

BUSINESS PAPER

ORDINARY MEETING OF COUNCIL

To be held at 6:00 PM on

Monday 5 May 2025

Council Chambers, Level 10, Council Administration Building, 41 Burelli Street, Wollongong

(Note: In accordance with the Code of Meeting Practice, Councillors will be able to attend and participate in this meeting via audio-visual link)

Order of Business

- 1 Opening Meeting
- 2 Acknowledgement of Traditional Custodians
- 3 Civic Prayer
- 4 Apologies and Applications for Leave of Absence by Councillors
- 5 Confirmation of Minutes of Ordinary Council Meeting
- 6 Confirmation of Minutes of Extraordinary Ordinary Council Meeting
- 7 Conflicts of Interest
- 8 Petitions and Presentations
- 9 Confirmation of Minutes of Council Committee Meeting
- 10 Public Access Forum
- 11 Call of the Agenda
- 12 Lord Mayoral Minute
- 13 Urgent Items
- 14 Reports to Council
- 15 Reports of Committees
- 16 Items Laid on the Table
- 17 Notices of Motions(s)/Questions with Notice
- 18 Notice of Rescission Motion
- 19 Confidential Business
- 20 Conclusion of Meeting

Members

Lord Mayor -

Councillor Tania Brown (Chair)

Deputy Lord Mayor -

Councillor Linda Campbell

Councillor Andrew Anthony

Councillor David Brown

Councillor Kit Docker

Councillor Dan Hayes

Councillor Ann Martin

Councillor Richard Martin

Councillor Ryan Morris

Councillor Tiana Myers

Councillor Thomas Quinn

Councillor Deidre Stuart

Councillor Jess Whittaker



Statement of Ethical Obligations

In accordance with clause 3.23 of the Model Code of Meeting Practice, released by the NSW Office of Local Government, Councillors are reminded of their Oath or Affirmation of Office made under section 233A of the Act and their obligations under Council's Code of Conduct to disclose and appropriately manage conflicts of interest

OATH OR AFFIRMATION OF OFFICE

The Oath or Affirmation is taken by each Councillor whereby they swear or declare to undertake the duties of the office of councillor in the best interests of the people of Wollongong and Wollongong City Council and that they will faithfully and impartially carry out the functions, powers, authorities and discretions vested in them under the *Local Government Act 1993* or any other Act to the best of their ability and judgment.

CONFLICTS OF INTEREST

All Councillors must declare and manage any conflicts of interest they may have in matters being considered at Council meetings in accordance with the Council's Code of Conduct. All declarations of conflicts of interest and how the conflict of interest was managed will be recorded in the minutes of the meeting at which the declaration was made.

Councillors attending a meeting by audio-visual link must declare and manage any conflicts of interest they may have in matters being considered at the meeting in accordance with Council's Code of Conduct. Where a councillor has declared a pecuniary or significant non-pecuniary conflict of interest in a matter being discussed at the meeting, the councillor's audio-visual link to the meeting will be suspended or terminated for the time during which the matter is being considered or discussed by Council, or at any time during which Council is voting on the matter.

Councillors should ensure that they are familiar with Parts 4 and 5 of the Wollongong City Council **Code of Conduct for Councillors** in relation to their obligations to declare and manage conflicts of interests.

Staff should also be mindful of their obligations under the Wollongong City Council *Code of Conduct for Staff* when preparing reports and answering questions during meetings of Council.



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MINUTES

ORDINARY MEETING OF COUNCIL

at 6:00 PM

Monday 7 April 2025

Present

Lord Mayor – Councillor Tania Brown (in the Chair) Deputy Lord Mayor – Councillor Linda Campbell Councillor Andrew Anthony Councillor David Brown

Councillor Kit Docker Councillor Dan Hayes Councillor Ann Martin Councillor Richard Martin Councillor Ryan Morris Councillor Tiana Myers Councillor Thomas Quinn Councillor Deidre Stuart Councillor Jess Whittaker

In Attendance

General Manager

Director Infrastructure + Works, Connectivity Assets + Liveable City Director Planning + Environment, Future City + Neighbourhoods

Director Corporate Services, Connected + Engaged City

Director Community Services, Connected + Engaged City

Director Community Services, Creative + Innovative City

Chief Financial Officer

Chief Digital + Information Officer

General Counsel (attended via audio-visual link)

Manager City Strategy Manager City Works (Acting)

Manager Commercial Operations + Property (Acting)

Manager Customer + Business Integrity

Manager Development Assessment + Certification

Manager Infrastructure Strategy + Planning Manager Libraries + Community Facilities

Manager Open Space + Environmental Services

Manager Project Delivery (Acting)
Manager Regulation + Enforcement

Manager Sport + Recreation

Senior Manager People + Culture (Acting)

Joanne Page Linda Davis Renee Campbell Kerry Hunt **Brian Jenkins** Ingrid McAlpin Jeff Reilly **Chris Stewart Greg Knight** Roisin OSullivan Todd Hopwood Mark Adamson Nathan McBriarty Sarah Taylor Paul Tracey Jeremy Morgan Corey Stoneham Mark Berriman Olivia Holmes

Greg Doyle

Note: In accordance with the Code of Meeting Practice, participants in the meeting can participate via audio-visual link. Those who participated via audio-visual link are indicated in the attendance section of the Minutes.



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CONFLICTS OF INTERESTS

Councillor Ann Martin declared a non-significant, non-pecuniary interest in Item 3 - Public Exhibition - Draft Wollongong Local Strategic Planning Statement and Item 4 - Post Exhibition - West Dapto Development Contributions Plan 2025, due to her employment at the Department of Planning and Environment. As she is not involved in planning matters related to the Wollongong LGA, Councillor A Martin advised she would remain in the meeting during debate and voting on the items.

Councillor Ann Martin declared non-significant, non-pecuniary interest in Item 6 - Policy Review - Wollongong Memorial Gardens & Cemeteries Council Policy, as she Chairs the Our Community Project which operates Tender Funerals. Councillor A Martin advised that she would depart the meeting during debate and voting on the item.

Councillor Thomas Quinn declared a non-significant, non-pecuniary interest in Item 7- Tender T1000173 - Memorial Drive (Albert Street) Debris Control Structure, as he has previously studied with the business development manager of one of the companies that tendered. Councillor Quinn advised he would remain in the meeting during debate and voting on the item.

CONFIRMATION OF MINUTES OF ORDINARY MEETING OF COUNCIL HELD ON MONDAY, 17 MARCH 2025

COUNCIL'S RESOLUTION – RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Docker that the Minutes of the Ordinary Meeting of Council held on Monday, 17 March 2025 (a copy having been circulated to Councillors) be taken as read and confirmed.

PUBLIC ACCESS FORUM

ITEM NO	TITLE	NAME OF SPEAKER
11	NOTICE OF MOTION - COUNCILLOR JESS WHITTAKER - ADVOCATE FOR THE UNDERPASS TO THE F6 FREEWAY AT WATERFALL TO BE REOPENED FOR CYCLISTS	CRAIG VERNON FOR RECOMMENDATION
12	NOTICE OF MOTION - COUNCILLOR KIT DOCKER AND COUNCILLOR ANDREW ANTHONY - EXTENDING THE OPERATING HOURS OF THE CONTINENTAL POOL	REBECCA SCHMIDT- LACHLAN FOR RECOMMENDATION
12	NOTICE OF MOTION - COUNCILLOR KIT DOCKER AND COUNCILLOR ANDREW ANTHONY - EXTENDING THE OPERATING HOURS OF THE CONTINENTAL POOL	AMABILE CUNZOLO FOR RECOMMENDATION
NON- AGENDA ITEM	SOUTHERN CYCLEWAY SAFETY UPGRADES	KATHRYN MORGAN – UNDERSTOREY LANDSCAPE ARCHITECTS
NON- AGENDA ITEM	BIKE RACK AT THE CONTINENTAL POOL	MANUEL NAVARRETE



OUNCIL'S RESOLUTION – RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Docker that all speakers be thanked for their presentation and invited to table their notes.

CALL OF THE AGENDA

32 COUNCIL'S RESOLUTION — RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that the staff recommendations for Items 2 to 4 inclusive then 7 to 9 inclusive be adopted as a block.

ITEM A - LORD MAYORAL MINUTE - BESTOWING THE KEYS TO THE CITY TO THE ILLAWARRA HAWKS

COUNCIL'S RESOLUTION - RESOLVED UNANIMOUSLY on the motion of Councillor T Brown that the City of Wollongong, in line with our Community Recognition Program, bestow the Keys to the City on the Illawarra Hawks for winning the 2025 National Basketball League Championship.

ITEM 1 - PUBLIC EXHIBITION - DRAFT OUR WOLLONGONG OUR FUTURE 2035 - INTEGRATED PLANNING DOCUMENTS

- 34 COUNCIL'S RESOLUTION RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Morris that -
 - Council endorse the Draft Our Wollongong Our Future 2035 Community Strategic Plan, Draft Resourcing Strategy 2025-2035, Draft Asset Management Policy, Draft Delivery Program 2025-2029 and Operational Plan 2025-2026, including the Draft Budget 2025-2026, Draft Infrastructure Delivery Program 2025-2026 to 2028-2029 and Draft Revenue Policy, Rates, Annual Charges and Fees 2025-2026 to be placed on public exhibition for the period 9 April to 7 May 2025.
 - Following public exhibition, the post-exhibition Our Wollongong Our Future 2035 Community Strategic Plan, Resourcing Strategy 2025-2035, Asset Management Policy, Delivery Program 2025-2029 and Operational Plan 2025-2026, including the Budget 2025-2026, Infrastructure Delivery Program 2025-2026 to 2028-2029 and Revenue Policy, Rates, Annual Charges and Fees 2025-2026 be presented to Council for adoption.

ITEM 2 - PUBLIC EXHIBITION - FINANCIAL SUSTAINABILITY COUNCIL POLICY

The following staff recommendation was adopted as part of the Block Adoption of Items (refer Minute Number 32)

COUNCIL'S RESOLUTION – RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that Council endorse the draft Financial Sustainability Policy to be placed on exhibition with Council's Integrated Planning suite of documents.

ITEM 3 - PUBLIC EXHIBITION - DRAFT WOLLONGONG LOCAL STRATEGIC PLANNING STATEMENT

The following staff recommendation was adopted as part of the Block Adoption of Items (refer Minute Number 32)

COUNCIL'S RESOLUTION - RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that the draft Wollongong Local Strategic Planning Statement be exhibited for a minimum of 28 days.



ITEM 4 - POST EXHIBITION - WEST DAPTO DEVELOPMENT CONTRIBUTIONS PLAN 2025

The following staff recommendation was adopted as part of the Block Adoption of Items (refer Minute Number 32)

COUNCIL'S RESOLUTION – RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that the West Dapto Development Contributions Plan 2025 (Attachment 1) be adopted and a notice placed on Council's Public Notices webpage.

ITEM 5 - POLICY REVIEW - COMPLIANCE AND ENFORCEMENT POLICY

35 COUNCIL'S RESOLUTION - RESOLVED UNANIMOUSLY on the motion of Councillor Hayes seconded Councillor D Brown that Council adopt the updated Compliance and Enforcement Policy

DEPARTURE OF COUNCILLOR

Due to a disclosed conflict of interest, Councillor A Martin departed the meeting at 7:09 pm and was not present for the debate nor voting on 6. Councillor A Martin returned to the meeting at 7:09 pm at the conclusion of Item 6.

ITEM 6 - POLICY REVIEW - WOLLONGONG MEMORIAL GARDENS & CEMETERIES COUNCIL POLICY

36 COUNCIL'S RESOLUTION - RESOLVED UNANIMOUSLY on the motion of Councillor Hayes seconded Councillor Campbell that Council endorse the revised Wollongong Memorial Gardens and Cemeteries Policy.

ITEM 7 - TENDER T1000173 - MEMORIAL DRIVE (ALBERT STREET) DEBRIS CONTROL STRUCTURE

The following staff recommendation was adopted as part of the Block Adoption of Items (refer Minute Number 32)

COUNCIL'S RESOLUTION – RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that -

- 1 In accordance with Section 178(1)(a) of the Local Government (General) Regulation 2021, Council accept the tender of Select Civil Pty Ltd for Memorial Drive (Albert Street) Debris Control Structure, in the sum of \$537,388.00 including GST.
- 2 Council delegate to the General Manager the authority to finalise and execute the contract and any other documentation required to give effect to this resolution.
- 3 Council grant authority for the use of the Common Seal of Council on the contract and any other documentation, should it be required, to give effect to this resolution.

ITEM 8 - FEBRUARY 2025 FINANCIALS

The following staff recommendation was adopted as part of the Block Adoption of Items (refer Minute Number 32)

COUNCIL'S RESOLUTION - RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that the financials be received and noted.

ITEM 9 - STATEMENT OF INVESTMENT - FEBRUARY 2025

The following staff recommendation was adopted as part of the Block Adoption of Items (refer Minute Number 32)

COUNCIL'S RESOLUTION - RESOLVED UNANIMOUSLY on the motion of Councillor D Brown seconded Councillor Myers that Council receive the Statement of Investment for February 2025.



ITEM 10 - NOTICE OF MOTION - COUNCILLOR DAN HAYES - SAFER SCHOOL ROUTES PROGRAM

- 37 COUNCIL'S RESOLUTION RESOLVED UNANIMOULSY on the motion of Councillor Hayes seconded Councillor R Martin that Council receives a report in 2025 outlining
 - a The challenges and opportunities in delivering the Safer School Routes Program.
 - b Current budget allocations to the project and timeframes.
 - The future roll out of the program to other schools and implementation of future projects.
 - d Opportunities to expedite the projects identified.

