10	10	10	10	10	10	10	10	10	10 10		10	10	10	10	10	10	10	10	10	1
IWCM Strategy (ex. Grant)	672			24	24	24	24	24	24	24	24	24	24	24	24	24	24	24 24	4 24	24	24	24	24	24	24	24	24	24	2
Water Security Options Study (ex. Grant)	58																												
	29	-																											
Water Quality Options Study (ex. Grant)	28	28																											
Smart meter data service agreement	1,044		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36 30	36	36	36	36	36	36	36	36	36	36	3
Water Loss Investigation/ Management	205	5	15	5	5	5	5	15	5	5	5	5	15	5	5	5	5	15	5 5	5 5	5	15	5	5	5	5	15	5	
Best Practice Tariff /Pricing Review for Water Supply	60			10					10					10				10	ס				10					10	
Review and update of Sec.64 developer charges and DSP	140		20						30						30					30						30			
Conduct customer survey/ education - NAE	0																												
Undertake Energy Audit (Monitor and review energy usage)	49			7				7				7				7			7	,			7				7		
Due Diligence Plans (Emergency Response, Risk Mgmt Plans	90		15					15					15					15				15					15		
HR Plan - Position /Needs (Skills) Analysis	56				8				8				8				8			8				8				8	
Recruit new staff - Project Engineer (W&S)	840			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30 30	30	30	30	30	30	30	30	30	30	30	3
WTP operator	-					90		90	90	90	90	90	90	90	90	90	90	90 90		90	90	90	90	90	90	90	90	90	(
Update Financial Plan	105					15				15				15				15			15				15				,
Tota	3,786	115	96	122	113	230	195	227	243	210	215	202	228	220	225	222	203	235 20	5 202	253	210	220	212	203	230	225	227	213	21
Operation & Maintenance																													
Prepare and maintain Operations Plan	45		10				5				5				5				5			5				5			
Prepare and maintain Maintenance Plan	40			10				5				5				5			5				5				5		
Bore inspection and cleaning (2 bores annually)	1450		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50 50	50	50	50	50	50	50	50	50	50	50	5
Reservoirs inspection for cleaning/re-painting (5 yearly rotation)	160	16			16			16			16			16			16		16	6		16			16			16	
Structural assessment of Raw water reservoirs	0																												
Annual valve easing - 3 yearly rotation	420	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14 14	1 14	14	14	14	14	14	14	14	14	14	1
Annual Telemetry support inclding licensing and security	450	_	15	15	15		15	15	15	15	15	15	15	15	15	15	15	15 19	5 15	5 15	15	15	15	15		15	15	15	1
Emergency Telemetry hardware replacement	240	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	3 8	8 8	8	8	8	8	8	8	8	8	
Standby Power Generator servicing	1050		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35 39	5 35	35	35	35	35	35	35	35	35	35	
Narrmone bulk drinking water treatment to meet ADWG standard				350	350	55	- Not requi	ired after co	mmissioning	the new/	upgraded W	TP			30	33						33	33	33					
		200	200							,																			
Jevelop and implement asset manadement system -Civica in nia	7			1												40				10									
	60					10		I	J	I	10					101	J			101	J	I	I		101		l	l l	
Develop and implement asset management system -Civica in pla Update and Maintain Asset Register - 5 yearly Asset Revaluation (Fair Value) - 5 yearly	60 100					10	20				10	20				10	20			10	20				10	20			

NARROMINE SHIRE COUNCIL																													
WATER - AOM&M		2023	/24	Current Yea	ar																								
Additional/ Increased Recurrent Expenditure		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
	Totals	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30 2	030/31 20	31/32	2032/33	2033/34	2034/35 2	035/36	2036/37	2037/38 2	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/4	2046/47	2047/48	2048/49	2049/50	2050/51
<u> </u>																											+		
Management: Risk Based WQM Plan (5-yearly review/update)-mandatory	400	<u> </u>				20					20					20					00								
Annual DWQ Audit and reporting	120		40	40	40	20	40	10	40	40	20	10	40	10	10	20	10	10	40	40	20				10 1	20			40
Water Quality CCPs monitoring-mandatory requirement	290		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		10			<u> </u>	10 1	0 10		10	
IWCM Strategy (ex. Grant)	672			24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	۷	4 :	24 2	24 24	24	24	24
Water Security Options Study (ex. Grant)	58	58																											
Water Quality Options Study (ex. Grant)	29	29																											
Smart meter data service agreement	28	28		20	20	20	20	20	20	20	20	20	20	20	22	20	20	22	20	20	20	20			- 0	1 00	-		00
Water Loss Investigation/ Management (education, rebates etc.)	1,044		36		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	3	6 .	36 3	5 36	36	36	
Best Practice Tariff /Pricing Review for Water Supply	340	<u>/</u> ——	15		50	50	5	15	5	5	5	5	15	5	5	5	5	15	5	5	5	5	1	5	5	5 5	5	15	5
Review and update of Sec.64 developer charges and DSP	60	<u>/</u>		10					10					10					10						10				10
	140	<u>/</u> /	20						30						30						30						30		
Conduct customer survey/ education - NAE	0	<u>/</u>																									+		
Undertake Energy Audit (Monitor and review energy usage)	49	<u>/</u>		7				7				7				7				7					7			7	
Due Diligence Plans (Emergency Response, Risk Mgmt Plans etc)	90	<u>/</u> /	15					15					15					15					1	5				15	
HR Plan - Position /Needs (Skills) Analysis	56	<i>y</i>			8				8				8				8				8					8			8
Recruit new staff - Project Engineer (W&S)	840	,		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	3	0 ;	30 3	30	30	30	
WTP operator						90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	9	0 !	90 9	90	90	90	90
Update Financial Plan	105	<u>, </u>				15				15				15				15				15				15			
Tota	al 3,921	1 115	96	167	158	275	195	227	243	210	215	202	228	220	225	222	203	235	205	202	253	210	22	0 2	12 20	3 230	225	227	213
Operation & Maintenance																										!	1		
Prepare and maintain Operations Plan	45	<i>i</i>	10				5				5				5				5					5			5		
Prepare and maintain Maintenance Plan	40	<u> </u>		10				5				5				5				5					5			5	
Bore inspection and cleaning (2 bores annually)	1450		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	5	0 :	50 5	50 50	50	50	50
Reservoirs inspection for cleaning/re-painting (5 yearly rotation)	160	<mark>0</mark> 16			16			16			16			16			16			16			1	6		16			16
Structural assessment of Raw water reservoirs	0	,																											
Annual valve easing - 3 yearly rotation	420	<mark>0</mark> 14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	1	4	14 1	4 14	14	14	14
Annual Telemetry support inclding licensing and security	450	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	1	5	15 1	5 15	15	15	1:
Emergency Telemetry hardware replacement	240	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		8	8	8 8	8	8	
Standby Power Generator servicing	1050	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	3	5	35 3	35	35	35	3
Narrmone bulk drinking water treatment to meet ADWG standards	1150	200	250	350	350	-	Not requi	red after com	missioning of	f new/upgi	raded WTF	Р																	
Develop and implement asset management system -Civica in place	0	ر																											
Update and Maintain Asset Register - 5 yearly	60	ا (ر				10					10					10					10					10			
	7						20					20					20					20				1	20	·	
Asset Revaluation (Fair Value) - 5 yearly	100	ا ا					20			l	J	20		I	I	l l	20					20				1	20		

	1						1	1	1	1	1						Т			1		ı									
NARROMINE SHIRE COUNCIL																					1										
SEWERAGE - AOM&M			202	<mark>/24</mark>	Curre	nt Year																									
Additional/ Increased Recurrent Expenditure		1	2	3	4	5		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	Totals	2023/24	2024/25	2025/2	26 2026	/27 2027	7/28 20	028/29 202	9/30 2	030/31 203	31/32 203	32/33 20	33/34	2034/35 2	035/36 2	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/4	6 2046/4	7 2047/4	8 2048/4	9 2049/50	2050/5	2051/5
Management:	_																														
Best Practice Tariff/ Pricing for Sewerage	60				10					10					10					10						10					10
Review and update of Sec.64 developer charges and DSP	140		20	20	10					30					10	30				10) 	30	<u> </u>			10			30		10
Conduct customer survey/ education - NAE	140		20	.0						30						30						30							30		
IWCM Strategy (ex. Grant?)	58	3 58	8																		1										
Undertake Energy Audit (Monitor and review energy usage)	56	6			8				8				8				8				8					8				8	
Due Diligence Plans (Emergency Response, Risk Mgmt Plans etc)	155	5	1!	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5 5	5	5 5	3	5	5	5	5	5	5	5
HR Plan - Position /Needs (Skills) Analysis	49	9			-	7				7				7				7	,			7	7				7			-	7
Recruit new staff - Project Engineer (W&S)	1,260				45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	5 45	45	5 45	5 4	15	45	45	45	45 4	5	15
Update Financial Plan	70	o			-	-	10				10				10				10				10					10	-		
Tota	1,848	3 58	8 3	35	68	57	60	50	58	97	60	50	58	57	70	80	58	57	60	60	58	87	7 60	5	50	68	57	60	80 5	8	67
Operation & Maintenance	_																														
Prepare and maintain Operations Plan	40)			10								10								10								1	0	
Prepare and maintain Maintenance Plan	40	o				10								10							1	10									10
Inflow/ Infiltration monitoring program (Smoke Testing) - Trangie	150)			25					25					25					25	5					25					25
Mains inspection - CCTV monitoring for relining - moved to capex	0	0																													
SPS inspection and maintnance	300	10	0 10	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10) 1	0	10	10	10	10 1	0	10
STPs - Testing and monioring - already included the budget	O	D																													
Biosolids management (bi-annual)? - not required	0	D																													
Annual Telemetry support inclding licensing and security	270	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	g	9	9	9		9	9	9	9	9	9	9
Emergency Telemetry hardware replacement	120) 4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		4	4	4	4	4	4	4
Standby Power Generator servicing	450	15	5 1	5	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	1	5	15	15	15	15 1	5	15
Develop and implement asset management system -Civica in place	0)																													
Update and Maintain Asset Register	60	0					10					10					10					10)					10			
Asset Revaluation (Fair Value) - 5 yearly	100	0						20					20					20					20						20		
Tota	1,530	38	8 3	8	73	48	48	58	38	63	38	48	68	48	63	38	48	58	38	63	3 48	58	58	3	38 (63	38	48	58 4	8	73