ITEM 11 - NOTICE OF MOTION - COUNCILLOR JESS WHITTAKER - ADVOCATE FOR THE UNDERPASS TO THE F6 FREEWAY AT WATERFALL TO BE REOPENED FOR CYCLISTS

COUNCIL'S RESOLUTION — RESOLVED UNANIMOUSLY on the motion of Councillor Whittaker seconded Councillor Hayes that Wollongong City Council write to the NSW Minister for Roads, Jenny Aitchison MP and Maryanne Stuart MP, requesting that the NSW State Government investigate the feasibility of reopening the toll booth tunnel under the F6 Freeway at Waterfall. This action will provide cyclists with a safe crossing location at the freeway when travelling south to the Old Princes Highway.

Variation The variation moved by Councillor Hayes (the addition of Maryanne Stuart MP) was accepted by the mover and seconder.

ITEM 12 - NOTICE OF MOTION - COUNCILLOR KIT DOCKER AND COUNCILLOR ANDREW ANTHONY - EXTENDING THE OPERATING HOURS OF THE CONTINENTAL POOL

MOVED by Councillor Docker seconded Councillor Anthony that a report come to Council outlining the potential benefits and additional costs associated with extending the operating hours of the Continental Pool to 6:00 pm during the months of May and June.

- 39 COUNCIL'S RESOLUTION RESOLVED UNANIMOUSLY on the motion (AMENDMENT) of Councillor D Brown seconded Councillor Quinn that
 - 1 That the options for extended or varied opening hours of supervised pools, and associated costs, be included in a councillor briefing or information note on the Aquatic and Indoor Sports Strategy.
 - 2 That the information presented include transport and access issues related to pool use.

Councillor D Brown's AMENDMENT on being PUT to the VOTE was CARRIED to become the MOTION.

In favour Councillors Hayes, R Martin, Quinn, D Brown, Myers, A Martin, Campbell, Whittaker, Docker, Stuart, Morris and T Brown

Against Councillor Anthony

The motion (AMENDMENT) on being PUT to the VOTE was CARRIED UNANIMOULSY.

THE MEETING CONCLUDED AT 7:33 PM

Confirmed as a correct record of proceedings at the Ordinary Meeting of the Council of the City of Wollongong held on Monday 5 May 2025.

Chairperson	



ITEM A LORD MAYORAL MINUTE - DRUG COURT - WOLLONGONG

Drug Courts are part of the current judicial system of the Local and District Courts in NSW. The first Drug Court was established at Parramatta in 1999 and there are currently three others operating at Toronto (Newcastle), Sydney CBD and Dubbo.

Eligible offenders are required to go through a specialised Court process, which provides them opportunities for rehabilitation while they are closely monitored. The re-offending rate for Drug Court participants is approximately 17 percent lower than the rate of re-offending for those not accepted into the program.

Over a 3-year trend, NSW as a whole has seen a downward trend in drug offences by 7.3 percent per year, however Wollongong LGA has seen an increase of 10.3 percent per year. The 2024 NSW Drug Summit recommended establishing the Drug Court to regional areas including Wollongong. The Wollongong and District Law Society is advocating for a Drug Court to be established in Wollongong to service the Illawarra and South Coast.

RECOMMENDATION

I recommend that Wollongong City Council:

- 1. Write to the NSW Attorney General expressing support for establishing the Drug Court to Wollongong.
- 2. Ask the Illawarra Shoalhaven Joint Organisation to advocate for establishing the Drug Court for the region.

ATTACHMENTS

There are no attachments for this report.



ITEM 1

PUBLIC EXHIBITION - DRAFT ASSET MANAGEMENT PLAN - OUR ASSET PLAN 2025-2035

Council is currently exhibiting a suite of Integrated Planning Documents, seeking community feedback on the draft documents including the Draft Asset Management Strategy 2025-2036, and Draft Asset Management Policy. The Draft Asset Management Strategy and Policy have been derived from the comprehensive asset plan, Our Asset Plan 2025-2035.

This draft asset management plan is a strategic document that defines how Council will manage its vast portfolio of infrastructure assets over the next decade. These include critical infrastructure such as roads, stormwater drains, bridges, parks, footpaths, buildings, and information technology systems. The draft Our Asset Plan provides guidance to manage assets in a cost-effective, sustainable, and service-oriented manner.

RECOMMENDATION

- 1. Council endorse the Draft Asset Management Plan Our Asset Plan 2025-2035 to be placed on public exhibition from 7 May to 4 June 2025.
- 2. Following the public exhibition period, the post-exhibition Asset Management Plan Our Asset Plan 2025-2035 be included with the suite of documents including Our Wollongong Our Future 2035 Community Strategic Plan, Resourcing Strategy 2025-2035, Asset Management Policy, Delivery Program 2025-2029 and Operational Plan 2025-2026, including the Budget 2025-2026, Infrastructure Delivery Program 2025-2026 to 2028-2029 and Revenue Policy, Rates, Annual Charges and Fees 2025-2026 for presentation to Council for adoption.

REPORT AUTHORISATIONS

Report of: Jeremy Morgan, Manager Project Delivery (Acting)
Authorised by: Joanne Page, Director Infrastructure + Works

ATTACHMENTS

1 Draft Asset Management Plan - Our Asset Plan 2025-2035

BACKGROUND

Asset Management Planning is an important part of our pathway to sustainability. As the custodian of over \$7 billion worth of community assets, and annual depreciation expense expected to exceed \$88M/annum by 2025/26, a plan on how we manage over the full asset lifecycle is increasingly important. The ability to renew assets when they require it and continue to fund new and expanded service provisions will create challenges into the future. We have experienced the impacts of the challenging global economy over the last few years, pushing costs for service delivery higher. This is a major driver for reviewing practices around lifecycle management.

The community have set a vision for Wollongong, and identified four goals that will help us achieve that vision. Our Asset Plan forms part of our supporting document structure that outlines how we will achieve the goals that the community have set through the services we provide, and the assets required to deliver the services. The purpose of the asset plan is to outline why we provide assets, what assets we provide and how we manage them over the long-term.

Our Asset Plan is a strategic level document that includes a policy, strategy, and individual plans for all assets under Council control, including road and transport; stormwater and floodplain; open space and recreation; buildings and facilities; plant, fleet and equipment; library collection and resources; information management and technology; and artwork, antiquities, and memorial collections. The plan groups assets by type to ensure that we have a comprehensive and systematic approach to managing similar assets, regardless of location or service supported.

Each asset plan outlines key risks and threats to assets including resilience to climate hazards, the lifecycle actions and key responsibilities across the organisation involved in managing assets. The plan provides focus for the key strategic matters that need to be considered and managed. This strategic



document will be supported by more granular operational plans over time for specific roles and functions in the lifecycle management of assets.

To ensure we maintain our journey of increasing our asset management maturity, an improvement plan has been provided as part of this plan. It outlines the discoveries and opportunities identified from the investigation and research undertaken. The actions are allocated to a responsible role within the organisation to review an indicative timeframe.

Wollongong City Council's Asset Management Plan (AMP) 2025-2035 provides the framework for managing one of the city's most significant responsibilities: the provision and upkeep of public infrastructure. Public assets enable essential services, support economic activity, and enhance community well-being.

Council's infrastructure includes over 180,000 individual assets spread across the local government area. These assets have varying levels of complexity, lifespan, and maintenance needs. To ensure optimal service delivery, Council requires a structured and strategic approach to asset management.

This AMP is aligned with broader planning documents including:

- The Community Strategic Plan Our Wollongong 2035
- The Long-Term Financial Plan (LTFP) •
- The Delivery Program and Operational Plan
- The Workforce Management Strategy

DRAFT ASSET MANAGEMENT STRATEGY 2025-2035

The draft Asset Management Strategy currently on exhibition provides a summarised version of the strategic direction for managing Council's diverse asset portfolio. It outlines how Council will ensure our assets support the delivery of community priorities and aspirations, as defined in the Community Strategic Plan, and those services and functions Council is responsible for as presented in the Delivery Program and Operational Plan. The Strategy emphasises organisational sustainability, resilience and value-for-money outcomes in managing assets throughout their lifecycle. It serves as a guide for decision making ensuring Council resources are effectively prioritised and deployed to support implementation of the Delivery Program.

The draft Asset Management Plan (AMP) – Our Asset Plan 2025-2035 has been prepared to support the implementation of the draft Asset Management Strategy which provides detailed, long-term planning for the maintenance, renewal and upgrade of Council's assets, for each asset class.

These integrated planning documents guide Council's resource allocation and strategic priorities over the next decade. The AMP plays a vital role by connecting financial sustainability with infrastructure condition and community service expectations.

PURPOSE OF THE ASSET MANAGEMENT PLAN

The purpose of the AMP is to provide a long-term strategy for the sustainable management of Council's infrastructure. It identifies what assets Council owns, their current condition, their required service levels, and the funding needed to maintain or improve those assets over time.

More specifically, the AMP aims to:

- Ensure infrastructure assets are fit for purpose and meet service delivery requirements
- Enable informed decision-making through accurate data and financial forecasts
- Integrate asset planning with risk management and community priorities
- Provide transparency and accountability in how assets are maintained, renewed, or replaced
- Guide capital investment decisions and ensure consistency across departments

Through the AMP, Council can address challenges such as ageing infrastructure, increasing service demands, and the impacts of climate change. For example, coastal infrastructure in Wollongong is already subject to erosion and storm impacts, necessitating proactive asset resilience strategies.



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By clarifying long-term priorities, the AMP helps Council balance operational needs with financial constraints, ensuring infrastructure supports community needs sustainably.

OBJECTIVES OF THE PLAN

The AMP is built around clear and measurable objectives that support effective asset stewardship. These objectives are aligned with Councils vision for a connected, sustainable, and innovative Wollongong.

- Asset management is considered as a key element of our integrated planning
- 2. Assets provide value by supporting Council services
- 3. Council is responsible in its control and management of assets on behalf of the community
- 4. Asset management decisions are balanced
- 5. Lifecycle management informs recommendations and decisions

PROPOSAL

It is proposed Council endorse the draft Our Asset Plan 2025-2035 document for public exhibition during the period 7 May to 4 June 2025. Following the exhibition period an engagement report on feedback and submissions received for will be reported to Council along with a summary of any recommended changes to the draft document resulting from the exhibition period.

CONSULTATION AND COMMUNICATION

Internal consultation was conducted with relevant Council Divisions to develop the Draft Our Asset Plan 2025-2035. The draft document also draws on asset related implications from many supporting documents that have been subject to community engagement as part of their development.

If endorsed, the draft Our Asset Plan 2025-2035 will be publicly exhibited for a minimum period of 28 days, and the issues raised in submissions reported to Council for consideration in the final plan.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 4 "We are a connected and engaged community" and Goal 6 "We have affordable and accessible transport". It specifically delivers on the following:

	Community Strategic Plan 2032	Delivery Program 2022-2026	
	Strategy	Service	
4.7	Demonstrate responsible decision-making based on our value, collaboration, and transparent and accountable leadership.	Corporate Strategy	
4.8	Council's resources are managed effectively to ensure long term financial sustainability.	Financial Services	
6.4	Plan and provide sustainable infrastructure for safe and liveable places integrated with the environment and accessible to key transport routes.	Infrastructure Strategy and Support	

SUSTAINABILITY IMPLICATIONS

Council is proposing to invest over \$785million in the renewal, upgrade, expansion, creation, maintenance and operation of assets over the next four-years as part of the Infrastructure Delivery Program. The draft Our Asset Plan provides guidance on a range of sustainability factors, including social, environmental and financial matters. The draft plan brings together a range of demands, impacts and risks to forecast the investment recommended to meet the needs of the community as identified through our Supporting Documents.

By clarifying long-term priorities, the draft Our Asset Plan helps guide balanced decision making on operational needs with financial constraints, ensuring infrastructure supports community needs sustainably aligned to the principles of the Financial Sustainability Policy.

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FINANCIAL IMPLICATIONS

Based on the proposed estimates and assumptions, Council's position on the asset management will remain sustainable in the short to medium term and Council will continue to monitor and react to longer term issues in advance of any change requirements. Continued focus on lifecycle costs of infrastructure and alignment to services will assist in understanding the long-term implications of investment decisions. Council will continue to progress the Improvement Plan actions throughout the period to drive improvement of outcomes in asset management.

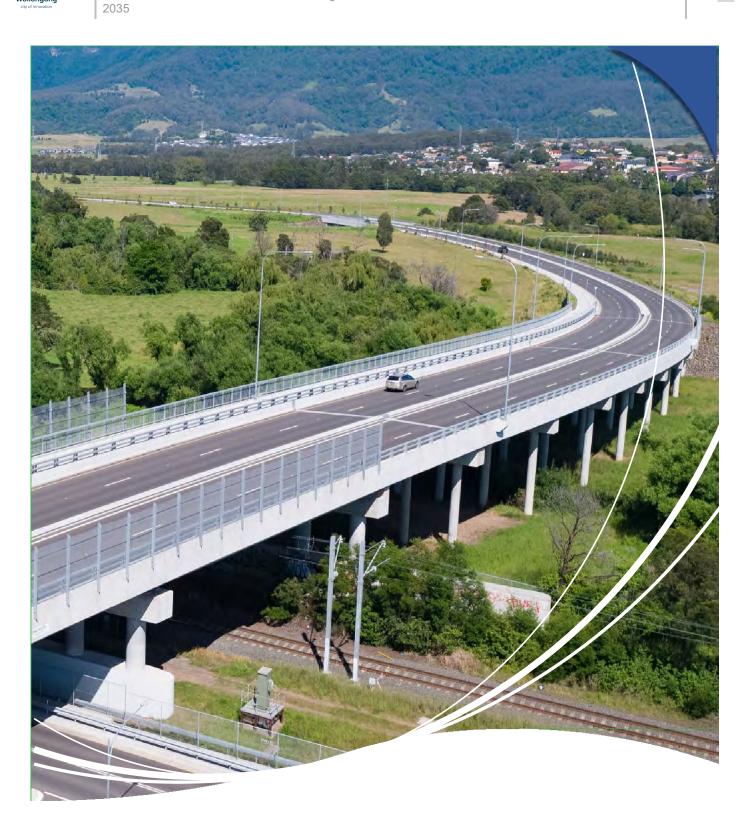
CONCLUSION

The draft Our Asset Plan – 2025-2035 provides a comprehensive review of all community assets under Council control and provides an opportunity for Council and the community to consolidate a range of actions that will support the long-term sustainability of infrastructure provision.