NARROMINE SHIRE COUNCIL																														
SEWERAGE - AOM&M			2023	/24	Current \	ear																								
Additional/ Increased Recurrent Expenditure		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	Totals	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48	2048/49	2049/50	2050/51	2051
Management:																														
Best Practice Tariff/ Pricing for Sewerage	60			10)				10					10					10					1	0				10	၁
Review and update of Sec.64 developer charges and DSP	140		20						30						30						30						30			
Conduct customer survey/ education - NAE	o																													
IWCM Strategy (ex. Grant?) + Trangie Scheme investigations	158	58		100																										-
Undertake Energy Audit (Monitor and review energy usage)	56			8	3			3	8			8				8				8					8			8		
Due Diligence Plans (Emergency Response, Risk Mgmt Plans etc)	155		15	5	5 :	5 5	5 5		5 5	5	5	5	5	5	5	5	5	5	5	5	5	5	5 ;	5	5 5	5	5 5	5		5
HR Plan - Position /Needs (Skills) Analysis	49					7	-		7	,			7				7				7				7	_			-	7
Recruit new staff - Project Engineer (W&S)	1,260			45	5 4	5 45	5 45	45	5 45	45	45	45	45	45	45	45	45	45	45	45	45	45	5 45	5 4	5 45	45	5 45	45	4:	5
Update Financial Plan	70					10)			10)		-	10				10				10)			10)			
Total	1,948	58	35	168	3 5	7 60	50	58	8 97	60	50	58	57	70	80	58	57	60	60	58	87	60	5(0 6	8 57	60	80	58	6	7
Operation & Maintenance																														
Prepare and maintain Operations Plan	40			10)		1					10								10								10		
Prepare and maintain Maintenance Plan	40				1(0							10								10								10	ა <u></u>
Inflow/ Infiltration monitoring program (Smoke Testing) - Trangie	150			25	5				25	;			- 10	25					25					2	5				2:	5
Mains inspection - CCTV monitoring for relining - moved to capex	0																													
SPS inspection and maintnance	300	10	10	10) 10	0 10	10	10	0 10	10	10	10	10	10	10	10	10	10	10	10	10	10) 10) 1	0 10	10	10	10	10	ა The state of th
STPs - Testing and monioring - already included the budget	0																													
Biosolids management (bi-annual)? - not required	0																													
Annual Telemetry support inclding licensing and security	270	9	9	9	9	9 9	9	(9 9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9 9	9	9	9		3
Emergency Telemetry hardware replacement	120	4	4	4	1 4	4 4	1 4		4 4	. 4	4	4	4	4	4	4	4	4	4	4	4	4	1 4	4	4 4	4	4	4	4	4
Standby Power Generator servicing	450	15	15	15	5 1	5 15	5 15	15	5 15	15	15	15	15	15	15	15	15	15	15	15	15	15	5 15	5 1	5 15	15	15	15	15	5
Develop and implement asset management system -Civica in place	0																													
Update and Maintain Asset Register	60					10)				10					10					10					10				
Asset Revaluation (Fair Value) - 5 yearly	100						20					20					20					20)				20			



Appendix E Financial Model Input Data

- E.1 Financial model input data Water Supply
- E.2 Financial model input data Sewerage

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Historical Operating Statement

FINMODDEPARTMENT OF
COMMERCE

	2021/22*	2022/23*
EXPENSES		
Management Expenses	381	414
Administration		286
Engineering and Supervision	381	128
Operation and Maintenance Expenses	1439	1231
Operation Expenses		366
Maintenance Expenses	1439	587 69
Energy Costs Chemical Costs		28
Purchase of Water		181
Depreciation	570	436
System Assets	569	436
Plant & Equipment	1	
Interest Expenses		
Other Expenses		146
TOTAL EXPENSES	2390	2227
REVENUES		
	732	899
Rates & Service Availability Charges Residential	732	718
Non-Residential	732	181
User Charges	1231	1465
Sales of Water : Residential	1208	1129
Sales of Water : Non-Residential	23	336
Extra Charges	19	
Interest Income	18	92
Other Revenues		4
Grants	512	314
Grants for Acquisition of Assets	492	220
Pensioner Rebate Subsidy	20	19
Other Grants		75
Contributions	0	0
Developer Charges Developer Provided Assets		
Other Contributions		
TOTAL REVENUES	2512	2774
OPERATING RESULT	122	547
OPERATING RESULT (less Grants for Acq of	-370	327
Assets)		
Printed 20/10/2025	Values in \$'000	

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Historical Statement of Financial Position

FINMOD
DEPARTMENT OF
COMMERCE

	2021/22*	2022/23*
	2021/22	LULLILU
Cash and Investments	1155	563
Receivables	643	576
Inventories		0
Property, Plant & Equipment	25230	29048
System Assets (1)	25230	29048
Plant & Equipment		
Other Assets		
TOTAL ASSETS	27028	30187
LIABILITIES		
Bank Overdraft		
Creditors		
Borrowings	63	
Provisions		
TOTAL LIABILITIES	63	0
NET ASSETS COMMITTED	26965	30187
EQUITY		
Accumulated Operating Result	10910	11977
Asset Revaluation Reserve	16055	18210
TOTAL EQUITY	26965	30187
(1) Notes to System Assets		
Current Replacement Cost	29812	37203
Less: Accumulated Depreciation	4582	8155
Written Down Current Cost	25230	29048

Values in \$'000

20/10/2025

Narromine SC Water Fund Financial Model : IWCM Water - Preferred

FINMOD
DEPARTMENT OF
COMMERCE

Base Forecast Data

Testine Auto-Control Control C		2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Part	Financial Data																									
Conting Cont	Inflation Rate - General (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Number of Assessmenter White Assessmenter White Many Name of Many Name o	Inflation Rate - Capital Works (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Commitment of Assessments	Borrowing Interest Rate for New Loans (%)	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
Continue	Investment Interest Rate (%)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Part	Number of Assessments																									
Marie Assessments	Growth Rate (%)																									
Paris Pari																										
Project Proj																										
Projected Number of Assessments Values in Assessme	Total Assessments	1.27	1.25	1.24	1.22	0.93	0.92	0.92	0.91	0.90	0.85	0.85	0.84	0.83	0.83	0.21	0.21	0.21	0.21	0.21	0.00	0.00	0.00	0.00	0.00	0.00
Non-Residential 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0																										
Train Projects Multicle of Assessments																				5			-	-	-	
Projected Number of Assessments Projected Number of Number o																	-	-		1 6						
Pacific Ministry 1																										
Non-Residential 411 412 413 414 415 416 416 416 416 416 418 419 420 421 422 423 424 425 426 427 428 426 428 428 429 428 428 429 428	•																									
Part																										
Reside of Assessments Reside of Assessment Reside of																										
Residential 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total Projected Assessments	2479	2510	2541	2572	2596	2620	2644	2008	2692	2/15	2/38	2/61	2/84	2807	2813	2819	2825	2831	2837	2837	2837	2837	2837	2837	2837
Non-Berich Michael O O O O O O O O O O O O O O O O O O				_		_	_	_		_	_	_	_	_		_	_	_		_	_	_		_	_	_
Total Backlog Assessments O O O O O O O O O						-									-											
Developer Charges / Vacant Assessments (Values in 2023/24 \$) Developer Charges / Vacant Assessments (Values in 2023/24 \$) Developer Charges / Vacant Assessments Residential 3000 3000 3000 4357 4357 4357 4357 4357 4357 4357 4357		-								-				-	-	-		-	-							
Contribution Cont	Total backing Assessments	0	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Residential 300 300 300 4357 4357 4357 4357 4357 4357 4357 4357		/alues in 2023/	24 \$)																							
Non-Residential 3000 3000 4357 4357 4357 4357 4357 4357 4357 4357		2000	0000	0000	1057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057	4057
Average Charge of Vacant Assessments 40 40 40 40 40 40 40 40 40 40 40 40 40																										
% of Occupied Assessments 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Number of Vacant Residential Assessments	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Depreciation of Existing Plant and Equipment (Values in 2023/24 \$'000)	Average Charge of Vacant Assessments	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Current Replacement Cost of System Assets		ŭ	U	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override Written Down Current Cost of System Assets 30065 Override Annual Depreciation of Existing System Assets 451 Override 580 Written Down Value of Plant and Equipment 0 Override 100 The control of Existing Plant and Equipment 0 Override 0 Overr	Depreciation of Existing Plant and Equipmen	t (Values in 20	23/24 \$'000	0)																						
Written Down Current Cost of System Assets 30065 Override Annual Depreciation of Existing System Assets 451 Override 580 Written Down Value of Plant and Equipment 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		38505																								
Annual Depreciation of Existing System Assets 451 Override 580 Written Down Value of Plant and Equipment 0 Override 500 Annual Depreciation of Existing Plant and 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Written Down Current Cost of System Assets	30065																								
Override 580 Written Down Value of Plant and Equipment 0 Override Annual Depreciation of Existing Plant and 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		451																								
Override Annual Depreciation of Existing Plant and 0		580																								
Annual Depreciation of Existing Plant and 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0																								
	Annual Depreciation of Existing Plant and	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

nted 20/10/2025 Values in \$'000

Narromine SC Water Fund Financial Model : IWCM Water - Preferred Base Forecast Data

FINMOD
DEPARTMENT OF
COMMERCE

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Existing Loan Payments (Values in Inflated \$'00	0)																								
Existing Loan Payments : Principal (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Existing Loan Payments : Interest (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capital Works Program (Values in 2023/24 \$'000))_																								
Subsidised Scheme (Total:38161)	1421	0	360	18314	10766	0	0	0	0	0	0	0	0	0	0	5300	2000	0	0	0	0	0	0	0	0
Other New System Assets (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewals (Total:9161)	242	606	743	196	249	249	249	249	295	775	150	240	225	220	150	364	248	520	150	170	150	233	150	760	299
Total Capital Works (Total:47322)	1663	606	1103	18510	11015	249	249	249	295	775	150	240	225	220	150	5664	2248	520	150	170	150	233	150	760	299
Grant For Acquisition of Assets (% of Subsidised Scheme)	74.81	0.00	0.00	73.71	74.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grant For Acquisition of Assets (\$) (Total:22603)	1063	0	0	13500	8040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Developer Provided Assets (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant and Equipment Expenditure / Asset Dispos	sal (Values	in 2023/24 \$	(000)																						
Plant and Equipment Expenditure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proceeds from Disposal of Plant and Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Written Down Value of Plant and Equipment Disposed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő
Gain/Loss on Disposal of Plant and Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proceeds from Disposal of Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Written Down Value of Assets Disposed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gain/Loss on Disposal of System Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Revised/Additional Forecast Data