Wollongong City Councils Asset Management Plan 2025-2035 is a critical tool for ensuring Council manages its infrastructure in a responsible, forward-looking, and community-focused manner. With a strategic focus on lifecycle planning, risk mitigation, and service outcomes, the AMP positions Council to meet the infrastructure challenges of a growing and changing city.

It is recommended that the draft Asset Management Plan - Our Asset Plan - 2025-2035 document be endorsed for exhibition for a minimum period of 28 days from 7 May to 4 June 2025 and the postexhibition Plan be presented to Council for adoption with the suite of documents including Our Wollongong Our Future 2035 Community Strategic Plan, Resourcing Strategy 2025-2035, Asset Management Policy, Delivery Program 2025-2029 and Operational Plan 2025-2026, including the Budget 2025-2026, Infrastructure Delivery Program 2025-2026 to 2028-2029 and Revenue Policy, Rates, Annual Charges and Fees 2025-2026.





Wollongong City Council

Our Asset Plan 2025-2035







Acknowledgement of Country

We acknowledge the Traditional Custodians of the land on which our city is built, Dharawal Country. We recognise and appreciate their deep connection to this land, waters, and the greater community. We pay respect to Elders past, present and those emerging and extend our respect to all Aboriginal and Torres Strait Islander people who call this city home. We recognise Aboriginal and Torres Strait Islander people as the first people to live in the area. We respect their living cultures and recognise the positive contribution their voices, traditions and histories make to the city.



2035

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Our Wollongong Our Future 2035 Community Strategic Plan

Our Wollongong Our Future 2035 represents the highest level of strategic planning undertaken by Council. The Community Strategic Plan is a shared community vision to inform action over a 10-year horizon. It identifies the following Vision and Goals as determined by our community:

We are a sustainable and climate resilient city We have well planned, connected, and liveable places We foster a diverse economy, and we value innovation, culture, and creativity We have a healthy, respectful, and inclusive community

Council's Delivery Program and Operational Plan responds to the community's vision and goals and outlines the services and projects that Council has capacity to deliver. The Resourcing Strategy outlines the finances, assets, workforce, and information management technology required to achieve the Program and Plan.

This document, *Our Asset Plan 2025-2035* is a key component of the Resourcing Strategy. It provides a summary of the assets that we manage on behalf of the community, what service levels we provide, the future demand, how we intend to manage assets over their lifecycle, and the projected costs.

Our Values and Purpose

We are committed to being a local government of excellence that enhances our city's quality of life and environment through effective leadership, community involvement and commitment to service. As a purpose-led, values driven organisation our values are part of everything we do every day and provide the foundation of our organisational culture and guide how we deliver the strategies and actions.

Enabling daily work that encourages collaboration, innovation, interdependence, belonging and inclusion Living the values in everyday work through behaviours and interactions Supporting and enabling people to deliver on the promise of an Extraordinary Wollongong

OUR VALUES IN ACTION















Executive Summary

1 Executive Summary

The community have set a vision for Wollongong, and identified four goals that will help us achieve that vision. This asset plan forms part of our supporting document structure that outlines how we will achieve the goals that the community have set through the services we provide, and the assets required to deliver the services. The purpose of this asset plan is to outline why we provide assets, what assets we provide and how we manage them over the long-term.

Our Asset Plan 2025-2035 is a strategic level document that includes a policy, strategy, and individual plans for all assets under Council control, including road and transport; stormwater and floodplain; open space and recreation; buildings and facilities; plant, fleet and equipment; library collection and resources; information management and technology; and artwork, antiquities, and memorial collections. The plan groups assets by type to ensure that we have a comprehensive and systematic approach to managing similar assets, regardless of location or service supported.

We used the results of our community satisfaction survey to inform us about our performance and the priorities of the community relating to services and facilities. We also look at a range of internal and external operating drivers to develop levels of service for each group of assets.

Future demand is linked to the forecast population growth in Wollongong, with densification in existing suburbs and growth through land development in the West Dapto precinct. Population growth creates opportunities and challenges for our services and the assets required to support services.

Sustainable asset management requires a lifecycle approach that starts from the initial planning and inception of an asset, through the design and delivery phase, the operate and maintain phase, through to the decommissioning and disposal of the asset. Decisions and actions throughout the lifecycle of the asset can have significant impact on the cost to provide function and serviceable assets. We need to ensure we maintain this long-term view as part of our considerations in asset planning. It is particularly important when considering new and expanded assets and reviewing asset renewal requirements.

With over \$7 Billion in community assets, and annual depreciation expenses expected to exceed \$88M / year by 2025/26, a plan on how we manage over the full asset lifecycle is essential for financial sustainability. The ability to renew assets when they require it and continue to fund new and expanded service provisions will create challenges into the future. We have experienced the impacts of the challenging global economy over the last few years, which have increased service delivery costs. This is a major driver for reviewing practices around lifecycle management.

This plan outlines the key risks and threats to assets including resilience to climate hazards, the lifecycle actions and key responsibilities across the organisation involved in managing assets. The plan provides focus for the key strategic matters that need to be considered and managed. This strategic document will be supported by more granular operational plans over time for specific roles and functions in the lifecycle management of assets.

To ensure we maintain our journey of increasing our asset management maturity, an improvement plan has been provided as part of this plan. It outlines the discoveries and opportunities identified from the investigation and research undertaken. The actions are allocated to a responsible role within the organisation to review an indicative timeframe.

It is intended that this plan becomes a living document and is updated regularly as improvements are implemented and resolutions are made that impact the basis of estimates in the plan.





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2 Strategic Context

2.1 What is an asset?

The Australian Accounting Standards Board describes an asset as: "a resource controlled by the entity as a result of past events and from which future economic benefits are expected to flow to the entity."

Assets are items controlled by Council that we use to support and deliver services. This includes items such as roads, buildings, stormwater infrastructure, pools, library books and many other groups as outlined in Section 12 of this plan. This plan focusses on financial assets as we have a legal obligation to account for these types of assets. Financial assets typically have a life of over one-year, have a minimum value of \$5,000-10,000 (depending on the asset type), and the value can be reliably measured.

Council also controls many non-financial assets that provide an important role in meeting our community strategic objectives. Non-financial assets are typically short life, low financial value, and/or don't have a tangible and reliable method of determining the economic benefits. This plan includes limited reference to activities required to manage non-financial assets. This is primarily in the open spaces section of the plan where we undertake maintenance on natural assets. Natural assets typically do not have a financial value placed against them due to the complexity of reliably valuing these assets. This does not mean that natural assets are not valued – they are key to meeting our community vision and goals.

2.2 Wollongong is a City of Innovation

The vision and goals of our community drive our services and actions. To be a City of Innovation, we need to ensure that our supporting documents, including this asset management plan are aligned to the vision and goals.

Community Vision

On Dharawal Country, from the mountains to the sea, we value and respect each other, our places, past, and future. We will be a sustainable, connected, vibrant, and innovative city, with a diverse economy.

Community Goals

Wollongong is Sustainable Connected Vibrant Inclusive

We are a sustainable and climate resilient city

We have well planned, connected, and liveable places

We foster a diverse economy, and we value innovation, culture, and creativity

We have a healthy, respectful, and inclusive community

With an area extending over 50km from Helensburgh and Lilyvale in the North to Haywards Bay and Marshall Mount and Windang in the South, and a population estimate of over 219,000 people (at 30 June







2023), we enjoy a diverse natural and built environment for living, learning, creating, and connecting as a community.

As a local government, Council provides a range of services to achieve the vision and goals of the community. Our responsibility is to work with the community to plan for the current and future generations of Wollongong in a sustainable way. This to ensure intergenerational equity, so that the community of Wollongong can experience the benefits of the environment, a secure economy and vibrant city that is accessible with a community that is healthy and connected.

2.3 Infrastructure to Support Service Delivery

Council's Delivery Program and Operational Plan responds to the community's vision and goals and outlines the services and projects that Council has capacity to deliver. It is a result of rigorous planning and prioritisation and aims to provide the best valuable services to the community. The Resourcing Strategy outlines the finances, assets, workforce, and information management technology that will be used to achieve the Program and Plan. Council's 33 Services form the foundation of the Delivery Program and Operational Plan. Council's Services are presented under their best fit goal. These services are described in the Delivery Program and Operational Plan.





Some of the asset categories that support services include:

- Roads and bridges
- Information management and technology
- Pathways
- Buildings
- Office equipment
- Library collection

- Stormwater
- Open space and playgrounds
- Artworks
- Pools
- Plant, fleet and equipment
- Waste management

Below is a summary of the services and assets provided by Council that help us achieve the goals in the Community Strategic Plan:

Goal 1 We are a sustainable and climate resilient city			
Service	Infrastructure Asset Relationship	Assets Utilised	
Botanic Garden & Annexes	 Manage and promote the conservation, education, recreation, and aesthetic values of the main 30-hectare site in Keiraville, including the maintenance of the Gleniffer Brae and grounds, and the three natural area annexes of Mt Keira, Puckey's Estate and Korrongulla Wetland. Maintain, renew and provision of supporting infrastructure at Botanic Gardens and annexes including car parking, pathways, bridges, drainage, buildings, vehicles, etc. 	BuildingsOpen spaceFootpathsStormwaterPlant and fleet	
Environmental Services	 Monitoring of emissions and resource usage associated with operating assets. Providing guidance and strategic direction on future environmental impacts. Working with the community to determine service levels for environmental impacts associated with infrastructure. Provide guidance and strategic direction on materials used in the built environment. Prepare and coordinate implementation of environmental strategies including Climate change mitigation and adaptation plans, Costal Management Programs Plan for predicted increases in sea level and frequency and severity of extreme weather due to climate change. 	 ICT Assets Office Equipment and Furniture Buildings Stormwater Infrastructure Fleet 	
Floodplain Management and Stormwater Services	Develop and implement programs for flood and stormwater assets new, renewal, maintenance, and upgrade; including pipes and culverts; pits; open channels and public waterways; stormwater quality improvement devices; detention basins; and flood mitigation measures.	StormwaterOpen SpaceLandOffice and other assets	



	 Develop and implement floodplain risk management plans. Implement flood and stormwater related actions of Council's strategic documents. Inspect stormwater infrastructure and undertake priority maintenance or upgrade works to maximise public safety. 	Plant and fleet (maintenance)
Natural Area Management	 Coordinate natural area restoration works at priority sites. Continue implementation of priority actions from the Dune Management Strategy 	 ICT Assets Office Equipment and Furniture Open Space Buildings Fleet
Waste Management	 Domestic waste collection, recycling, on-call household clean-up and organics collection. Public bin and litter collection and cleaning of public toilet facilities. Operation of Wollongong Waste and Resource Recovery Park at Kembla Grange. landfill and resource recovery assets landfill compactor and other plant side arm and rear loader trucks public litter bins Provision of residential collection bins prepare and coordinate implementation of Waste and Resource Recovery Strategy 	 Plant and fleet Buildings and facilities Open Space Land Roads

Goal 2 We have well planned, connected, and liveable places		
Service	Infrastructure Asset Relationship	Assets Utilised
Development Assessment	Assessment and determination of planning matters relating to infrastructure.	 ICT Assets Office Equipment and Furniture Buildings Fleet
Emergency Management	 Provide and maintain buildings with facilities for amenities, training, storage and garaging for the local Rural Fire Service brigades and State Emergency Service units. Maintain vehicles, equipment for the local RFS brigades and SES units. 	 Buildings and facilities Plant and Fleet Roads (fire trails) Information management and technology



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	 Provide mechanical support in relation to RFS fleet maintenance and undertake maintenance to emergency facilities. 	
	• Provide operational response to support emergency combat agencies during incidents and emergencies.	
	 Contribute to the ongoing maintenance of the two Illawarra Emergency Operations Centres (Wollongong and Albion Park). 	
	Fire trail management and maintenance.	
	 Management of asset protection zones and vegetation buffers for Council assets. 	
	Plan for predicted increases in frequency and severity of extreme weather due to climate change.	
Land Use Planning	Prepare Local Environmental Plans and Development Control Plans.	ICT AssetsOffice Equipment
	 Prepare Plans of Management for community and Crown lands. 	and Furniture • Buildings
	 Develop town and village plans to enhance the public domain. 	Infrastructure Fleet
	 Plan and manage the West Dapto Urban Release Area and carry out partnerships to facilitate the infrastructure and facilities required to support the growing community. 	Tiect
	 Prepare and implement Development Contributions Plans and Planning Agreements. 	
Memorial Gardens and Cemeteries	 Provide memorial, burial, and funeral service facilities at six sites across the Local Government Area. 	LandOpen spaceRoads
	 Maintenance of the Memorial Gardens and cemeteries. 	Plant and fleet
	 The provision of funeral service facilities, burial, and memorial sites. 	

Property Services

- This service manages over 450 leases and licenses on behalf of Council and includes the management, development, maintenance, and disposal of Council owned property to meet Council's statutory requirements and contribute to the expansion of Council's revenue base.
- Leases and licenses also ensure the effective management and coordination of community and business use of Council's public spaces, buildings and facilities Identify property-based investment opportunities.
- Review, update and deliver Property Strategy.
- Manage Council's commercial property portfolio including purchases, sales, and leasing.

Regulatory Compliance

- Council's role as the local impounding authority in educating, managing, and implementing animal
- **Buildings**

Buildings

ICT Assets

and Furniture

Office Equipment

Asset Management Plan



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	registration and identification (microchipping) and provision of animal pound service. • Monitoring, investigation, and enforcement services related to unauthorised and non-compliant development, environmental protection, swimming pool barriers, air/water and noise pollution, illegal dumping investigation, and abandoned vehicles / articles.	 ICT Assets Office Equipment and Furniture Fleet
Transport Services	 Provide the delivery, management, and advocacy of transport infrastructure. Road Safety, Traffic and Transport Planning Roads and Bridges Footpaths, Cycleways and Transport Nodes Car Parks and Boat Ramps Transport facilities including Street Lighting Street Sweeping 	 Roads Footpaths Shared paths Cycleways Transport facilities Car parks Bus shelters and seats End of trip facilities

Goal 3 We foster a diverse economy, and we value innovation, culture, and creativity		
Service	Infrastructure Asset Relationship	Assets Utilised
Arts and Cultural	 Manage the Creative Wollongong Studio's, providing workspaces for Wollongong based artists, alongside programming opportunities in the nearby Arts Precinct that supports revitalisation and employment for artists. Facilitate the Lower Town Hall as a creative space. 	BuildingsOpen spaceArtwork and monuments
City Centre Management	 Manage the operations of the City Centre, including day-to-day management, security, CCTV operations, graffiti removal, events and activation opportunities and marketing. Civil, amenities, and grounds maintenance and Crown Street Mall access - including vehicle permits 	TransportOpen SpacePlant and fleetArtwork and monuments
Economic Development	 Responsible for Economic Development strategy that informs infrastructure actions to support local business and investment. 	ICT AssetsOffice Equipment and Furniture
Engagement, Communicatio ns-ns and Events	 Provision of design, printery, and sign shop. Support communications and engagement on infrastructure projects. Support for community events. 	BuildingsOpen spacePlant and fleetOffice and other assets
Tourist Parks	 Provide holiday accommodation for tourists through the provision of accommodation such as cabins, powered sites, unpowered sites, and annual sites. 	BuildingsOpen spaceTransport



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Maintenance of internal roads; landscape; and playgrounds

Goal 4 We hav	re a healthy, respectful, and inclusive community	
Service	Infrastructure Asset Relationship	Assets Utilised
Aged & Disability Services	 Provision of assets (fit out, mobility devices, etc) to support aged and disability services. Direct provision of Community Transport Services to people aged over 65 years, or who are transport disadvantaged to maintain access to essential services and participation in community life. Upgrade of accessibility of existing assets. 	BuildingsFleetOffice and other assets
Aquatic Services	 Provide affordable and equitable access to beach and pool recreational services. Provision of facilities for beach patrols (vehicles, beach equipment, towers, buildings, etc). Foreshore waste collection and beach cleaning Monitor and implement appropriate responses to ensure improved mobility, surveillance, surf education and emergency response. Operate and maintain two heated swimming pools at Dapto and Corrimal. Operate and maintain six public swimming pools located at Helensburgh, Thirroul, Western Suburbs (Unanderra), Continental Baths (Wollongong), Port Kembla and Berkeley. Maintain nine ocean rock pools situated at Coalcliff, Wombarra, Coledale, Austinmer, Bulli, Woonona, Bellambi, Towradgi, and Wollongong Gentleman's pool. 	 Buildings Pools Open space Plant and equipment
Community Facilities	 This service manages and operates 56 Council-owned community facilities across the Wollongong Local Government Area. This includes Neighbourhood Centres, Senior Citizens Centres, Childcare Centres, Libraries, Community Centres and Community Halls. Provide support for not-for-profit groups via the provision of access to community assets. Maintain, improve, and reinvest in community facilities to better meet the needs of community groups, including compliance and improved sustainability. 	BuildingsICT AssetsOffice Equipment and Furniture
Community Programs	 Involve children in Council's planning and decision-making processes. Deliver projects and activities which aim to reduce crime and increase the perception of safety in the community (Graffiti removal). Provide internal advice on access, planning and community safety. 	 ICT Assets Office Equipment and Furniture



 Coordinate Council's Integrated Planning and Reporting including the development of Community Strategic Plan, Delivery Program and Operational Plan. Oversee Service Reviews to improve customer service and optimise service delivery. Provide strategic analysis and project management support as required. Report on Council's key performance measures. 	 ICT Assets Office Equipment and Furniture
Support for community expectations relating to levels of service	Office and other assets
 Operate efficient, well managed businesses providing a return to Council at Beaton Park and Lakeside Leisure Centres which provide a range of health and fitness opportunities to the community. 	BuildingsOffice Equipment and Furniture
 The service is delivered from seven libraries and 10 street libraries across the city, and through the Home Library Service, and a range of online services. Provision of library space and resources 	BuildingsLibrary resourcesICT AssetsOffice Equipment and Furniture
 Operate 530 parks and reserves, 193 playing fields across 85 sports grounds, 7 outdoor fitness stations, 9 turf wickets, 156 playgrounds and Russell Vale Golf Course. Provision of safe playground equipment in appropriate locations based on equity and inclusion. The Russell Vale Golf course includes maintenance and operation of the 18-hole public golf course. Undertake high priority funded works, as per Council's adopted Landscape Masterplans. Develop and implement the Landscape Masterplans Implement recommendations of the Public Toilets Strategy 2019-2029 to improve accessibility. Manage the multi-use criterium cycle track at Lindsay Maynes Park, Unanderra 	Open space Plant and fleet
Provision of assets to support Public Health and Safety services including vehicles, IM&T, CCTV, office space	ICT AssetsOffice Equipment and Furniture
 Youth Services provides a program of recreation, cultural and education activities to meet the needs of young people aged 12 - 24 at Wollongong Youth Centre and across the Wollongong Local Government Area. Provision of assets to support youth services 	BuildingsICT AssetsOffice Equipment and Furniture
	Reporting including the development of Community Strategic Plan, Delivery Program and Operational Plan. Oversee Service Reviews to improve customer service and optimise service delivery. Provide strategic analysis and project management support as required. Report on Council's key performance measures. Support for community expectations relating to levels of service Operate efficient, well managed businesses providing a return to Council at Beaton Park and Lakeside Leisure Centres which provide a range of health and fitness opportunities to the community. The service is delivered from seven libraries and 10 street libraries across the city, and through the Home Library Service, and a range of online services. Provision of library space and resources Operate 530 parks and reserves, 193 playing fields across 85 sports grounds, 7 outdoor fitness stations, 9 turf wickets, 156 playgrounds and Russell Vale Golf Course. Provision of safe playground equipment in appropriate locations based on equity and inclusion. The Russell Vale Golf course includes maintenance and operation of the 18-hole public golf course. Undertake high priority funded works, as per Council's adopted Landscape Masterplans. Develop and implement the Landscape Masterplans Implement recommendations of the Public Toilets Strategy 2019-2029 to improve accessibility. Manage the multi-use criterium cycle track at Lindsay Maynes Park, Unanderra Provision of assets to support Public Health and Safety services including vehicles, IM&T, CCTV, office space Youth Services provides a program of recreation, cultural and education activities to meet the needs of young people aged 12 - 24 at Wollongong Youth Centre and across the Wollongong Local Government Area.

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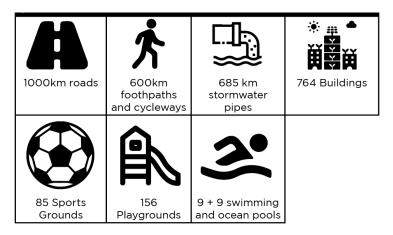
Purpose of the Plan

3 Purpose of the Plan

3.1 Why we do it

Our Wollongong Our Future 2035 outlines the community's vision and goals for the future of Wollongong. We deliver on this vision through the provision of 33 services. Each service requires assets to help facilitate and deliver these services.

The community has contributed over \$7 Billion into a diverse range of assets to support these services. Over the life of the 4-year delivery program, we are looking at investing \$539M into capital works in addition to \$246M into operations and maintenance expenses on infrastructure. As an organisation, we need to apply a systematic approach to manage this portfolio of infrastructure assets to make sure that we provide these assets in a safe, sustainable, and efficient way.



3.2 Asset Management – The What

Our approach to managing assets is described in this plan. It outlines a range of actions to help guide sustainable decision making to reduce the asset life cycle cost over the long-term. This plan outlines:

- the assets provided for the community's use;
- the levels of service on how we plan to maintain and provide these assets over a ten-year period;
- the anticipated future demand and how that impacts asset provision;
- a review the lifecycle management of assets and the costs to not only build and replace, but also to operate and maintain them;
- a review of the financial implications and forecasts with providing and operating assets; and
- how we will approach, monitor and review our performance managing assets.

3.3 Asset Management – The How

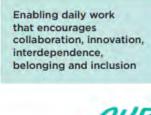
This plan is prepared by Council with a range of source information and local practice to inform the content. We utilise an enterprise asset management system to store data relating to approximately 182,000 assets. The system helps decision making with data and tools for analysis, but it is input from the community that shapes the recommendations and decisions on asset management. We recognise the importance of the partnership between community, elected councillors, council officers, government, and industry partners in asset management.





Purpose of the Plan

Our team at Council is committed to being a local government of excellence that enhances our city's quality of life and environment through effective leadership, community involvement and commitment to service. Our values drive actions through:



Living the values in everyday work through behaviours and interactions Supporting and enabling people to deliver on the promise of an Extraordinary Wollongong

OUR VALUES IN ACTION











Our Asset Plan includes an asset management policy, strategy and asset plans into one comprehensive document. The plans summarise each class of assets under Council's control.



The Asset Management Policy is attached at Appendix A. It outlines the broad framework for undertaking asset management in a structured and coordinated way, aligned with Community Strategic Plan. It outlines why and how asset management will be undertaken; gives clear direction for asset management defining the key principles that underpin asset management for that council; and promotes sustainability to protect the needs of future generations.

The strategy outlines our approach to achieving the vision and principles of the policy. The Asset Strategy is included as a key element of the Council's Resourcing Strategy 2035. The strategy summarises the current situation; identifies where we want to be; and reviews sustainability and resilience of our assets. The strategy identifies the alignment to the direction set by Community Strategic Plan, and gaps solutions that address the issues through the improvement plan. The strategy identifies assets that are critical to the council's operations. Documents and demonstrates an integrated approach to planning and coordination of asset management across the various asset groups.

The asset plans are grouped in Section 12 Asset Management Plans, and cover all the assets under council's control. We identify the asset service standards, and actions and resources required to provide a

Asset Management Plan



2035

Purpose of the Plan

defined level of service in the most cost-effective way. For each class of asset, a long-term projection of asset maintenance, rehabilitation, renewal and replacement, including life cycle costs is provided. The investment forecasts are aligned with our Resource Strategy.

3.4 Legislative Context

The New South Wales *Local Government Act 1993* (the Act), provides principles for councils to carry out their functions in a way that facilitates local communities that are strong, healthy, and prosperous under the following categories:

- · Exercise of functions generally
- Decision-making
- Community participation
- Sound financial management
- · Integrated planning and reporting

The Act requires councils to have a long-term strategy (called its resourcing strategy) for the provision of resources to perform its functions. The resourcing strategy outlines how council will resource its strategic priorities, and includes 3 inter-related elements:

- 1. Long-Term Financial Planning
- 2. Workforce Management Planning
- 3. Asset Management Planning.

The statutory requirements for planning are mandated within the Integrated Planning and Reporting Guidelines issued by the Office of Local Government issued under section 406 of the Act.

Accurate data and a robust planning process is required to ensure that assets are managed and accounted for in an efficient and sustainable way on behalf of the Wollongong community. The key objective of asset management planning is to provide the required level of service for the community in accordance with the Our Wollongong Our Future 2035 in a cost-effective manner. Levels of service are key business drivers for asset planning, along with technical requirements that ensure financial and operational sustainability.

Our Asset Plan accounts and plans for all existing assets under control of Wollongong City Council, any new asset solutions generated through business proposals and listed in the Delivery Program, and assets contributed as part of development. This plan comprises an Asset Management Policy, Strategy and Plan (covering each asset class).

The document is a forward focussed plan spanning a 10-year horizon and includes:

- a Policy position of Council.
- the identification of assets that are critical to the council's operations including a risk management strategy for these assets.
- specific actions required to improve the council's asset management maturity and capability, projected resource requirements and timeframes.
- plans and service standards for all assets.
- long term projections for asset maintenance, rehabilitation and replacement including forecast costs to inform the long-term financial plan.

Assets enable the delivery of a range of important services to the community. A key issue facing local governments throughout Australia is the management of ageing assets in need of replacement while community needs and expectations are changing.





Purpose of the Plan

Infrastructure assets such as roads, stormwater drains, bridges, and public buildings present unique challenges because their performance and longevity can be difficult to determine, and planning needs to consider the peaks and troughs in expenditure to replace or upgrade these assets.

The construction and/or acquisition of new assets to support new or enhanced services presents challenges in funding the ongoing operating and maintenance costs necessary over the full lifecycle of the asset.

Council's Asset Management Policy, Strategy and Plans integrate to outline Council's approach to asset management for the safe, effective, and efficient management of assets, to support sustainable delivery of services now and into the future.