FINMOD DEPARTMENT OF COMMERCE

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
OMA / Revenue Overrides (Values in 2023/24 \$	(000)																								
Administration	300	304	308	312	315	318	321	324	327	330	333	336	339	342	343	344	345	346	347	347	347	347	347	347	347
Override	416	402	434	430	558	526	565	587	556	567	557	591	587	597	595	575	613	579	577	636	587	599	590	579	611
Engineering and Supervision	134	136	138	140	141	142	143	144	145	146	147	148	149	150	150	150	150	150	150	150	150	150	150	150	150
Override Operating Expenses	384	389	394	399	403	407	411	415	419	423	427	431	435	439	440	441	442	443	444	444	444	444	444	444	444
Override	675	780	894	911	690	715	720	706	715	757	759	739	765	761	776	803	765	775	889	877	889	891	874	869	899
Maintenance Expenses	615	623	631	639	645	651	657	663	669	675	681	687	693	699	700	701	702	703	704	704	704	704	704	704	704
Override																									
Energy Costs	72	73	74	75	76	77	78	79	80	81	82	83	84	85	85	85	85	85	85	85	85	85	85	85	85
Override Chemical Costs	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Override	20			20	20			20				20					20		20	20					20
Purchase of Water	190	192	194	196	198	200	202	204	206	208	210	212	214	216	216	216	216	216	216	216	216	216	216	216	216
Override																									
Other Expenses Override	153	155	157	159	160	161	162	163	164	165	166	167	168	169	169	169	169	169	169	169	169	169	169	169	169
Other Revenue	80 4	100	100 4	100 4	100	100 4	100 4	100	100 4	100	100 4	100	100 4	100 4	100 4	100 4	100	100 4							
Override	-	7	7	7	7	7	-	-	7	-	7	-	7	7	-	-	-	7	7	7	-	-	-	7	7
Other Grants	79	80	81	82	83	84	85	86	87	88	89	90	91	92	92	92	92	92	92	92	92	92	92	92	92
Override																									
Other Contributions Override	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overnue																									
Developer Charges Overrides (Values in 2023/	24 \$'000)																								
Calculated from Scheme Data	93	93	93	135	105	105	105	105	105	100	100	100	100	100	26	26	26	26	26	0	0	0	0	0	0
Override	50	50	50	132	99	99	99	99	99	98	98	98	98	98	20	20	20	20	20	0	0	0	0	0	0
Pensioner Rebate (Values in Inflated \$)																									
Pensioner Rebate per Pensioner (\$)	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50
Override																									
Pensioner Rebate Subsidy (%) Override	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00
Number of Pensioner Assessments	401	407	412	418	423	427	432	436	441	445	449	453	458	462	463	464	465	466	467	467	467	467	467	467	467
Override																									
Percentage of Pensioners (%)	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38	19.38
Override												40	40	40											
Pensioner Rebate Pensioner Rebate Subsidy	35 19	36 20	36 20	37 20	37 20	37 20	38 21	38 21	39 21	39 21	39 21	40 22	40 22	40 22	41 23										
, ondone reduce customy	19	20	20	20	20	20	21	21	21	21	21	22	22	22	23	23	23	23	25	23	23	23	23	25	25
Revenue Split (%)																									
Residential Rates	33.42	33.47	33.52	33.57	33.60	33.63	33.67	33.70	33.73	33.76	33.79	33.82	33.85	33.87	33.87	33.87	33.87	33.87	33.87	33.86	33.85	33.84	33.83	33.82	33.82
Override	4.40	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
Non-Residential Rates Override	4.12	4.08 7.00	4.04 7.00	3.99 7.00	3.97 7.00	3.94 7.00	3.91 7.00	3.88 7.00	3.85 7.00	3.83 7.00	3.81 7.00	3.78 7.00	3.76 7.00	3.73 7.00	3.74 7.00	3.74 7.00	3.74 7.00	3.74 7.00	3.74 7.00	3.75 7.00	3.75 7.00	3.76 7.00	3.77 7.00	3.78 7.00	3.78 7.00
Sales of Water: Residential	53.86	53.93	54.02	54.10	54.14	54.21	54.26	54.31	54.37	54.41	54.45	54.50	54.55	54.60	54.59	54.59	54.59	54.59	54.59	54.57	54.57	54.55	54.53	54.51	54.50
Override		44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00	44.00
Sales of Water: Non-Residential	8.17	8.09	8.00	7.92	7.87	7.81	7.75	7.70	7.65	7.60	7.55	7.50	7.45	7.41	7.41	7.41	7.41	7.41	7.41	7.43	7.44	7.46	7.47	7.49	7.50
Override	0.40	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
Extra Charges Override	0.43	0.43 0.50	0.42 0.50	0.42 0.50	0.42 0.50	0.41 0.50	0.41 0.50	0.41 0.50	0.40 0.50	0.40 0.50	0.40 0.50	0.40 0.50	0.39 0.50	0.40 0.50	0.40 0.50	0.40 0.50									
Total Non-Residential Revenue (%)	12.29	12.17	12.04	11.91	11.84	11.75	11.66	11.58	11.50	11.43	11.36	11.28	11.21	11.14	11.15	11.15	11.15	11.15	11.15	11.18	11.19	11.22	11.24	11.27	11.28
Total Residential Revenue (%)	87.28	87.40	87.54	87.67	87.74	87.84	87.93	88.01	88.10	88.17	88.24	88.32	88.40	88.47	88.46	88.46	88.46	88.46	88.46	88.43	88.42	88.39	88.36	88.33	88.32
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

20/10/2025

Values in \$'000

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Revised/Additional Forecast Data

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2023/24 2024/25 2025/26 2026/27 2027/28 2028/29 2029/30 2030/31 2031/32 2032/33 2033/34 2034/35 2035/36 2035/36 2036/37 2037/38 2038/39 2039/40 2040/41 2041/42 2042/43 2043/44 2044/45 2045/46 2046/47 2047/48

Printed

20/10/2025

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Revised/Additional Forecast Data

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	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
New Loan Payment Overrides (Values in I	nflated \$'000)																								
Standard Loan Payments: Principal	0	0	14	142	211	223	239	254	270	290	308	327	350	372	396	423	495	528	562	600	639	682	679	266	73
Standard Loan Payments: Interest	0	0	34	356	496	482	466	451	434	416	398	376	354	332	307	281	364	333	297	261	220	178	133	96	83
Structured Loan Payments: Principal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Structured Loan Payments: Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capitalised Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total New Loan Payments: Principal	0	0	14	142	211	223	239	254	270	290	308	327	350	372	396	423	495	528	562	600	639	682	679	266	73
Override																									
Total New Loan Payments: Interest	0	0	34	356	496	482	466	451	434	416	398	376	354	332	307	281	364	333	297	261	220	178	133	96	83
Override																									
Capitalised Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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Historical Operating Statement

	2021/22*	2022/23*
EXPENSES		
Management Expenses	825	528
Administration	200	400
Engineering and Supervision	625	128
Operation and Maintenance Expenses	730	371
Operation Expenses	686	135
Maintenance Expenses		201
Energy Costs	44	35
Chemical Costs	479	246
Depreciation System Assets	479 478	246
System Assets Plant & Equipment	478	240
i din d Equipmon		
Interest Expenses		
Other Expenses		
TOTAL EXPENSES	2034	1145
REVENUES		
Rates & Service Availability Charges	1528	1594
Residential	1214	1229
Non-Residential	314	365
Trade Waste Charges	20	29
Other Sales and Charges		
Extra Charges		
Interest Income Other Revenues	10	83
Other Revenues		
	. =	
Grants	19	18
Grants for Acquisition of Assets Pensioner Rebate Subsidy	19	18
Other Grants		
Contributions	0	188
Developer Charges		188
Developer Provided Assets		
Other Contributions		
TOTAL REVENUES	1577	1912
OPERATING RESULT	-457	767
OPERATING RESULT (less Grants for Acq of	-457	767
Assets)		

Historical Statement of Financial Position

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	2021/22*	2022/23*
	· · · · · ·	
Cash and Investments	7007	7089
Receivables	355	378
Inventories		
Property, Plant & Equipment	25875	28757
System Assets (1)	25151	28757
Plant & Equipment	724	
Other Assets		
TOTAL ASSETS	33237	36224
LIABILITIES		
Bank Overdraft		
Creditors		
Borrowings		
Provisions		
TOTAL LIABILITIES	0	0
NET ASSETS COMMITTED	33237	36224
EQUITY		
Accumulated Operating Result	11024	11876
Asset Revaluation Reserve	22213	24348
	222.10	5 .0
TOTAL EQUITY	33237	36224
(1) Notes to System Assets		
Current Replacement Cost	32222	36792
Less: Accumulated Depreciation	7071	8035
Written Down Current Cost	25151	28757

Values in \$'000

20/10/2025

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Base Forecast Data

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Financial Data	2023124	2027/23	LVLUIZU	EVEUI21	2021120	2020123	2023/30	2000/01	2001/02	2002100	2000/04	2004/00	2000/00	2000/07	2001/00	200000	2003/40	2070/41	2041142	2042/43	2070/44	20-1414-0	2073/40	20-10/47	2071/40
Inflation Rate - General (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Inflation Rate - Capital Works (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50		3.50	3.50	3.50	3.50	3.50
Borrowing Interest Rate for New Loans (%)	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
Investment Interest Rate (%)	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Number of Assessments																									
Growth Rate (%)																									
Residential Assessments	1.57	1.55	1.52	1.50	1.07	1.06	1.05	1.04	1.03	1.02	1.01	1.00	0.99	0.98	0.23	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Non-Residential Assessments Total Assessments	0.26 1.34	0.26 1.32	0.25 1.31	0.25 1.29	0.25 0.93	0.25 0.93	0.25 0.92	0.25 0.91	0.25 0.90	0.25 0.89	0.25 0.88	0.25 0.88	0.25 0.87	0.25	0.25 0.23	0.25 0.23	0.25 0.23	0.25 0.23	0.24 0.23	0.00	0.00	0.00	0.00	0.00	0.00 0.00
Total Assessments	1.34	1.32	1.31	1.29	0.93	0.93	0.92	0.91	0.90	0.69	0.00	0.00	0.67	0.86	0.23	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00
Number of New Assessments Residential	00	00	00	00	04	04	04	04	04	04	04	04	04	04	-	-	-	-	-	0		0	0	0	0
Non-Residential	29 1	29 1	29 1	29 1	21 1	5 1	5 1	5 1	5 1	5 1	0	0	0	0	0	0									
Total New Assessments	30	30	30	30	22	22	22	22	22	22	22	22	22	22	6	6	6	6	6	0	0	0	0	0	0
Projected Number of Assessments																									
Residential	1873	1902	1931	1960	1981	2002	2023	2044	2065	2086	2107	2128	2149	2170	2175	2180	2185	2190	2195	2195	2195	2195	2195	2195	2195
Non-Residential	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410		410	410	410	410	410
Total Projected Assessments	2265	2295	2325	2355	2377	2399	2421	2443	2465	2487	2509	2531	2553	2575	2581	2587	2593	2599	2605	2605	2605	2605	2605	2605	2605
Backlog Assessments																									
Residential	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Residential	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Backlog Assessments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Developer Charges / Vacant Assessments (V	alues in 2023/2	24 \$)																							
Developer Charges \$/Assessment																									
Residential Non-Residential	3500 3500	3500 3500	3500 3500	2000 2000		2000 2000	2000 2000	2000 2000	2000 2000	2000 2000															
Number of Vacant Residential Assessments	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85		85	85	85	85	85
Average Charge of Vacant Assessments % of Occupied Assessments	100 0	100 0	100	100 0	100	100 0	100	100 0	100 0	100	100 0	100	100 0	100	100	100 0	100	100	100	100 0	100	100	100 0	100 0	100 0
% of Occupied Assessments Depreciation of Existing Plant and Equipment		-	-	0	U	U	U	U	U	U	U	U	U	U	U	U	0	0	U	U	U	U	U	U	U
Current Replacement Cost of System Assets	38080		-																						
Override																									
Written Down Current Cost of System Assets Override	29763																								
Annual Depreciation of Existing System Assets	255																								
Override	440																								
Written Down Value of Plant and Equipment	0																								
Annual Depreciation of Existing Plant and Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

nted 20/10/2025 Values in \$'000

Narromine SC Sewer Fund Financial Model April 2024 : IWCM Sewer - Preferred

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Base Forecast Data

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Existing Loan Payments (Values in Inflated \$'	000)																								
Existing Loan Payments : Principal (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Existing Loan Payments : Interest (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Capital Works Program (Values in 2023/24 \$'0	00)_																								
Subsidised Scheme (Total:8820)	210	255	1312	726	466	693	922	1110	1160	25	0	0	0	230	13	0	1224	0	225	6	6	0	0	225	6
Other New System Assets (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Renewals (Total:10978)	344	44	476	746	526	351	401	576	751	1581	126	187	773	130	417	353	50	70	274	717	437	113	214	102	463
Total Capital Works (Total:19798)	554	299	1788	1472	992	1044	1323	1686	1911	1606	126	187	773	360	430	353	1274	70	499	723	443	113	214	327	469
Grant For Acquisition of Assets (% of Subsidised Scheme)	0.00	0.00	0.00	24.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grant For Acquisition of Assets (\$) (Total:180)	0	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Developer Provided Assets (Total:0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant and Equipment Expenditure / Asset Disc	osal (Values	in 2023/24	\$'000)																						
Plant and Equipment Expenditure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proceeds from Disposal of Plant and Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Written Down Value of Plant and Equipment Disposed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gain/Loss on Disposal of Plant and Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Proceeds from Disposal of Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
Written Down Value of Assets Disposed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Gain/Loss on Disposal of System Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Revised/Additional Forecast Data

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_	2022/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	20/11/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
OMA / Revenue Overrides (Values in 2023/24 \$		2024/23	2023/20	2020/21	2021120	2020/29	2023/30	2030/31	2031/32	2032/33	2033/34	2034/33	2033/30	2030/31	2037/30	2030/39	2033/40	2040/41	2041/42	2042/43	2043/44	2044/43	2043/40	2040/47	2047/40
Administration	420	426	432	438	442	446	450	454	458	462	466	470	474	478	479	480	481	482	483	483	483	483	483	483	483
Override	478	461	605	496	504	498	512	559	524	518	531	535	555	571	547	547	551	552	551	585	554	542	563	550	554
Engineering and Supervision	134	136	138	140	141	142	143	144	145	146	147	148	149	150	150	150	150	150	150	150	150	150	150	150	150
Override	104	100	100	140	1-11	172	140		140	140	1-77	140	140	100	100	100	100	100	100	100	100	100	100	100	100
Operating Expenses	142	144	146	148	149	150	151	152	153	154	155	156	157	158	158	158	158	158	158	158	158	158	158	158	158
Override																									
Maintenance Expenses	211	214	217	220	222	224	226	228	230	232	234	236	238	240	241	242	243	244	245	245	245	245	245	245	245
Override	249	253	302	280	283	296	277	320	295	309	335	315	339	313	325	338	315	345	328	340	340	316	346	316	328
Energy Costs	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
Override	37	37	38	38	39	39	39	40	40	40	41	41	42	42	42	42	42	42	42	42	42	42	42	42	42
Chemical Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override																									
Other Expenses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override																									
Other Revenue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override			0			0	0	0	0	0	0		0	0	0		0				0		0	0	0
Other Grants Override	0	0	0	0	0	0	0	0	0	0	0	0	0	U	U	0	U	0	0	0	0	0	0	0	0
Other Contributions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override	O	U	U	U	0	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0
Developer Charges Overrides (Values in 2023/2	24 \$'000)																								
Calculated from Scheme Data	105	105	105	60	44	44	44	44	44	44	44	44	44	44	12	12	12	12	12	0	0	0	0	0	0
Override	50	50	50	50	44	44	44	44	44	44	44	44	44	44	9	9	9	9	9	·	Ū	·	Ū	Ū	· ·
Pensioner Rebate (Values in Inflated \$)																									
Pensioner Rebate per Pensioner (\$)	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50	87.50
Override																									
Pensioner Rebate Subsidy (%)	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00	55.00
Override																									
Number of Pensioner Assessments	380	386	392	397	402	406	410	415	419	423	427	432	436	440	441	442	443	444	445	445	445	445	445	445	445
Override																									
Percentage of Pensioners (%)	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28	20.28
Override																									
Pensioner Rebate	33	34	34	35	35	36	36	36	37	37	37	38	38	39	39	39	39	39	39	39	39	39	39	39	39
Pensioner Rebate Subsidy	18	19	19	19	19	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Revenue Split (%)																									
	0-	77 4-	77.0-	77.0-	77.0-	7001	70.10	70.07	70.00	70.0-	70 1-	70.5	70.00	70.00	70.70	70	70.00	70.07	70.0-	70.00	70.00	70.00	70.00	70.0-	70.00
Residential Rates Override	77.25	77.47	77.67	77.87	77.96	78.04	78.13	78.21	78.30	78.38	78.47	78.54	78.62	78.69	78.73	78.77	78.80	78.84	78.88	78.88	78.88	78.88	78.88	78.88	78.88
Override Non-Residential Rates	21.20	20.00	20.77	20.57	20.40	20.20	20.20	20.22	20.42	20.05	19.96	19.88	10.00	19.73	10.00	19.65	10.60	19.58	19.54	19.54	19.54	19.54	10.54	19.54	19.54
Override	21.20	20.98	20.77	20.57	20.48	20.39	20.30	20.22	20.13	20.05	19.90	19.00	19.80	19.73	19.69	19.05	19.62	19.56	19.54	19.54	19.54	19.54	19.54	19.54	19.54
Trade Waste Charges	1.55	1.55	1.56	1.56	1.56	1.57	1.57	1.57	1.57	1.57	1.57	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
Override	1.00	1.00	1.00	1.00	1.00	1.07	1.07	1.07	1.07	1.07	1.07	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Other Sales and charges	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Override	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00
Extra Charges	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Override																									
Total Non-Residential Revenue (%)	22.75	22.53	22.33	22.13	22.04	21.96	21.87	21.79	21.70	21.62	21.53	21.46	21.38	21.31	21.27	21.23	21.20	21.16	21.12	21.12	21.12	21.12	21.12	21.12	21.12
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Total Residential Revenue (%)	77.25	77.47	77.67	77.87	77.96	78.04	78.13	78.21	78.30	78.38	78.47	78.54	78.62	78.69	78.73	78.77	78.80	78.84	78.88	78.88	78.88	78.88	78.88	78.88	78.88

nted 20/10/2025 Values in \$'000

Page 5

Narromine SC Sewer Fund Financial Model April 2024 : IWCM Sewer - Preferred

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Revised/Additional Forecast Data

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
New Loan Payment Overrides (Values in	nflated \$'000)																								
Standard Loan Payments: Principal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Standard Loan Payments: Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Structured Loan Payments: Principal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Structured Loan Payments: Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capitalised Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total New Loan Payments: Principal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override																									
Total New Loan Payments: Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Override																									
Capitalised Interest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



Appendix F Financial Model Output Data

- F.1 Financial model output data Water Supply
- F.2 Financial model output data Sewerage