A Strategic Asset Management Planning Framework has been developed as part of this document to guide asset management across all parts of Council and create a clear picture of interrelationships and importance of services planning for defining asset requirements to support service delivery.

Where specific legislation applies, a list of relevant Commonwealth and State legislation for managing assets is provided within each asset plan.



Asset Management Plan Approach

4 Asset Management Plan Approach

Effective asset management requires a combination of people, data, processes, and systems. These four pillars provide the foundations on which we build our asset management policy, strategy, and plan.

The asset plan provides guidance on the recommended actions for assets across their lifecycle, from planning; delivery; operation and maintenance; to the end-of-life stage for assets. The plan is closely linked to supporting documents to identify levels of service and future demand for services, land use changes and related assets. We review risk management and critical service functions. Financial projections and scenarios are explored, which provides information for our long-term financial plan. We also review the implications on workforce resourcing to keep the overall system operating. Finally, we identify opportunities throughout the preparation of this document that we believe will improve our performance and long-term sustainability in managing assets and prepare an action plan.

This plan provides a consolidated view of all assets under Council's ownership or control. Whilst there are discrete differences in the way assets are managed, the following sections are provided for each group of assets in the asset management plan:

- 1. Profile
- 2. Strategic priorities
- 3. Asset snapshot
- 4. Future demand
- 5. Roles and responsibilities
- 6. Performance
- 7. Future investments
- 8. Improvement program

Recognising that there are approximately 180,000 assets under Council control, the plan for each group of assets is a summary for the group. It is intended as a strategic level document and not intended as specific asset management plans for each individual asset. For larger, more complex, or higher risk assets, an individual plan may be justified and prepared to support operational and maintenance plans.

Background information on several key principles and inputs for asset management are provided in the following sections.

4.1 Asset Management Practices

The key roles and responsibilities are detailed in the asset management policy, and further details provided within each asset plan.

Stakeholders with an interest in Council's asset management practices include users (community, business, clients, customers, visitors); regulators; service providers; utility providers; public transport operators; emergency services; and other Government Agencies.

Council commissioned TechnologyOne – OneCouncil in 2020 as the Enterprise Asset Management system. We are continuing the introduction and expansion of modules to assist with the management of assets as our maturity and capability grows. We continue to work on implementing the roadmap for the system and are currently progressing with the development of the Project Lifecycle Management, Strategic Asset Management, Rapid Defect Assessment, Field App and Work Management Modules. Preparation of this plan utilised the asset register and asset book from the system. Recent configuration of the test point



functionality has seen the import of extensive road surface and pavement condition information against each road.

The following table 4.1 outlines the application that supports our core asset management functions:

Table 4.1 - Information Systems

Information/Data	System
Customer Requests	TechnologyOne – OneCouncil
Financial/Accounting	TechnologyOne – OneCouncil
Records Management	TechnologyOne – OneCouncil
Mapping (GIS)	ESRI and IntraMaps
Asset Register	TechnologyOne – OneCouncil
Works Management	TechnologyOne – OneCouncil

Asset planning requires data to enable analysis to inform decisions. We have used the most up-to-date information to prepare this plan. A data confidence rating has been completed for each of the major infrastructure classes which is summarised in the Data Confidence section. As the plan to improve data confidence progresses, the confidence in the outputs of asset planning will improve. Observations on data confidence and areas for improvement will be noted in each asset class as part of the improvement plan.

Monitoring and review of asset management practices is a key business process. The asset management improvement plans that forms part of this document provide a road map for continuous improvement. The Asset Management Steering Committee is an internal working group with cross-functional representation responsible for monitoring and evaluating the progress of improvement actions set out in Council's Asset Management Plan.

4.2 Asset Lifecycle

4.2.1 Why?

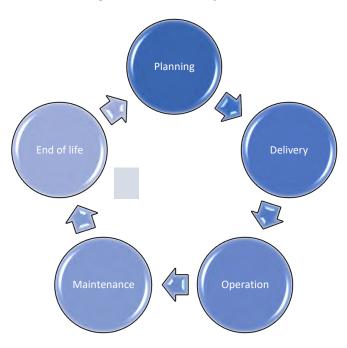
Council provides a wide variety of services to the community and these services are supported with networks of assets. The community invests a significant amount of funding for the construction and maintenance of assets every year. It is important that we look for ways to be sustainable and to ensure that assets remain safe, fit-for-purpose and functional over the period it is in service. For many long-life assets, the on-going costs of keeping the asset in service far exceeds the initial upfront cost of providing it. Throughout the life of an asset there are many decision points that affect service and cost. These decision points over the life of the asset is called the lifecycle.

4.2.2 What?

The asset lifecycle describes the period from the decision to provide an asset to the point at which the asset reaches the end of its service and the stages in between. Whilst lifecycles may vary slightly between types of assets, there are five broad stages as shown in Figure 4.2.2 below.



Figure 4.2.2 - Asset Lifecycle



- 1. Planning describes the tasks associated with investigating the required asset solution to support the service and includes:
 - Master planning
 - o Feasibility and business plan
 - o Concept development
 - Project scoping
 - o Functional assessment and condition monitoring
 - o Renewal, expansion or repurpose
- 2. Delivery includes the processes of bringing the asset into service such as:
 - o Site investigations survey, geotechnical,
 - o Design development
 - Approvals statutory
 - o Construction/procurement
- 3. Operation Once an asset is delivered, it moves into the operation phase. These are the activities to keep the asset in operation to provide the service, including:
 - Staffing of facility
 - Utility costs
 - o Cleaning
 - o Pest control
 - o Street sweeping
 - Security



- o IT Support
- Waste management
- Insurance
- Compliance (certification costs)
- 4. Maintenance the maintenance stage commences upon completion of the delivery stage. This describes actions to keep the asset in an acceptable condition and increase the likelihood of the asset achieving the expected useful service life, such as:
 - Repairing potholes in roads
 - Footpath repairs
 - Protective surface coatings
 - Servicing
 - o Gutter cleaning
 - o Airconditioning filter cleaning and servicing
 - Replacement of a pressure pump
- 5. End of Life
 - o Demolition and disposal
 - Sale of asset e.g. vehicles
 - Make-good costs once the asset is removed.

Most long-life assets will require renewal at some point in the lifecycle. Some assets will be expanded to provide additional capacity or repurposed to provide an alternate service. At this point the asset moves from renewal to also including an upgrade with appropriate business case approval stages undertaken.

The lifecycle will end at the *End-of-Life* stage where the decision is made to retire an asset and not replace it. Alternatively, the asset lifecycle is continuous where the decision is made to renew an asset.

4.2.3 How?

At each stage of the lifecycle, there are specific considerations relating to resources, risks, challenges, processes, approvals, and legislative compliance. Stakeholders and impacts may vary throughout the lifecycle stages. For these reasons, the lifecycle of assets forms a key consideration of asset management planning, particularly when considering providing new and expanded services, supported with additional assets.

Historically, focus has been placed on the financial impacts of the upfront capital cost of providing new infrastructure, whilst not fully understanding lifecycle costs. We recognise that the provision of new infrastructure creates an ongoing liability to operate, maintain, renew, and decommission the asset.

The costs associated with an asset across the lifecycle will form part of the financial projections in this asset management plan and will provide direct inputs for the Long-term Financial plan. The lifecycle projections will also be used to inform the workforce management plan and impacts on the people required to provide the service and asset. This is particularly important for growth in infrastructure portfolios to support growth in the community in areas like West Dapto. We will model forecast growth and supporting infrastructure in this plan. With Council's commitment to climate change mitigation, decommissioning assets will become a significant stage in the decision-making process to understand the embodied carbon impacts during the lifecycle of the asset.



4.3 Useful Life Estimates

4.3.1 Why?

Assets will continue to provide service for a finite period with the period being influenced by several factors associated with the physical asset; service need and customer expectations; obsolescence and changes in technology; cost of service; and external influences.

4.3.2 What?

The term *useful life* describes the time that the asset is expected to be available to support the service at the agreed service level. The useful life is not necessarily how long the asset will last before it breaks. It is a measure of the most appropriate time to either renew, retire, or dispose of the asset based on the factors previously mentioned. In the case of building structures, the useful life is generally forecast over a long period of 60 years, however in the case of light vehicle fleet it may be five-years or distance travelled.

4.3.3 How?

In assessing the useful life of assets, considerations may include:

- · Physical condition looking at defects, deterioration, and age of the asset.
- Cost to operate and maintain as assets deteriorate and age, costs generally increase to keep it in service
- Efficiency and energy consumption changes in technology can provide benefits in reduction of energy use through greater efficiency. Targets for emission reductions may reduce the useful life of high energy usage assets.
- Risk Management consequence of the asset not being available for service, and whether the asset continues to provide the service safely.
- Legislative Compliance changes in legislation may require modifications to an asset or introduce redundancy. An example is the requirement to install thermostatic mixing valves to reduce the risk of scalding from hot water taps introduced a capital cost and an annual compliance check.
- Functionality and Utilisation this is a measure of whether the service is still required to be provided in the way the asset supports, or if there is a change in service demand.
- Capacity in some instances the asset may reach capacity and will no longer be able to provide service, and example of this is a landfill cell.
- Damage this can be a result of damage suffered in service through service users or external influence such as accidental damage (e.g., car accident), vandalism, and impacts from natural events.

Each year we undertake a review of assets in service to consider whether there are factors that may impact the current assessment of the remaining useful life. This is part of the annual review of fair value, and it may result in adjustments to extend or reduce the useful life. An example of an extension to the useful life occurs after an inspection of a building roof reveals that it is not deteriorating at the rate forecast, and the life is extended. Alternatively, we may find that a reduction in useful life occurs where storms have damaged a roof or stormwater structure.

Our general approach to managing useful life of infrastructure assets is to keep the asset in service for the longest period that is financially sustainable while delivering the agreed service to the community. We will



monitor that the service continues to meet service demands, legislative requirements, fit for purpose and safe.

Forecasting the useful life of long-life assets can be challenging as we may not have experienced the end-of-life period for some asset types. Looking at the design life is an indicator, but actual useful life may be significantly longer. As an example, concrete pipes may have a design life of 50 years, however they may continue to provide service for 80-plus years. Assets with a long useful life profile include footpaths, road pavements and stormwater, that may have an estimated useful life of 80 plus years. We monitor condition for signs of deterioration to test and evaluate the remaining useful life.

The age profile enables us to understand performance and predict when we will need to intervene with planned maintenance and renewal works. With long-life assets with a service life of over 40 years, we plan at network level initially and then refine to program level and project level as the intervention period gets closer. We use available information relating to actual works performed, current condition assessments, and age to forecast planned maintenance and renewal works.

4.4 Age of Assets

Understanding the age profile of assets helps us determine and predict the remaining useful life of assets over the long-term. It is critical to know the commission date of an asset to understand the actual age and/or the period it has been in service.

The discipline and systems for managing assets has evolved and improved over many years. The record quality to determine commission dates over the past 60 plus years is variable and where reliable information is not readily available, we have used a range of available historic data to estimate commission dates, including:

- · Age of subdivision
- Material and construction type
- · Historic aerial images
- Information on similar type of asset

To manage the risk of variable commission dates, we use samples of data that have been verified for accuracy to undertake detailed analysis. This approach improves the accuracy of the forecasts at a network level and provides greater reliability of intervention dates. We continue to monitor individual assets through condition inspections to enable specific adjustments over time.

4.5 Future Demand

4.5.1 Wollongong Local Strategic Planning Statement 2020 and draft Local Strategic Planning Statement 2025

The draft Local Strategic Planning Statement (LSPS) 2025 is currently out on exhibition until 7 May 2025. Pending Council endorsement of the LSPS 2025, Our Asset Management Plan 2035 will be updated to reflect the revised population forecasts and impacts. The endorsed LSPS 2020 has been utilised in this document.

Future demand in asset planning refers to known and forecast changes to the current level of utilisation of services provided by Council. As an organisation that exists to provide services to our community, the single biggest factor that impacts demand is change in population.



The population of Wollongong is forecast to grow by approximately 55,000 persons over a 20-year period. The Wollongong Local Strategic Planning Statement 2020 (LSPS) provides a 20-year vision for land use planning for the City of Wollongong. The LSPS is an important document for setting a roadmap for dealing with population increase in the face of the following challenges:

- Employment opportunities;
- Climate Change Resilience and meeting the Emissions Reduction Target;
- Housing the additional 55,000 people in appropriate locations;
- Creating great places;
- Supporting the population with culture, recreation, and social activities;
- Enabling infrastructure and transport both within Wollongong, and to the adjoining regions; and
- Protecting the environment, which is also the backdrop and the attraction of the area.

As a high-level strategic document, the LSPS is intended to demonstrate how the future growth and change will be managed and guided to link to the community vision and goals for Wollongong in the community strategic plan.

The LSPS references several supporting documents and identifies the actions that will help support and manage the future demand associated with the increase in population. The review of utilisation and capacity of assets and the planning for acquisitions is informed by the LSPS vision. The current LSPS is being reviewed based on updated forecasts and planning information.

4.5.2 Wollongong Housing Strategy 2023

The LSPS is supported by the Wollongong Housing Strategy 2023. This strategy outlines the plan for how and where housing for the population growth is planned to be accommodated. This provides guidance on the locations where increased demand for services will need to be considered and managed. It provides an insight into where we need to plan for changes in transport infrastructure including pedestrian and cycling links supporting infrastructure for public transport; upgrades to the road network; access to open space and recreation assets; and social infrastructure to provide access to libraries, community centres and social activities. Each of these services are supported by specific supporting documents that reference the LSPS and Housing Strategy to inform the location of planned population growth.