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Operating Statement

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DEPARTMENT OF
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Marie Properties 1-8 20		2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Section Sect	EXPENSES																									
Content and supportance 1.5 1.	Management Expenses	550	538	572	570	699	669	709	731	701	713	704	739	736	747	7 4 5	725	763	729	727	786	737	749	740	729	761
Part	Administration	416	402	434	430	558	526	565	587	556	567	557	591	587	597	595	575	613	579	577	636	587	599	590	579	611
Second part	Engineering and Supervision	134	136	138	140	141	142	143	144	145	146	147	148	149	150	150	150	150	150	150	150	150	150	150	150	150
Manuscriptomene 15 65 63 61 65 65 65 65 65 65 65	Operation and Maintenance Expenses	1581	1698	1822	1849	1637	1671	1686	1682	1699	1750	1762	1750	1785	1790	1806	1834	1796	1809	1923	1911	1923	1925	1908	1903	1933
Simple from 1 72 73 74 175 75 75 77 77 78 79 79 79 79 79 79 79 79 79 79 79 79 79	Operation Expenses	675	780	894	911	690	715	720	706	715		759	739	765	761	776	803	765	775	889	877	889	891	874	869	899
Change Class 20	Maintenance Expenses																									704
Trophysiolisms 190 191 191 191 191 191 191 191 200 201 201 201 201 201 201 201 201 20																										85
Part																										29 216
Part	ruicilase di Walei	190	132	104	130	130	200	202	204	200	200	210	212	214	210	210	210	210	210	210	210	210	210	210	210	210
Fine Registration 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Depreciation	599	599	604	849	993	993	992	993	993	993	993	993	993	994	994	1064	1091	1090	1091	1091	1091	1090	1090	1090	1090
TRAIL PLEASE SETTING TO SETTING T	System Assets																									1090
TOTAL EXPENSES 281 293 3130 3669 3861 3839 3867 3862 3867 3862 3862 3867 3862 3862 3862 3862 3863 3862 3863 3862 3864 3863 3862 3864 3863 3864 3863 3864 3864 3864 3864	Plant & Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EXPENSION 2810 2815 3130 3669 3861 3839 3867 3869 3822 3861 3840 3840 3843 3835 3891 3860 3913 4091 4023 3861 3851 3801 3865 3866 3891 3860 3913 4091 4023 3861 3851 3801 3865 3861 3861 3861 3865 3861 3861 3861 3861 3861 3865 3861 3861 3861 3861 3861 3861 3861 3861	Interest Expenses	0	0	32	321	432	406	379	354	330	305	282	258	234	212	190	168	210	186	160	136	111	86	62	44	36
REVENUES Proper A Force Annihilation Changes 885 1256 1473 1494 1509 1502 1544 1509 1502 1544 1509 1502 1545 15	Other Expenses	80	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Reine & Brotice Availability Charges 886 125 1416 1404 1509 1226 1454 1609 1677 1704 1607 1667 1667 1667 1667 1667 1667 1678 1	TOTAL EXPENSES	2810	2935	3130	3689	3861	3839	3867	3860	3822	3861	3841	3840	3848	3843	3835	3891	3960	3913	4001	4023	3961	3951	3901	3866	3920
Residential Reside	REVENUES																									
International PRB 1051 1155 1250 1264 1278 1293 1306 1321 1304 1307 1307 1307 1307 1307 1307 1307 1308 1401 1404 1405 1405 1405 1405 1405 1405		885	1255	1415	1494	1509	1526	1544	1560	1577	1594	1609	1625	1641	1657	1661	1665	1670	1673	1677	1678	1678	1679	1678	1679	1679
Non-Residential 97 204 231 244 246 248 251 254 257 260 262 284 267 270 271 271 272 272 273																										1406
Sales of Water : Residential 1289 1284 1448 1528 1544 1564 1579 1598 1614 1630 1647 1662 1678 1696 1700 1705 1708 1712 1716 1717 1717 1717 1718 1718 1718 38 38 38 48 48 48 48 48 48 48 48 48 48 48 48 48																										
Sales of Water: Non-Residential 193 365 412 434 439 444 449 454 459 463 468 473 477 481 483 484 486 486 486 488 487 487 488 488 488 48 Extra Charges 10 14 17 17 17 18 18 18 18 18 18 18 18 18 18 19 19 19 19 19 20 20 20 19 19 20 19 20 19 Interest Income 21 15 24 35 30 34 52 70 88 93 108 129 148 167 185 64 25 31 47 61 76 87 101 105 1 Other Revenues 10 161 100 100 1360 8140 101 102 102 103 103 104 105 106 106 106 106 106 106 104 104 104 104 103 103 102 1 Grants for Acadesidion of Assets 10 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	User Charges	1462	1649	1860	1962	1983	2007	2028	2051	2072	2093	2115	2134	2155	2177	2183	2189	2194	2199	2204	2204	2204	2205	2205	2206	2206
Extra Charges 10 14 17 17 17 18 18 18 18 18 18 18 19 19 19 19 19 19 20 20 19 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 19 20 20 20 20 20 20 20 20 20 20 20 20 20	Sales of Water : Residential																									
Interest Income 21 15 24 35 30 34 52 70 88 93 108 129 148 167 185 64 25 31 47 61 76 87 101 105 1 Other Revenues 3 16 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sales of Water : Non-Residential	193	365	412	434	439	444	449	454	459	463	468	473	477	481	483	484	486	486	488	487	487	488	488	488	488
Other Revenues 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Extra Charges	10	14	17	17	17	18	18	18	18	18	18	19	19	19	19	19	20	20	19	19	20	19	20	19	20
Other Revenues 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Interest Income	21	15	24	35	30	34	52	70	88	93	108	129	148	167	185	64	25	31	47	61	76	87	101	105	120
Grants for Acquisition of Assets 1063 0 0 13500 8040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			4							4					4								4			4
Grants for Acquisition of Assets 1063 0 0 13500 8040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Grants	1161	100	100	13600	8140	101	102	102	103	103	104	105	106	106	106	106	106	105	104	104	104	103	103	102	102
Pensioner Rebate Subsidy 19 19 19 19 18 17 17 17 16 15 15 15 15 15 14 14 14 13 13 13 12 12 12 11 11 10 Other Grants 79 80 81 82 83 84 85 86 87 88 89 90 91 92 92 92 92 92 92 92 92 92 92 92 Contributions 50 50 50 50 132 99 99 99 99 99 99 99 98 98 98 98 98 20 20 20 20 20 20 0 0 0 0 0 0 Developer Charges 50 50 50 50 132 99 99 99 99 99 99 98 98 98 98 98 98 20 20 20 20 20 20 0 0 0 0 0 0 Developer Provided Assets 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1063	0	0	13500	8040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contributions 50 50 50 132 99 99 99 99 99 99 98 98 98 98 98 20 20 20 20 20 20 0 0 0 0 0 0 0 0 0 0																										
Developer Charges 50 50 50 50 132 99 99 99 99 99 99 98 98 98 98 98 20 20 20 20 20 20 0 0 0 0 0 0 0 0 0 0	Other Grants	79	80	81	82	83	84	85	86	87	88	89	90	91	92	92	92	92	92	92	92	92	92	92	92	92
Developer Provided Assets 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Contributions	50	50	50	132	99	99	99	99	99	98	98	98	98	98	20	20	20	20	20	0	0	0	0	0	0
Other Contributions 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Developer Charges		50			99		99	99	99		98	98	98	98	20		20				0	0	0	0	0
TOTAL REVENUES 3593 3088 3470 17243 11784 3790 3847 3905 3962 4004 4057 4114 4172 4228 4178 4067 4038 4051 4075 4070 4085 4098 4112 4116 41 OPERATING RESULT 783 153 340 13554 7922 -49 -20 45 140 143 216 274 324 385 343 177 78 138 74 47 124 147 211 250 2			-		-	-	-	-		-	-	-	-	-	•	•	-	•				-	-	-	-	0
OPERATING RESULT 783 153 340 13554 7922 -49 -20 45 140 143 216 274 324 385 343 177 78 138 74 47 124 147 211 250 2	Other Contributions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	FOTAL REVENUES	3593	3088	3470	17243	11784	3790	3847	3905	3962	4004	4057	4114	4172	4228	4178	4067	4038	4051	4075	4070	4085	4098	4112	4116	4131
ODERATING DESULT (I Compared and 1280 153 340 54 -118 -49 -20 45 140 143 216 274 324 385 343 177 78 138 74 47 124 147 211 250 2	OPERATING RESULT	783	153	340	13554	7922	-49	-20	45	140	143	216	274	324	385	343	177	78	138	74	47	124	147	211	250	212
	OPERATING RESULT (less Grants for Acq of	-280	153	340	54	-118	-49	-20	45	140	143	216	274	324	385	343	177	78	138	74	47	124	147	211	250	212