4.5.3 Supporting Documents

There are other demand drivers beyond growth in population that are likely to change the will impact services and assets, including:

- · Changes in demographics;
- Commercial and industrial mix and type;
- · Changes in and access to technology;
- · Working patterns and location (hybrid working);
- Global, National and State economic position;
- · Legislative changes;
- Climate and environmental changes;
- · Policy position.



Future demand for assets is driven by the service and people they support. The impact of these demand drivers on the services provided by Council is assessed in the supporting documents for the relevant service. This information feeds into the impacts on related assets in this plan.

4.6 Levels of Service

Levels of service relate to performance targets that Council sets to manage assets that support service delivery. We typically group levels of service into customer and technical levels of service.

Community levels of service are generally defined in terms of quality, function, safety, responsiveness, and capacity/ utilisation. Services planning is proposed to be further developed to include community levels of service and asset requirements to support service delivery. Performance related to customer levels of service is typically measured using biennial community survey results, utilisation statistics and condition/function data where available.

Technical Levels of Service describes how we aim to manage the asset so that it remains in service and available for use. These levels of service are more aligned to operational and maintenance activities and typically describe the actions we implement so that assets are safe and fit for purpose.

Technical levels of service are defined in terms of intervention levels and standards for lifecycle activities (i.e., operations, maintenance, renewal, acquisition, and disposal). These technical levels of service are used to establish and measure the performance of Council's lifecycle activities and delivery programs.

A summary of levels of service are provided within each asset plan.

4.7 Performance

Performance is a measurement of how well we can meet the expected levels of service. We look at three key factors – condition, functionality, and capacity.

- Condition is an indicator of technical level of service.
- Functionality and capacity are based upon customer levels of service.

Within each asset plan we provide a summary of the ratings and description of how we measure the factors.

Performance indicates how well we can achieve the targets set for the levels of service. In some instances, in may indicate where service plans have been optimistic and not aligned to our ability to fund the desirable level of service.



Roles and Responsibilities

5 Roles and Responsibilities

Role	Responsibility	Who
Wollongong Community	 Elect Councillors to represent and make decisions on behalf of the community (residents). Utilise assets responsibly. Participate in community engagement opportunities relating to assets. Set the vision for Wollongong through the Community Strategic Plan. 	Resident, Business, & Community Stakeholders
Asset Custodian	 Set guiding principles for the Asset Management Policy. Act as custodians for community assets by ensuring that their decisions represent and reflect the needs of the wider community. Adopt Council's Resourcing Strategy including the Asset Management Policy, Strategy and Plan. Delegate authority to the General Manager to undertake required responsibilities. Provide sufficient resources to maintain community assets to agreed levels of service as outlined in this Policy. 	Lord Mayor, Deputy Lord Mayor, and Councillors
Executive Asset Governance	 Championing asset management. Foster and support a multi-disciplinary asset management steering committee. Enable appropriate management arrangements, ownership, control, accountability, and reporting requirements. Review and monitor asset performance and asset management improvement actions. Delegate authority and accountability for implementation of this policy. Ensure alignment of the asset management policy with other policies and business processes of Council. Oversee compliance with Council's legal obligations. 	General Manager and Executive Management Committee
Asset Management Steering Committee	 Oversight of major decisions and direction of Strategic Asset Management practice within Council. Monitor and review the implementation of Council's Asset Management System. Monitor and evaluate the progress of improvement actions set out in Council's Asset Management Plan. 	Cross- functional group of Council officers
Service Management	Assess non-asset solutions to support service delivery.	



Roles and Responsibilities

	Identify new/expansion works for assets to support service delivery. Develop a business proposal to seek approval and funding.	
	Identify asset related impacts of statutory requirements relating to service delivery.	
	Ensure service plans is aligned with adopted strategies	
	 Consider land use planning strategies and plans when assessing service demand, growth, density, land use and future needs assessment. 	
	Work with the Asset Managers to specify requirements for the delivery of works in asset management plans.	
	Ensure alignment of design solution to project objectives and requirements.	
	Ensure designs achieve objectives in adopted strategies	Refer to
Project Delivery	Safe and sustainable delivery of projects identified and assigned in Council's Infrastructure Delivery Program to quality standards.	asset management plans
	 Consideration of asset management principles in the design and delivery phase of the project delivery. 	piaris
	Commissioning and handover of appropriate assets and related data.	
	Develop and apply Council's strategic asset management framework.	
	 Lead development, monitoring and review of the Asset Management Policy, Strategy and Plans and supporting procedures. 	
	 Develop, implement, monitor, and report on a continuous asset management improvement plan. 	
	Lead technical asset management practices.	
Asset	 Develop the Infrastructure Delivery Program linked to the supporting document roadmap. 	Refer to asset
Management	 Collect and regularly review condition data to support asset management planning. 	management plans
	 Resource and administer the Enterprise Asset Management System and related tools to support decision making, accountability and improvement. 	
	 Identify asset related impacts of statutory requirements relating to provision and operation of the asset. 	
	Monitor and report on asset management performance.	
	Develop and maintain whole of life costings.	
	Develop and implement a system to manage effective and efficient maintenance practices.	
Maintenance and	Apply the asset management principles in the delivery of maintenance services.	Refer to asset
Operation Management	Provide technical advice and support to Service and Asset Managers.	management plans
	 Identify asset related impacts of statutory requirements relating to maintenance and operating service delivery. 	
Information Technology	Develop and maintain roadmap for Enterprise Asset Management (EAM) system.	Chief Digital and



Roles and Responsibilities

Asset	Embed and optimise enterprise resource platform.	Information
Management	Review and enhance EAM business applications.	Officer
	Implement EAM Information Technology governance.	
	Improve Information Technology Asset Management.	
	Lead long-term financial planning and collaborate to ensure integration with asset management plans.	
Responsible	Accounting Champion asset accounting policy and procedures to align with the	
Accounting Officer		
	Establish and monitor appropriate accounting controls to provide assurance over accounting records relevant to asset management	



Related Policy and Procedures

6 Related Policy and Procedures

The main policy and procedure documents that guide and influence asset management planning are listed below:

- Asset Accounting Policy
- Financial Sustainability Policy
- Risk Management Framework
- Management of Community Halls, Community Centres, Senior Citizens Centres and Neighbourhood Centres
- Wollongong City-Wide Development Contributions Plan
- West Dapto Development Contributions Plan

Asset specific policies and supporting documents are listed with each asset plan.

7 Definitions

The following table summarises key definitions important in asset management.

Term	Definition
Asset	All non-financial assets recognised by the Council in accordance with the Australian Accounting Standards Board's Accounting Standards and Council's asset accounting policy. Includes infrastructure, property, plant and equipment, Artwork and antiquity collections, library collections, and ICT systems.
Asset Management	Systematic and coordinated activities and practices of an organisation to deliver on its objectives through cost-effective lifecycle management of assets.
Asset Management Framework	Outlines the structure and relationships between the various asset management system elements, such as the Asset Management Policy, Asset Management Strategy, Asset Management Plans, Asset Management Information System and asset management roles and responsibilities.
Asset Management Strategy	A high-level strategic plan that gives effect to this Policy
Asset Management Plan	Documented information that specifies the activities, resources or timescales required for an individual asset or grouping of assets, to achieve the organisation's asset management objectives.
Critical Assets	Assets essential to community safety, service delivery, or economic stability
Capital Expenditure	Expenditure above the thresholds as stipulated in the Asset Accounting Policy whereby the value of a non-current asset must be capitalised for each infrastructure asset class managed by Wollongong City Council. Works include Renewal; Expansion (or additions); Upgrade; and/or New assets.
Renewal Works	Expenditure on an existing asset or on replacing an existing asset that returns the service capability of the asset to its original capability. May include the replacement with a modern equivalent asset – e.g. replacing the roof on a building with similar roofing materials.
Upgrade works	Expenditure that enhances an existing asset to provide a higher level of service or extends the life beyond that which it had originally. This includes expenditure

Asset Management Plan



Definitions

	provision of a replacement asset at a higher level of service, that part of the cost that relates to upgrade
Expansion Works	Expenditure that extends the capacity of an existing asset to provide benefits to new users at the same standard as is provided to existing beneficiaries.
New asset	A new asset that provides service that does not currently exist. This should not be confused with the provision of a new asset that replaces an existing asset, such as replacing a section of stormwater pipe. This is considered a renewal as there was an asset providing the service previously
Maintenance	Work that is required to ensure the asset achieves the expected useful life and remains in an acceptable condition for use. It includes proactive and preventative maintenance, programmed servicing, repairs, and minor replacements.
Operating Expenditure	Operating expenditure includes works and services to keep an asset available and functional for use. It include inspections, certification, compliance, registration, utility costs (energy, water, communications), fuel, mowing, cleaning, and similar services.
Required maintenance and operational works	A range of activities and costs that are considered necessary to keep the asset in a condition that it is fit, safe and functional for use and meet the levels of service specified for the asset.
Sustainability	The practice of meeting current needs without compromising future generations' ability to meet their own needs.
Service	Activity as defined in the Delivery Program and undertaken to meet the needs of the community or the administrative support.
Level of Service	Defines the asset performance targets in relation to reliability, quality, quantity, responsiveness, safety, capacity, environmental impact, acceptability, accessibility and cost.
Lifecycle	The time from initiation of planning for the asset through to the decommissioning and disposal of the asset and all stages in between.
Lifecycle Costing	A method to evaluate the total cost of ownership of an asset over its entire lifespan
Whole of Life Cost	The total cost of an asset throughout its life including planning, design, construction, acquisition, operation, maintenance, rehabilitation, and disposal costs



8 Asset snapshot

As of 30 June 2024, our Wollongong community had an asset portfolio with a gross replacement value of \$7B. Infrastructure, Plant & Fleet, and Office and Other Assets constitute \$6B with the remaining \$1B comprises land, work in progress and remediation estimate for landfill sites. Approximately 99% of the \$6B asset value is Infrastructure, with the remaining 1% split evenly between Plant & Fleet, Office and other assets as shown in figure 8(a). A summary of the relative asset class values is provided in figure 8(b).

Figure 8(a) – Total Asset Percentage by Value

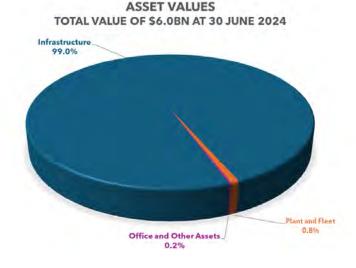
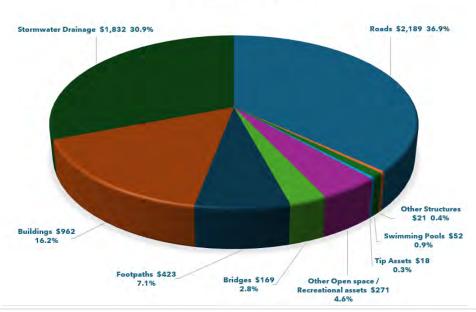


Figure 8(b) - Infrastructure Asset Classes by Percentage and Value







Over the 2021, 2022 and 2023 financial years, our asset portfolio has grown by an average of 1.9% per annum. The information in table 8(c) below on Infrastructure, Property, Plant and Equipment values is reported as part of the Annual Financial Statements under Section C, Financial position at statement C1-8.

Table 8(c) - Infrastructure, Property, Plant and Equipment values (at 30 June 2024)

Asset Class	Last full reval.	Gross replace cost	Accumulated Depreciation and impairment	Net carrying amount	Annual Dep. 2025 Budget
Capital work in progress	N/A*	88,503	0	88,503	N/A
Plant, fleet and Equipment	N/A*	48,486	-28,950	19,536	4,095
Office equipment	N/A*	13,065	-10,319	2,746	1,078
Furniture and fittings	N/A*	3,257	-2,332	925	285
Land					
Operational land	2019	367,911	0	367,911	N/A
Community land	2022	365,135	-760	364,375	N/A
Crown land	2022	120,906	0	120,906	N/A
Land under roads (post 30/06/2008)	2024	3,562	0	3,562	N/A
Infrastructure				0	
Buildings (non-specialised)	2024	429,019	-190,938	238,081	12,009
Buildings (specialised)	2024	533,215	-254,278	278,937	10,315
Other structures	2019	21,358	-6,003	15,355	961
Roads	2022	2,188,536	-1,214,770	973,766	29,181
Bridges	2022	169,139	-55,334	113,805	1,793
Footpaths	2022	423,100	-197,542	225,558	3,341
Stormwater drainage	2022	1,832,317	-843,399	988,918	9,218
Swimming Pools	2021	52,247	-37,683	14,564	752
Other open space / recreational assets	2021	270,698	-104,614	166,084	10,800
Other assets				0	
Heritage collections	N/A*	16,622	0	16,622	N/A
Library books	N/A*	10,012	-5,009	5,003	1,331
Other	2021	59,561	-16,744	42,817	2,943
Tip assets	2024	17,587	-9,410	8177	199
Total Infrastructure, Property, Plant and Equipment		7,034,236	-2,978,085	4,056,151	88,301

^{*}These asset classes are not subject to full class revaluation and are recognised at cost value



2035

8.1 Maintenance of Assets

An important indicator of sustainability is our ability to invest and complete the required maintenance to prevent the early decline of assets. The two parts of this indicator are directly linked to the long-term financial plan and the workforce plan. Firstly, is a measure of our ability and financial capacity to invest in the required maintenance for an asset. Secondly, is whether we have the right people and processes in place to undertake and deliver the required maintenance works.