20/10/2025 Values in 2023/24 \$'000

Page 1

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Cashflow Statement

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	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Cashflow From Operating Activities																									
Receipts																									
Rates and Charges	2357	2919	3292	3472	3510	3551	3590	3630	3668	3705	3742	3778	3816	3853	3864	3873	3883	3892	3900	3901	3901	3904	3903	3905	3905
Interest Income	21	15	24	35	30	34	52	70	88	93	108	129	148	167	185	64	25	31	47	61	76	87	101	105	120
Other Revenues	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Grants	1161	100	100	13600	8140	101	102	102	103	103	104	105	106	106	106	106	106	105	104	104	104	103	103	102	102
Contributions	50	50	50	132	99	99	99	99	99	98	98	98	98	98	20	20	20	20	20	0	0	0	0	0	0
Total Receipts from Operations	3593	3088	3470	17243	11784	3790	3847	3905	3962	4004	4057	4114	4172	4228	4178	4067	4038	4051	4075	4070	4085	4098	4112	4116	4131
<u>Payments</u>																									
Management	550	538	572	570	699	669	709	731	701	713	704	739	736	747	745	725	763	729	727	786	737	749	740	729	761
Operations (plus WC Inc)	1609	1726	1850	1878	1664	1698	1714	1710	1727	1778	1790	1778	1813	1818	1831	1858	1821	1833	1948	1934	1947	1949	1931	1927	1956
Interest Expenses	0	0	32	321	432	406	379	354	330	305	282	258	234	212	190	168	210	186	160	136	111	86	62	44	36
Other Expenses	80	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total Payments from Operations	2239	2364	2554	2869	2896	2873	2902	2895	2858	2896	2876	2875	2883	2878	2866	2851	2894	2847	2935	2956	2894	2884	2834	2799	2853
Net Cash from Operations	1354	724	916	14374	8888	917	945	1010	1104	1108	1181	1239	1288	1350	1312	1216	1144	1204	1140	1115	1191	1213	1277	1316	1278
Cashflow from Capital Activities																									
Receipts																									
Proceeds from Disposal of Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Payments .	· ·	· ·	0	•	0	•	Ū	•	· ·	Ū	· ·	Ū	Ū	· ·	Ü	Ū	· ·	· ·	0	·	O	· ·	Ü	· ·	Ü
Acquisition of Assets	1663	606	1103	18510	11015	249	249	249	295	775	150	240	225	220	150	5664	2248	520	150	170	150	233	150	760	299
Net Cash from Capital Activities	-1663	- 606	-1103	-18510	-11015	-249	-249	-249	- 295	-775	-150	-240	-225	-220	-150	-5664	-2248	-520	-150	-170	-150	-233	-150	- 760	-299
		000					0	2.0	200			0					22.0	020							200
CashFlow from Financing Activities																									
Receipts																									
New Loans Required Payments	0	0	500	4500	2000	0	0	0	0	0	0	0	0	0	0	0	1000	0	0	0	0	0	0	0	0
Principal Loan Payments	0	0	13	128	184	188	194	200	205	213	218	224	232	238	245	252	285	294	303	312	321	331	319	121	32
Net Cash from Financing Activities	0	0	487	4372	1816	-188	-194	-200	-205	-213	-218	-224	-232	-238	-245	-252	715	-294	-303	-312	-321	-331	-319	-121	-32
TOTAL NET CASH	-309	118	300	236	-311	480	502	561	604	120	812	775	832	892	917	-4700	-390	390	687	633	720	649	809	436	947
Current Year Cash	-309	118	300	236	-311	480	502	561	604	120	812	775	832	892	917	-4700	-390	390	687	633	720	649	809	436	947
Cash & Investments @Year Start	563	245	351	629	836	507	953	1406	1901	2421	2455	3157	3799	4475	5185	5896	1156	740	1092	1719	2272	2890	3420	4085	4368
Cash & Investments @Year End	254	363	651	865	525	987	1455	1967	2505	2541	3267	3932	4631	5367	6102	1196	766	1130	1779	2351	2991	3539	4228	4521	5315
Capital Works Funding:																									
nternal Funding for New Works (\$'000)	358	0	360	314	726	0	0	0	0	0	0	0	0	0	0	5300	1000	0	0	0	0	0	0	0	0
Internal Funding for Renewals	242	606	243	196	249	249	249	249	295	775	150	240	225	220	150	364	248	520	150	170	150	233	150	760	299
New Loans	0	0	500	4500	2000	0	0	0	0	0	0	0	0	0	0	0	1000	0	0	0	0	0	0	0	0
Grants	1063	0	0	13500	8040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Capital Works	1663	606	1103	18510	11015	249	249	249	295	775	150	240	225	220	150	5664	2248	520	150	170	150	233	150	760	299

Values in 2023/24 \$'000

20/10/2025

Page 2

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

Statement of Financial Position

FINMOD
DEPARTMENT OF
COMMERCE

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Cash and Investments	254	351	608	780	458	831	1184	1546	1902	1864	2316	2693	3065	3432	3770	714	442	630	958	1223	1503	1718	1984	2049	2328
Receivables	604	612	619	627	633	638	644	650	656	662	668	673	679	685	686	688	689	690	692	692	692	692	692	692	692
Inventories	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Property, Plant & Equipment	31129	31135	31635	49296	59318	58574	57830	57087	56389	56171	55328	54575	53806	53033	52189	56789	57946	57376	56435	55515	54574	53717	52777	52447	51656
System Assets (1)	31129	31135	31635	49296	59318	58574	57830	57087	56389	56171	55328	54575	53806	53033	52189	56789	57946	57376	56435	55515	54574	53717	52777	52447	51656
Plant & Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ASSETS	31987	32098	32861	50703	60408	60044	59658	59283	58947	58697	58312	57942	57550	57149	56645	58190	59077	58696	58085	57429	56769	56128	55453	55188	54676
LIABILITIES																									
Bank Overdraft	0		0		0	0	0	0	0	0	0		0	0			0	0	0		0	0		0	0
Creditors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Borrowings	0	0	487	4843	6495	6087	5687	5295	4911	4532	4161	3796	3436	3082	2733	2388	3022	2626	2234	1847	1463	1082	727	582	530
Provisions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LIABILITIES	0	0	487	4843	6495	6087	5687	5295	4911	4532	4161	3796	3436	3082	2733	2388	3022	2626	2234	1847	1463	1082	727	582	530
NET ASSETS COMMITTED	31987	32098	32374	45860	53914	53956	53971	53987	54036	54165	54151	54146	54114	54067	53912	55802	56055	56070	55851	55583	55306	55045	54725	54606	54146
EQUITY																									
Accumulated Operating Result	12760	12481	12399	25534	32593	31442	30359	29377	28523	27702	26981	26343	25776	25289	24777	24116	23378	22726	22031	21333	20735	20181	19709	19292	18851
Asset Revaluation Reserve	19227	20316	21444	22630	24543	26925	29359	31847	34389	36988	39668	42400	45188	48034	50937	53894	57224	60741	64345	68014	71750	75551	79423	83360	87410
TOTAL EQUITY	31987	32110	32417	45945	53981	54112	54243	54409	54639	54841	55103	55385	55680	56002	56245	56284	56379	56571	56672	56711	56794	56866	56970	57078	57133
(1) Notes to System Assets																									
Current Replacement Cost	39926	39926	40286	58599	69365	69365	69365	69364	69365	69365	69365	69365	69365	69365	69365	74665	76665	76665	76665	76665	76665	76665	76665	76665	76665
Less: Accumulated Depreciation	8797	8790	8651	9304	10047	10791	11535	12278	12976	13194	14037	14790	15559	16332	17176	17876	18719	19289	20230	21151	22091	22948	23888	24218	25009
Written Down Current Cost	31129	31135	31635	49296	59318	58574	57830	57087	56389	56171	55328	54575	53806	53033	52189	56789	57946	57376	56435	55515	54574	53717	52777	52447	51656

Values in 2023/24 \$'000

20/10/2025

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

FINMOD DEPARTMENT OF COMMERCE

Performance Indicators

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Typical Residential Bills	1030	1150	1275	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325	1325
Average Residential Bills (2023/24\$)	995	1113	1237	1287	1287	1289	1289	1291	1291	1291	1292	1292	1292	1294	1294	1295	1295	1295	1296	1296	1296	1297	1297	1297	1297
Mgmnt Cost / Assessment (2023/24\$)	222	214	225	222	269	255	268	274	260	263	257	268	264	266	265	257	270	257	256	277	260	264	261	257	268
OMA Cost per Assessment (2023/24\$)	783	814	866	864	824	817	830	828	815	831	824	825	829	827	830	831	829	820	858	874	861	867	858	852	873
Operating Sales Margin (%)	-12.00	4.47	10.08	9.17	7.67	8.61	8.10	8.59	9.84	9.08	9.87	10.11	10.18	10.60	8.71	7.01	6.55	7.28	4.64	3.04	3.95	3.63	4.28	4.70	3.18
Economic Real Rate of Return (%)	-0.97	0.44	1.10	0.69	0.48	0.55	0.53	0.58	0.68	0.63	0.70	0.74	0.76	0.81	0.67	0.49	0.45	0.51	0.33	0.22	0.29	0.27	0.33	0.36	0.25
Debt Service Ratio	0.00	0.00	0.01	0.12	0.16	0.16	0.15	0.14	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.10	0.12	0.12	0.11	0.11	0.11	0.10	0.09	0.04	0.02
Debt/Equity Ratio	0.00	0.00	0.02	0.11	0.12	0.11	0.10	0.10	0.09	0.08	0.08	0.07	0.06	0.06	0.05	0.04	0.05	0.05	0.04	0.03	0.03	0.02	0.01	0.01	0.01
Interest Cover	0.00	0.00	11.71	1.17	0.73	0.88	0.95	1.13	1.42	1.47	1.77	2.06	2.38	2.81	2.81	2.05	1.37	1.74	1.46	1.35	2.12	2.70	4.38	6.74	6.82
Return on capital (%)	-0.88	0.48	1.13	3.35	2.23	0.59	0.60	0.67	0.80	0.76	0.85	0.92	0.97	1.04	0.94	0.59	0.49	0.55	0.40	0.32	0.41	0.42	0.49	0.53	0.45
Cash and Investments (2023/24\$'000)	254	363	651	865	525	987	1455	1967	2505	2541	3267	3932	4631	5367	6102	1196	766	1130	1779	2351	2991	3539	4228	4521	5315
Debt outstanding (2023/24\$'000)	0	0	487	4843	6495	6087	5687	5295	4911	4532	4161	3796	3436	3082	2733	2388	3022	2626	2234	1847	1463	1082	727	582	530
Net Debt (2023/24\$'000)	0	0	0	3978	5970	5100	4232	3328	2406	1991	894	0	0	0	0	1192	2256	1496	455	0	0	0	0	0	0

Narromine SC Water Fund Financial Model: IWCM Water - Preferred STANDARD LOAN PAYMENT SCHEDULE

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	Drawdown	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
2025/26 Principal 536	6			14	14	16	16	18	19	20	22	23	24	26	28	29	31	33	36	38	41	43	46	0	0	0
Interest				34	34	33	32	30	30	28	27	26	24	22	21	19	17	15	13	10	8	5	2	0	0	0
2026/27 Principal 498	89				128	136	144	154	164	175	187	199	212	226	240	256	274	292	311	331	354	376	402	429	0	0
Interest					322	314	305	295	285	275	263	251	237	223	208	192	176	157	139	117	96	72	48	21	0	0
2027/28 Principal 229	95					59	63	67	71	75	81	86	91	98	104	111	118	126	134	143	152	163	173	185	197	0
Interest						149	145	141	136	131	126	121	115	109	103	96	88	80	72	64	54	44	33	21	9	0
2039/40 Principal 173	34																	44	47	50	53	57	61	65	69	73
Interest																		112	109	106	103	99	95	91	87	83
Total Principal 955	54	0	0	14	142	211	223	239	254	270	290	308	327	350	372	396	423	495	528	562	600	639	682	679	266	73
Total Interest		0	0	34	356	496	482	466	451	434	416	398	376	354	332	307	281	364	333	297	261	220	178	133	96	83