We use an estimate of required maintenance as an input into lifecycle costing for assets, together with the capital costs, planned renewals, and operational costs. Maintenance is described as an activity required to keep the asset in service and to ensure it reaches the predicted useful life. It includes replacement of general wear and tear items, pothole patching, localised footpath repairs, etc. Maintenance does not extend the useful life of the asset beyond the previously predicted useful life – that would be considered rehabilitation/renewal works.

8.1.1 Required Maintenance and Operational Cost Forecast

Forecasting maintenance requirements is best derived from a program of proactive maintenance activities and estimate of reactive maintenance requests per asset class based on a history of requests. The proactive program and reactive work can be costed using a schedule of rates. Schedule of rates can be derived from historic actual costs for similar activities and contract rates. We are currently developing several proactive maintenance programs for a range of assets to help refine the required maintenance. We are also refining our work order structure to better determine cost of various activities to better inform estimates. In the interim, we generate a forecast of required maintenance investment based on a percentage of gross replacement cost.

To establish an appropriate percentage of gross replacement cost to invest in maintenance, we have reviewed our average actual expenditure and included the results from the community survey, where relevant.

Table 8.1.2 below summarises the percentage of gross replacement cost that we will adopt as the investment targets for maintenance of asset classes, and a description of the maintenance and operational activities that are included in the estimate:

Table 8.1.2 - Required Maintenance and Operating Costs by Asset Category

Asset Categories	Adopted Required Maintenance for lifecycle costing	Comment – and example costs and activities		
Maintenance and operational activity costs applicable to all asset classes include cleaning, minor repairs, asset inspections, associated stores, wages, and salaries of staff undertaking operation and maintenance, associated staff training, legal costs, printing and stationery, insurance costs, litter and dumped rubbish removal, and waste costs.				
		We are developing a schedule of proactive maintenance activities for different building types to inform a more accurate maintenance forecast. In the interim, we will look to maintain a consistent average.		
Buildings	2%	The forecast maintenance will be based on a 2% of gross replacement cost buildings.		
		Painting (minor), air conditioning, changing light fixtures, furniture repair, pest control, drain clearing, water and energy charges, elevator servicing, water and sewer charges, signage, security costs, mowing, waterproofing, fire		



		protection servicing, parking, goods delivery, phone servicing, IT servicing.
Other Structures	0.65%	Other structure are primarily picnic and bus shelters. Out community survey suggest it may be an area that we are over-servicing. The form of construction is typically powder-coated, and factory painted materials with minimal maintenance requirements. Operational activities such as cleaning will form a major component of the cost. We will take the opportunity to monitor the impacts of reducing expenditure on this group of assets to increase focus in other areas.
Roads (seal and base only)	0.88%	We have commissioned innovative technology to proactively monitor the condition of the road surface using artificial intelligence (AI). Cameras fitted to service tucks record images of the road network and AI software identifies defects. We anticipate an initial increase in our recorded defects moving from reactive to proactive approach. This will require additional funding to action maintenance work. We will also break down roads to allocate the percentage or replacement cost against the maintainable components (excluding earthworks and subbase). We exclude sub-base as it is unlikely to be subject of maintenance treatments. It is more likely to undertake patching of the base course layer. Activities include pothole repair, crack sealing, heavy patching (where the useful life remains unchanged), street lighting energy and operating costs, pavement markings, guideposts, vegetation control, mowing, roadside slashing, table drain clearing, grading unsealed surfaces, traffic control, signage (individual placement), utility works.
Bridges	0.5%	We have completed a detailed condition assessment of bridges and are currently developing a proactive maintenance schedule. There is currently a backlog of maintenance activities that requires our forecast to be slightly above the expected investment.
Footpaths	0.78%	We are scheduling a complete review of the footpath network in the next 18 months. This information will enable us to understand the overall condition and defects within footpaths. Based on the results of the community survey, additional focus is required on footpath maintenance. As a result, we are recommending that we maintain our average required maintenance at 0.78%.
Other Road Assets	0.6%	Other road assets include transport facilities, guardrails, etc. These assets have previously been reported under roads.
Kerb and gutter	0.44%	These assets have previously been reported under roads. An estimate of required maintenance has been identified that reflects the percentage of the kerb and gutter network in condition 4.
Street Furniture	0.1%	Includes items such as fencing, benches and seats, bollards, etc. These assets have previously been grouped under roads. We recognise that grouping under the major class of road is likely to overstate the maintenance requirements of these types of assets.



		These assets are typically shorter-lived assets than road pavements and are constructed of materials that are low maintenance.
Car Parks	0.5%	Car parks have previously been included under the major class of roads.
		Increased focus is required on stormwater maintenance to ensure our network is functioning efficiently.
Stormwater		It is recommended to maintain our average required maintenance at 0.42%.
Drainage	0.42%	CCTV, pipe blockage cleaning and associated disposal costs, pipe repair, tree root removal, repair pits and lids, clear/repair gross pollutant traps (GPTs), rain garden soil cleaning, rain garden plants, flood control device maintenance, traffic control, management of new connections.
Swimming Pools / Other Recreation		Refer below
		Swimming pools are classified according the OLG guidelines and include the pool shell only (not including buildings, plant, fleet and equipment, car parks etc. that are associated with the swimming pool complex).
Swimming Pools	5.33%	We have previously recorded swimming pools as a consolidated group with other recreation assets. We are currently developing a proactive maintenance schedule for pools.
		The OLG guideline for swimming pool maintenance includes Water cleaning costs, chemicals, membrane, and tile repair, repairing pool devices, repairing gym equipment, repairing shade structures, kiosk operations, advertising signs, and all building asset class example costs and activities.
Other Recreation	8%	We have previously recorded open space as a consolidated group with other recreation assets.
		Mowing, signage, pest control, play/sports equipment repair, path, repair, lighting energy and operating costs, tree maintenance, garden plants, gardening, line marking, fence painting and repair, events management, furniture repairs, water feature servicing, footbridges repair. For associated kiosks, grandstands, and amenities, refer to the 'Buildings' asset class; for associated drains, refer to the 'Stormwater drainage' asset class; for associated carparks, refer to the 'Roads' asset class.
Foreshore	0.74%	This category is described in the OLG guideline as Other Infrastructure Assets. The adopted percentage mirrors Other Infrastructure Assets.
Other Infrastructure Assets	0.74%	Levee bank maintenance, jetty maintenance, waste facility maintenance, rock/sea walls

The forecast for required maintenance will be adjusted to account for increases associated with planned acquisitions, and additions to assets, and decrements associated with planned decommissioning and disposals.



8.2 Data Confidence

A range of information is collected and stored in Council's asset management system to support asset management planning. Further information is covered in several individual asset management plans. It is important to understand the reliability of the data that underpins many of the assumptions and modelling in the plans. A confidence grading rating has been applied using the model as outlined in Table 8.2(a) below:

Table 8.2(a): Data Confidence Grading System

Confidence Grade	Description
Very High	Data based on sound records, procedures, investigations, and analysis, documented properly, and agreed as the best method of assessment. Dataset is complete and estimated to be accurate ± 2%. Observed condition rating and remaining useful life assessment completed within 5 years on over 70% of the network. Comprehensive revaluation completed within 2 years and inventory high or very high
High	Data based on sound records, procedures, investigations, and analysis, documented properly but has minor shortcomings, for example some of the data is old, some documentation is missing and/or reliance is placed on unconfirmed reports or some extrapolation. Dataset is complete and estimated to be accurate ± 10%. Observed condition rating and remaining useful life assessment completed within 5 years on 50-70% of the network. Revaluation completed within 3 years
Medium	Data based on sound records, procedures, investigations, and analysis which is incomplete or unsupported, or extrapolated from a limited sample. Dataset is substantially complete but up to 50% is extrapolated data and accuracy estimated ± 25%. Observed condition rating and remaining useful life assessment completed within 5 years on 30-50% of the network. Comprehensive revaluation completed over 3 years ago.
Low	Data is based on unconfirmed verbal reports and/or cursory inspections and analysis. Dataset may not be fully complete, and most data is estimated or extrapolated. Accuracy ± 40%. Observed condition rating and remaining useful life assessment completed within 5 years on 10-30% of the network. Comprehensive revaluation completed over 3 years ago and inventory is medium of lower.
Very Low	No or very little data held. Observed condition rating and remaining useful life assessment completed within 5 years on less than 10% of network.



Table 8.2(b) identifies the confidence levels associated with each asset class.

Table 8.2(b): Asset Information Confidence Grading Matrix

Asset Class	Inventory	Age	Remaining Useful Life	Gross Replacement Cost	Condition	Validation method
Artwork	High	High	High	Very high	Medium	Visual verification and stock take complete 2024
Plant, fleet and Equipment	Medium	High	High	High	High	Stock take
Buildings	Very high	Medium	High	Very high	High	Desktop review of land parcels, followed by visual inspection of each asset. Completed in 2024.
Stormwater	Medium	Medium	Medium	High	Low	The inventory has been generated based on historic information, flood study data and visual verification. Condition inspection of underground assets is undertaken by camera inspection of samples of the network due to cost constraints.
Marine structures	Low	Low	Low	Low	Low	This category of assets is included in the improvement plan to reclassify assets and develop a plan.
Playgrounds	High	High	Medium	Medium	Low	Annual visual inspection
Open space	Low	Low	Low	Medium	Low	Open space assets are planned for revaluation within 2 years. Data validation will be undertaken in conjunction with the revaluation.
Pools	Medium	High	Low	Low	Medium	Pool assets are planned for revaluation within 2 years. Data validation will be undertaken in conjunction with the revaluation. Inventory is rated as medium as the assets are currently consolidated per site rather than

Asset Management Plan



Asset Class	Inventory	Age	Remaining Useful Life	Gross Replacement Cost	Condition	Validation method
						identified per component.
Bridges	Very high	High	High	High	High	Level 2 inspection completed of network in 2021.
Transport facilities	High	High	Low	High	Low	Visual and desktop verification completed.
Street furniture, bus shelters and guardrails	High	High	High	High	Very high	Bus shelter and guardrails visual verification completed. Street furniture on-going.
Roads	Very High	Medium	High	High	Very high	Full network assessment undertaken, video capture and machine rated condition.
Pathways	High	High	High	High	Medium	Full network inspection scheduled within an 18- month period
Library resources	High	High	High	High	High	Stock monitored through collection system.
Information management and technology	Medium	Medium	Medium	High	Medium	Asset register and connected devices monitored electronically.
Other assets						To be defined
Non-Depreciable Assets (Land)	High	N/A	N/A	High	N/A	Land information register

We will continually improve our information to achieve a minimum standard of Medium across asset classes and criterion.





8.3 Age of Assets - Summary

The age of assets is illustrated below in Figure 6.3a using construction and/or acquisition dates. Assumptions have been made in many cases for assets constructed or acquired prior to 2000. These assumptions generally apply to transport and stormwater assets and are reflected with peaks in 1950, 1955, 1960, 1964, 1965 and 1970. The assets constructed pre-1950 are largely buildings.

Figure 8.3a shows the identified/assumed year of construction or acquisition for infrastructure assets by gross replacement cost for the asset groupings shown. A significant proportion (approximately 48%) of our assets are more than 50 years old. Many of these assets are high cost/long-life assets (transport and stormwater infrastructure) that have expected lives of around 80-100+ years.

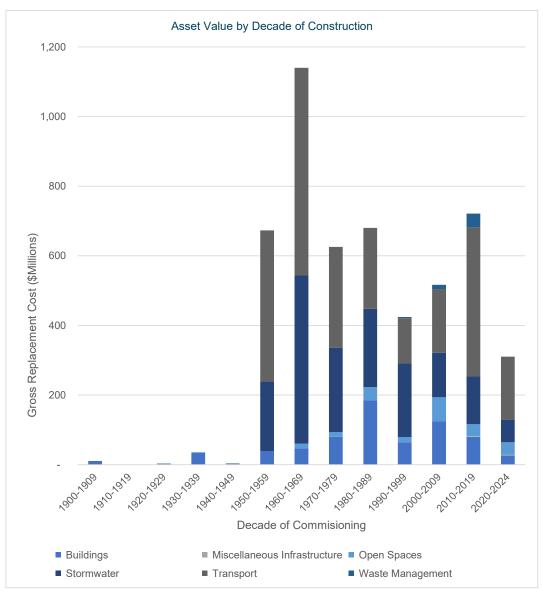


Figure 8.3a: Asset Age Profile



The expected lives for some key assets are shown in Table 8.3b. We have not yet reached the end of life for many of our long-life asset networks. The life expectancy has been derived based on the material and form of construction, observation of similar infrastructure types in operation in other locations (nationally and globally), industry guides and design life criteria. As we approach end of life, or we find examples of similar infrastructure in operation elsewhere with differing lives, we will revise our estimates on expected life. Our intention is to extract the longest possible service life from our infrastructure whilst managing risk and functionality. We will continue to monitor for innovation and technology and work with industry on developments that enable us to achieve this objective.

Table 8.3b: Assumed Asset Expected Lives

	Asset Class	Asset Type	Expected Life
		Road Surfaces	20-40 years
		Road pavements	80 years
	Transport	Footpaths/Cycle way	40-80 years
		Bridges (concrete)	80-100 years
		Pipes	80-235 years
	Stormwater	Culverts	115 years
		Pits	115 years
		Structure	45-90 years
	Buildings	Electrical, Hydraulic, Fire, Fit Out, etc.	20-30 years
		Shelters	18 years
		Playgrounds	10-20 years
	Recreation	Skateparks	50 years
		Sports courts	60 years
		Pool shells	50-80 years



8.4 Asset Condition

The condition of Council's assets is generally measured using a 1-5 grading system as detailed below in Table 8.4. It is important that a consistent approach is used in reporting asset performance to enable effective decision making.