Narromine SC Water Fund Financial Model: IWCM Water - Preferred

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Summary Report of Assumptions and Results

	2023/24	2027/28	2032/33	2037/38	2042/43	2047/48	2052/53
Inflation Rates - General (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Inflation Rates - Capital Works (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Borrowing Interest Rate (%)	6.50	6.50	6.50	6.50	6.50	6.50	6.50
Term of New Loans (years)	20	20	20	20	20	20	20
Investment Interest Rate (%)	5.00	5.00	5.00	5.00	5.00	5.00	5.00
investment interest (date (/a)							
Growth Rate - Residential (%)	1.47	1.07	0.97	0.21	0.00	0.00	0.00
Developer Charges per Assessment - Residential (2023/24 \$)	3000	4357	4357	4357	4357	4357	4357
Subsidiard Sahama Canidal Wada (Sm)	1.42	10.77	0.00	0.00	0.00	0.00	0.00
Subsidised Scheme Capital Works (\$m)	1.42	10.77	0.00	0.00	0.00	0.00	0.00
Grants on Acquisition of Assets (\$m)	1.06	8.04	0.00	0.00	0.00	0.00	0.00
Renewals (\$m)	0.24	0.25	0.78	0.15	0.17	0.30	0.15
Renewals (%)	0.61	0.36	1.12	0.22	0.22	0.39	0.20
Cash and Investments (\$m)	0.25	0.46	1.86	3.77	1.22	2.33	3.49
Casn and investments (\$iii)	0.23	0.40	1.00	3.77	1.22	2.00	3.49
Borrowing Outstanding (\$m)	0.00	6.49	4.53	2.73	1.85	0.53	0.28
Mgmnt Cost / Assessment	222	269	263	265	277	268	263
Debt Equity Ratio	0.00	0.10	0.06	0.03	0.02	0.00	0.00
	702	924	831	920	874	873	864
OMA Cost Per Assessment	783	824	831	830	874	873	864
Economic Real Rate of Return (%)	-0.97	0.48	0.63	0.67	0.22	0.25	0.33
Return on Capital (%)	-0.88	2.23	0.76	0.94	0.32	0.45	0.66
Net Debt (\$m)	0.00	5.97	1.99	0.00	0.00	0.00	0.00
		0.40	0.40	0.40	0.44		
Debt Service Ratio	0.00	0.16	0.13	0.10	0.11	0.02	0.01
Average Residential Bills	995	1287	1291	1294	1296	1297	1299
Typical Residential Bills (2023/24\$)	1030	1325	1325	1325	1325	1325	1325

nted 20/10/2025 Values in 2023/24 \$

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Operating Statement

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
EXPENSES																									
Management Expenses	612	597	743	636	645	640	655	703	669	664	678	683	704	721	697	697	701	702	701	735	704	692	713	700	704
Administration	478	461	605	496	504	498	512	559	524	518	531	535	555	571	547	547	551	552	551	585	554	542	563	550	554
Engineering and Supervision	134	136	138	140	141	142	143	144	145	146	147	148	149	150	150	150	150	150	150	150	150	150	150	150	150
Operation and Maintenance Expenses	428	434	486	465	471	485	468	512	488	503	532	512	537	513	525	538	515	<i>54</i> 5	528	540	540	516	547	516	528
Operation Expenses	142	144	146	148	149	150	151	152	153	154	155	156	157	158	158	158	158	158	158	158	158	158	158	158	158
Maintenance Expenses	249	253	302	280	283	296	277	320	295	309	335	315	339	313	325	338	315	345	328	340	340	316	346	316	328
Energy Costs	37 0	37 0	38 0	38 0	39 0	39 0	39 0	40 0	40 0	40 0	41 0	41 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0	42 0
Chemical Costs Depreciation	442	444	459	467	472	480	491	503	516	517	517	517	517	519	519	519	533	534	537	537	537	538	538	540	540
System Assets	442	444	459	467	472	480	491	503	516	517	517	517	517	519	519	519	533	534	537	537	537	538	538	540	540
Plant & Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Expenses Other Expenses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EXPENSES	1482	1475	1689	1568	1589	1605	1613	1717	1673	1684	1726	1712	1758	1754	1741	1754	1749	1781	1765	1812	1781	1745	1797	1756	1772
REVENUES.																									
Rates & Service Availability Charges	1634	1688	1709	1734	1748	1767	1786	1804	1823	1838	1857	1875	1891	1910	1913	1918	1924	1927	1932	1933	1934	1934	1935	1936	1937
Residential	1282	1329	1349	1371	1385	1401	1417	1433	1450	1464	1481	1496	1511	1527	1530	1535	1540	1544	1548	1550	1550	1550	1551	1552	1553
Non-Residential	352	359	360	363	363	366	369	371	373	374	376	379	381	383	383	383	384	383	383	384	384	384	384	384	385
Trade Waste Charges	26	26	27	27	28	28	28	29	29	29	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31
Other Sales and Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Extra Charges	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Interest Income Other Revenues	358 0	377 0	348 0	299 0	274 0	253 0	226 0	185 0	136 0	95 0	96 0	113 0	114 0	119 0	125 0	131 0	115 0	125 0	128 0	123 0	124 0	135 0	142 0	146 0	145 0
Other Revenues	Ü	Ü	· ·	Ü	Ü	Ü	Ü	Ü	Ü	Ü	· ·	Ü	Ü	· ·	Ü	Ü	· ·	· ·	Ü	Ü	· ·	· ·	Ü	Ü	Ü
Grants	18	18	18	198	17	17	16	16	15	15	14	14	14	13	13	13	12	12	11	11	11	10	10	10	9
Grants for Acquisition of Assets	0	0	0	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pensioner Rebate Subsidy	18	18	18	17	17	17	16	16	15	15	14	14	14	13	13	13	12	12	11	11	11	10	10	10	9
Other Grants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contributions	50	50	50	50	44	44	44	44	44	44	44	44	44	44	9	9	9	9	9	0	0	0	0	0	0
Developer Charges	50	50	50	50	44	44	44	44	44	44	44	44	44	44	9	9	9	9	9	0	0	0	0	0	0
Developer Provided Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Contributions	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
TOTAL REVENUES	2086	2159	2153	2307	2110	2109	2100	2078	2047	2021	2041	2076	2093	2117	2091	2102	2092	2104		2098	2100	2111	2118	2123	2123
OPERATING RESULT	604	684	464	739	521	504	487	361	374	337	315	364	335	363	350	349	343	323		286	319	366	320	366	350
OPERATING RESULT (less Grants for Acq of Assets)	604	684	464	558	521	504	487	361	374	337	315	364	335	363	350	349	343	323	346	286	319	366	320	366	350

Printed 20/10/2025 Values in 2023/24 \$'000 Page 1

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Cashflow Statement

Contact From Countrie Careers Contact From Countrie Career		2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Part																										
Part	Cashflow From Operating Activities																									
Marie Name Mar	<u>Receipts</u>																									
Content cont																										
Section Sect																										
Centroling control properties Sign Sig			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-
Marie Numerice Numerica Numerice Numerice Numerice Numerice Numerice Numerice Numerica Nume																										-
Name																-	-	-	-			•	-	•		
Maria Propersion Grant	· ·	2000	2133	2133	2301	2110	2103	2100	2070	2047	2021	2041	2070	2093	2117	2031	2102	2032	2104	2111	2030	2100	2111	2110	2123	2123
Outs Legionity Mee No. 446 457 575 484 489 503 486 503 505	- ·	242		7.00		0.45	0.40		700			070		70.4	704	007		704	700	704	705	704		740	700	704
Martine Research Martine Res	•																									
Case Page																										
Teal Physemetrian	•		•	-	-		-	-	-	-	-	-		-	•	-	-	-	-	-		-	-	•		-
Cashflow from Capital Activities	Total Payments from Operations	-	1049	-	1120	1134	1143	1141	1232	1175	1186	1228	-	1260	1254	1238	1250	1232	1263	1245		-	1223	1275	-	1247
Cashflow from Capital Activities	No Octobra Octobra	4000	4440	205	4407	070	207	200	242	070	225	040		200	000	050	050	202	044	007	200	044	200	242	204	075
Records from Disposal of Asserts Process from D	Net Cash from Operations	1028	1110	905	1187	9/6	967	960	846	8/2	835	813	862	833	863	853	852	860	841	867	808	841	888	843	891	8/5
Processed Assests 1	Cashflow from Capital Activities																									
Processed Assests 1	Receipts																									
Part		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Part	· ·	ŭ	·	· ·	· ·	ŭ	Ü	ŭ	· ·	ŭ	·	ŭ	Ü	Ü	ŭ	Ů	ŭ	ŭ	· ·	Ü	ŭ	ŭ	Ŭ	Ü	Ü	ŭ
Red Ceah from Capital Activities Section		554	300	1788	1472	993	1044	1323	1686	1911	1606	126	187	773	360	430	353	1274	70	499	723	443	113	214	327	469
New Loans Required New Loa	Net Cash from Capital Activities																									
New Loans Required New Loa																										
Note																										
Principal Loan Payments Payme	<u>Receipts</u>																									
Principal Loan Payments 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Cash from Financing Activities 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>Payments</u>																									
TOTAL NET CASH 474 811 -883 -285 -17 -77 -363 -840 -1039 -771 -77 -77 -7863 -840 -1039 -771 -77 -77 -77 -7863 -840 -1039 -771 -77 -77 -7863 -840 -1039 -771 -77 -77 -7863 -840 -1039 -771 -787 -7863 -840 -1039 -771 -787 -7883 -840 -1039 -771 -7887 -7883 -840 -1039 -771 -887 -7887 -7883 -840 -1039 -7887 -7883 -840 -1039 -7887 -7887 -7883 -840 -1039 -7887 -7887 -7887 -7887 -7887 -7887 -7888 -8883 -8883 -8883 -8883 -8883 -7884 -8893 -8844 -8883	· · · · · · · · · · · · · · · · · · ·					-									0	-		-						-		
Current Year Cash 474 811 883 -285 -17 -77 -363 -840 -1039 -771 687 675 60 503 423 499 -414 771 368 85 398 774 629 564 406 6264 610 6264 610 610 610 610 610 610 610 610 610 610	Net Cash from Financing Activities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash & Investments @Year Start 7089 7307 7843 6725 622 5996 5718 5174 4187 3042 2194 2784 3342 3287 3662 3947 4296 3751 4368 4576 4503 4735 5323 5751 6102 Cash & Investments @Year End 7563 8118 6960 6440 6206 5918 5355 4334 3149 2271 2881 3459 3402 3790 4085 4446 3882 4521 4736 4661 4901 5510 5952 6315 6508 Capital Works Funding: Internal Funding for New Works (\$'000) 210 255 1312 546 466 693 922 1110 1160 25 0 0 0 230 13 0 1224 0 225 6 6 6 0 0 0 225 6	TOTAL NET CASH	474	811	-883	-285	-17	-77	-363	-840	-1039	-771	687	675	60	503	423	499	-414	771	368	85	398	774	629	564	406
Cash & Investments @Year Start 7089 7307 7843 6725 622 5996 5718 5174 4187 3042 2194 2784 3342 3287 3662 3947 4296 3751 4368 4576 4503 4735 5323 5751 6102 Cash & Investments @Year End 7563 8118 6960 6440 6206 5918 5355 4334 3149 2271 2881 3459 3402 3790 4085 4446 3882 4521 4736 4661 4901 5510 5952 6315 6508 Capital Works Funding: Internal Funding for New Works (\$'000) 210 255 1312 546 466 693 922 1110 1160 25 0 0 0 230 13 0 1224 0 225 6 6 6 0 0 0 225 6	Current Year Cash	474	811	-883	-285	-17	-77	-363	-840	-1039	-771	687	675	60	503	423	499	-414	771	368	85	398	774	629	564	406
Cash & Investments @Year End 7563 8118 6960 6440 6206 5918 5355 4334 3149 2271 2881 3459 3402 3790 4085 4446 3882 4521 4736 4661 4901 5510 5952 6315 6508 Cash & Investments @Year End 6960 6440 6206 5918 5355 4334 3149 2271 2881 3459 3402 3790 4085 4446 3882 4521 4736 4661 4901 5510 5952 6315 6508 Cash & Investments @Year End 6960 6440 6206 5918 5355 4334 3149 2271 1881 1881 5355 4349 3402 3490 4085 4446 3882 4521 4736 4661 4901 5510 5952 6315 6508 Cash & Investments @Year End 6960 6440 6206 5918 5355 4334 5434 5434 5434 5434 5434 543																										
New Loans Clarable New Works (\$'000) 210 255 1312 546 466 693 922 1110 1160 25 0 0 0 230 13 0 1224 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 0 0 225 6 0 0 0 0 0 0 0 0 0	Cash & Investments @Year End	7563	8118	6960	6440	6206	5918	5355	4334	3149	2271	2881	3459	3402	3790	4085	4446	3882	4521	4736	4661	4901	5510	5952	6315	6508
New Horinal Funding for New Works (\$'000) 210 255 1312 546 466 693 922 1110 1160 25 0 0 0 230 13 0 1224 0 225 6 6 6 0 0 225 6 6 6 0 0 225 6 6 6 1 10 10 10 10 1	Canital Waster Franchism																									
Internal Funding for Renewals 344 44 476 746 526 351 401 576 751 1581 126 187 773 130 417 353 50 70 274 717 437 113 214 102 463 463 464 465											_															_
New Loans 0	• . ,											-	-	-			-		-		-	-	•	•		-
Grants 0 0 0 180 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-																									
			•	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-		-	-	-		-
			-												-			-								

Values in 2023/24 \$'000

20/10/2025

FINMOD
DEPARTMENT OF
COMMERCE

Statement of Financial Position

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Cash and Investments	7563	8118	6960	6440	6206	5918	5355	4334	3149	2271	2881	3459	3402	3790	4085	4446	3882	4521	4736	4661	4901	5510	5952	6315	6508
Receivables	396	401	406	411	415	418	422	426	430	434	437	441	445	449	450	451	452	452	453	453	453	453	453	453	453
Inventories	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Property, Plant & Equipment	29875	29729	31058	32062	32582	33147	33979	35162	36557	37646	37256	36926	37182	37023	36935	36768	37509	37046	37008	37194	37100	36676	36352	36139	36067
System Assets (1)	29875	29729	31058	32062	32582	33147	33979	35162	36557	37646	37256	36926	37182	37023	36935	36768	37509	37046	37008	37194	37100	36676	36352	36139	36067
Plant & Equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ASSETS	37834	38248	38424	38913	39203	39483	39757	39922	40135	40351	40574	40826	41029	41263	41470	41665	41842	42019	42197	42308	42454	42638	42757	42907	43028
LIABILITIES																									
Bank Overdraft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Creditors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Borrowings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Provisions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LIABILITIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NET ASSETS COMMITTED	37834	38248	38424	38913	39203	39483	39757	39922	40135	40351	40574	40826	41029	41263	41470	41665	41842	42019	42197	42308	42454	42638	42757	42907	43028
EQUITY																									
Accumulated Operating Result	12480	12742	12775	13082	13161	13220	13260	13172	13101	12994	12870	12798	12700	12634	12557	12481	12401	12305	12235	12108	12017	11977	11892	11856	11806
Asset Revaluation Reserve	25354	25506	25649	25832	26042	26264	26497	26750	27034	27356	27705	28028	28329	28629	28913	29184	29441	29714	29962	30200	30436	30662	30865	31051	31223
TOTAL EQUITY	37834	38248	38424	38913	39203	39483	39757	39922	40135	40351	40574	40826	41029	41263	41470	41665	41842	42019	42197	42308	42454	42638	42757	42907	43028
(1) Notes to System Assets																									
	20000	20545	20052	40500	44040	44740	40000	40770	44022	44050	44050	44050	44050	45400	45000	45000	46400	46400	40054	46657	40000	40000	40004	40000	46904
Current Replacement Cost Less: Accumulated Depreciation	38290 8415	38545 8815	39856 8798	40582 8520	41048 8466	41742 8595	42663 8684	43773 8611	44933 8376	44958 7312	44958 7702	44958 8032	44958 7776	45189 8165	45202 8267	45202 8433	46426 8917	46426 9381	46651 9643	46657 9463	46663 9563	46663 9988	46664 10311	46888 10750	46894 10827
Written Down Current Cost	29875	29729	31058	32062	32582	33147	33979	35162	36557	37646	37256	36926	37182	37023	36935	36768	37509	37046	37008	37194	37100	36676	36352	36139	36067
	23073	23123	31030	32002	32302	33147	33313	33102	30337	37040	31230	30320	37 102	31023	30333	30700	31309	37040	37 000	31 134	37 100	30070	30332	30139	30001

20/10/2025

FINMOD DEPARTMENT OF COMMERCE

Performance Indicators

	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46	2046/47	2047/48
Typical Residential Bills	702	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715	715
Average Residential Bills (2023/24\$)	684	699	698	700	699	700	700	701	702	701	703	703	703	703	704	704	705	705	705	706	706	706	707	707	707
Mgmnt Cost / Assessment (2023/24\$)	270	260	319	270	271	267	271	288	271	267	270	270	276	280	270	269	270	270	269	282	270	266	274	269	270
OMA Cost per Assessment (2023/24\$)	459	449	528	467	470	469	464	497	469	470	482	472	486	480	473	477	469	480	472	489	477	464	484	467	473
Operating Sales Margin (%)	14.24	17.24	6.41	14.17	13.48	13.52	13.93	9.26	12.44	12.57	11.26	12.77	11.17	12.22	11.47	11.02	11.50	10.02	10.99	8.27	9.87	11.65	9.05	11.14	10.37
Economic Real Rate of Return (%)	0.82	1.03	0.37	0.81	0.76	0.76	0.77	0.50	0.65	0.64	0.59	0.68	0.59	0.66	0.61	0.59	0.61	0.54	0.59	0.44	0.53	0.63	0.49	0.61	0.57
Debt Service Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debt/Equity Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Interest Cover	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Return on capital (%)	1.60	1.79	1.21	1.48	1.33	1.28	1.23	0.90	0.93	0.83	0.78	0.89	0.82	0.88	0.84	0.84	0.82	0.77	0.82	0.68	0.75	0.86	0.75	0.85	0.81
Cash and Investments (2023/24\$'000)	7563	8118	6960	6440	6206	5918	5355	4334	3149	2271	2881	3459	3402	3790	4085	4446	3882	4521	4736	4661	4901	5510	5952	6315	6508
Debt outstanding (2023/24\$'000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Debt (2023/24\$'000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

FINMODDEPARTMENT OF
COMMERCE

Summary Report of Assumptions and Results

	2023/24	2027/28	2032/33	2037/38	2042/43	2047/48	2052/53
	0.50	0.50	0.50	0.50	0.50	0.50	0.5-
Inflation Rates - General (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Inflation Rates - Capital Works (%)	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Borrowing Interest Rate (%)	6.50	6.50	6.50	6.50	6.50	6.50	6.50
Term of New Loans (years)	20	20	20	20	20	20	20
Investment Interest Rate (%)	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Growth Rate - Residential (%)	1.57	1.07	1.02	0.23	0.00	0.00	0.00
Developer Charges per Assessment -	3500	2000	2000	2000	2000	2000	2000
Residential (2023/24 \$)							
Subsidised Scheme Capital Works (\$m)	0.21	0.47	0.03	0.01	0.01	0.01	0.00
Grants on Acquisition of Assets (\$m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Renewals (\$m)	0.34	0.53	1.58	0.42	0.72	0.46	0.08
Renewals (%)	0.90	1.28	3.52	0.92	1.54	0.99	0.17
Cash and Investments (\$m)	7.56	6.21	2.27	4.09	4.66	6.51	8.91
Borrowing Outstanding (\$m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mgmnt Cost / Assessment	270	271	267	270	282	270	266
Debt Equity Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OMA Cost Per Assessment	459	470	470	473	489	473	468
Economic Real Rate of Return (%)	0.82	0.76	0.64	0.61	0.44	0.57	0.64
Return on Capital (%)	1.60	1.33	0.83	0.84	0.68	0.81	0.90
Net Debt (\$m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Debt Service Ratio							
Average Residential Bills	684	699	701	704	706	707	708
Typical Residential Bills	702	715	715	715	715	715	715

ted 20/10/2025 Values in 2023/24 \$

Page 1