Table 8.4 - Condition Grades

Condition Grade	Description
1	Excellent Condition: Only planned maintenance required
2	Very Good: Minor maintenance required & planned maintenance
3	Good: Significant maintenance required
4	Average: Significant renewal/upgrade required
5	Poor: Limited remaining useful life (0-10%)

Our preferred methodology for condition rating is based on physical observation and/or technical measurement using specialised equipment of the asset and rating against a defined template. Where this has not been undertaken, condition is derived from the remaining useful life or percentage of life consumed. Whilst this is an acceptable estimate, observed condition is a more reliable indicator of condition for assets.

We use observed condition for our road seal and pavement assets. Road condition inspections involve a comprehensive visual inspection and machine rating for several ride quality factors. This information is obtained at regular frequencies, preferably no more than four-yearly intervals. This enables us to calibrate our assessment of remaining useful life as we can monitor the change in condition over time. The information is used to predict the most appropriate time to undertake works prior to the road falling below and acceptable condition.

Our bridges have all been comprehensively inspected and condition rated. This was most recently completed in 2020/21. We undertake inspections of select bridges following major storm events where there are observations of significant overtopping of the deck or impacts from storm debris.

Our building portfolio has been subject of a complete inspection program incorporating all buildings in 2024. Each building has been rated on a scale of one-to-five and a forecast of remaining useful life. In addition, we have undertaken more detailed assessments for our more complex and higher valued buildings to inform plans.

Most of the stormwater assets are located underground and not readily accessible for visual observation. We have implemented a program of inspections on our pipe network that involves the use of remote operated vehicles with cameras to inspect the inside of the pipe. The images enable us to observe the condition based on the condition of joints, displacement between pipe sections, cracking, scour and intrusions into the pipe. Our program of inspections has been primarily led by locations with observed condition related issues, such as subsidence above a pipeline and indications of blockage. This provides information about a sample of the pipe network.

We have actions in place to undertake a comprehensive visual assessment of our pathway networks within the next 18 months. We have observed condition information on approximately one-third of the network.



The condition of open space assets is largely interpolated based on age and an assessment of remaining useful life. Routine inspections are undertaken on all playgrounds for maintenance defects. A program to inspect all light poles in open space is ongoing. A review of open space assets is scheduled within the next two-years.

A review of the condition of our pools will be undertaken in conjunction with a review of Our *The Future of our Pools Strategy 2014-2024*, which is scheduled to commence within the next two-years.

Along with risk and other asset specific information, condition is used to inform decision making and prioritise maintenance and the replacement of assets. The overall condition of our assets is shown below in Figure 8.4:

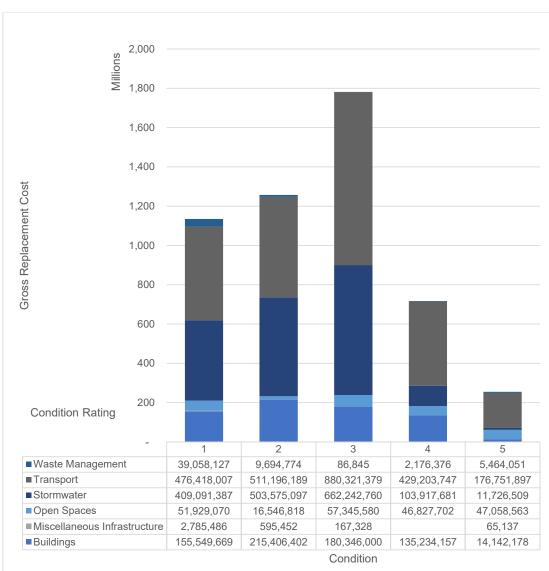


Figure 8.4 Condition of Assets – By Gross Replacement Cost



Many assets have a relatively long service life, and we expect to have profile that shows a range of conditions across the network. The consequence of failure and impact on service delivery for different asset types will drive our strategy for intervention and renewal. We plan interventions and renewals at an optimal time for assets that have a higher impact on service delivery, such as roads, stormwater, and buildings. This means that we generally plan to renew when these assets are in condition 4, and prior to declining to condition 5.

Where an asset group has a low consequence at failure, and/or the anticipated service down-time is low, we may adopt a run to fail management plan. This enables us to gain the maximum life economic value out of the investment and still provide an acceptable level of service to the customer.

We report on the condition of infrastructure assets as part of our annual financial statements. The report follows the Office of Local Government requirements and shows assets per condition score as a percentage of gross replacement cost. This provides an indication on the investment in renewals and our ability to maintain the network in an acceptable overall condition.

It is not realistic for all assets to be in kept in as new condition. However, we expect to see most assets in condition 1-3 with smaller percentages in condition 4 and 5. A trend of increasing percentage of condition 4 and 5 within an asset group suggests that an increase in renewal expenditure is required.

To monitor our performance, we will develop a desirable distribution of condition profile per asset class. We will then be able to measure the current percentage against the target. This distribution will form part of the technical levels of service and performance monitoring for each asset class. This work will be progressively implemented as our understanding of observed condition of assets develops.

Climate change and natural disasters can impact the condition of assets. One event can result in the rapid deterioration of and in some cases, failure of assets. In these instances, we typically consider options for improvements to improve the resilience of infrastructure networks to future events.



9 Levels of Service

Levels of service are a set of criteria that outlines social, environmental, economic and governance outcomes and targets that we aim to deliver in managing assets. Each asset plan includes a Performance section that outlines information relating to levels of Service. We typically group levels of service into Customer Levels of Service and Technical Levels of Service (LoS). Customer LoS relate to outcomes, objectives and measures of customer interactions with the asset. Technical LoS are more related to the direct actions, activities, and compliance requirements that can inform operational, maintenance and capital investment plans.

The LoS covered by this plan are directly related to asset management actions. LoS related to direct services are typically addressed in supporting documents and service plans. Supporting documents may identify increased or changes to LoS that impact on the current and future provision of assets. Until such time as asset related LoS in supporting documents are funded, they remain aspirational.

LoS are impacted by internal and external operating drivers. Internal operating drivers relate to factors that council has greater control or influence. These represent policy, strategy and operating frameworks that direct our response. External operating drivers are influences which impact the way we operate that are outside of our direct control. The main internal and external operating drivers that impact the level of service for assets are outlined below in Sections 9.1 and 9.2.

9.1 Internal operating drivers

There are several internal drivers that impact our asset planning and levels of service. Our internal policy, strategy and operating frameworks influence our response and drive the directions of our actions in asset planning. Some drivers present opportunities to achieve a vision, others identify vulnerabilities that need to be managed. Some drivers have greater influence on specific asset groupings, and other are overarching in our approach. The following section provides a summary of these internal operating drivers and the relationship to asset planning.

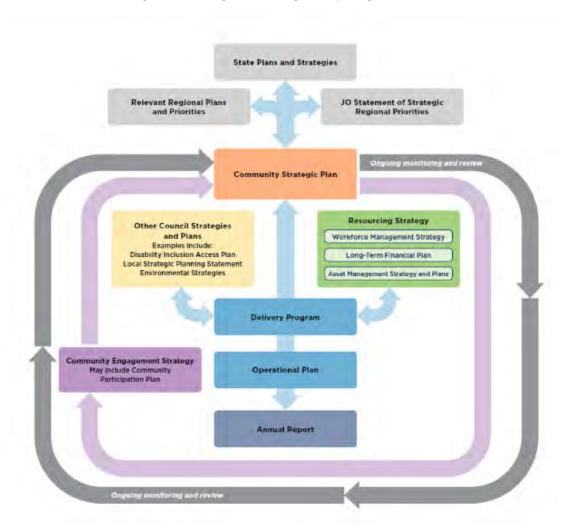
9.1.1 Integrated planning and reporting

The Integrated Planning and Reporting (IP&R) framework is a legislative requirement for Local Government in NSW. The IP&R Framework is provided at Figure 7.1.2 below, The Office of Local Government publish guidelines and essential requirements that we need to satisfy. It provides an opportunity for us to use the planning framework to identify the community's long-term vision, and our plan for how we achieve the aspirations through an integrated approach to planning. It provides a path for ensuring we align the many actions across the 33 services to achieve a common vision.

Asset planning is an essential part of the resourcing strategy to describe the assets that support our services to achieve the community's vision. We use the integrated planning and reporting framework to demonstrate how we approach our strategic planning and the supporting documents that inform and guide decision making. We demonstrate the strategic link to our CSP Goals and services in each asset plan.



Figure 9.1.1 – Integrated Planning and Reporting Framework



9.1.2 Community Satisfaction

Community is at the centre of our services, and it is important to understand how our assets can support these services. We conduct Community Satisfaction Surveys to monitor Council's performance in service delivery, identify priority areas and evaluate our customer services, organisational skills, and communication. The most recent survey was undertaken in 2023, and the information was compared to results from 2010; 2012; 2014; 2017; 2019; and 2021. The results of the survey are published on Council's website in the Wollongong City Council Community Satisfaction Survey – November 2023 Research Report.

The objectives of the community satisfaction Survey process are to:

- Measure the importance of, and satisfaction with, services and facilities provided by Council.
- Compare levels of satisfaction for Council's services and facilities with similar councils.
- Assist Council in identifying service priorities for the community.
- Evaluate Council's customer services and communication.

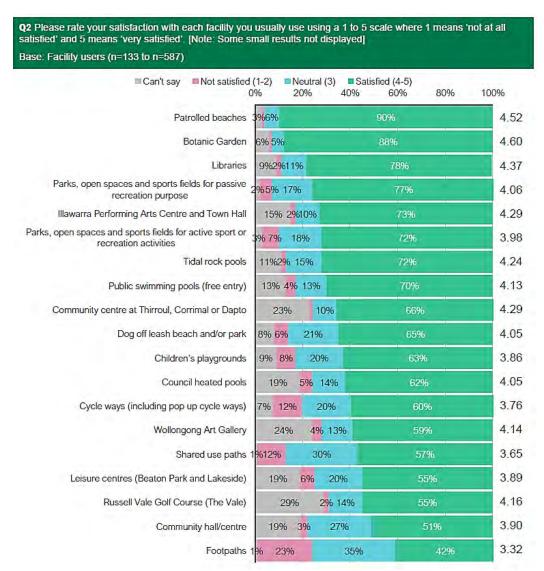




The survey covers 19 facilities and 31 services provided by Council identifying both importance and satisfaction on a 5-point scale. Our community survey provides information relating to quality, function, and utilisation of a range of facilities and services.

A summary from the Satisfaction Survey relating to facilities is provided below in Figure 9.1.2a.

Figure 9.1.2a – Community Satisfaction with Community Facilities

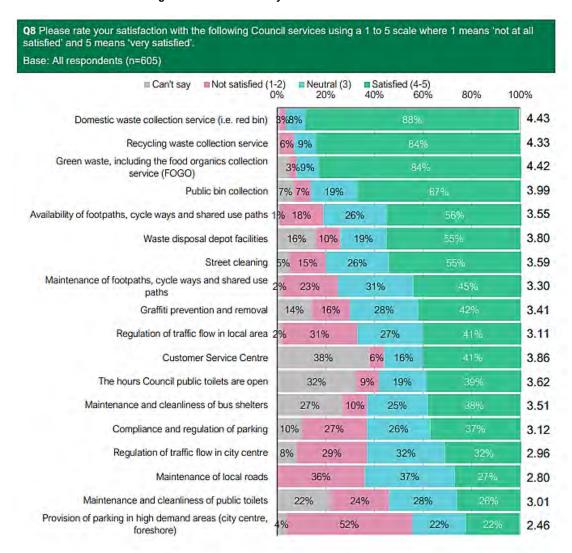


Closely related to community facilities is the results of the community feedback on direct services provided by Council. The results of the community satisfaction with these 18 services are provided below in Figure 9.1.2b. The results provide an indication of satisfaction with some of the operational services provided by assets, such as public bin collection; street cleaning; graffiti removal; hours of operation of public toilets; cleanliness of bus shelters and public toilets. The results also provide information on satisfaction with maintenance activities including maintenance of footpaths, cycleways, and shared paths; maintenance of bus shelters; maintenance of local roads; and maintenance of public toilets. The result also provides



indicators of community satisfaction with asset planning in the areas of the availability of footpaths, cycleways, and shared paths; and provision of parking.

Figure 9.1.2b - Community Satisfaction of Direct Services



The results at the 2023 survey indicates our effectiveness in maintaining satisfaction and responding to areas that the community feel we need to improve our focus. The trends over time using the results from seven community surveys are summarised below in Table 9.1.2c:



Table 9.1.2c - Facility and Direct Service Customer Satisfaction Trends

FACILITIES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Botanic Garden	4.4	4.6	4.5	4.4	4.6	4.7	4.6	V
Patrolled beaches	4.2	4.6	4.7	4.5	4.5	4.5	4.5	⇔
Libraries	1	1	1	1	1	4.4	4.4	⇔
Tidal rock pools	-	3.9	4.1	4.1	4.1	4.2	4.2	⇔
Thirroul, Corrimal or Dapto community centre	,	,	,	•	•	4.2	4.3	⇔
Illawarra Performing Arts Centre and Town Hall	4.1	4.2	4.3	4.4	4.4	4.2	4.3	⇔
Wollongong Art Gallery	3.9	4.0	4.2	4.2	4.1	4.2	4.1	⇔
Russell Vale Golf Course (The Vale)	3.9	4.1	4.4	4.1	4.2	4.2	4.2	⇔
Passive recreation at parks, open spaces, and sports fields	-	4.2	4.3	4.1	4.2	4.1	4.1	⇔
Public swimming pools (free entry)	3.8	4.2	4.5	4.1	4.2	4.1	4.1	⇔
Council heated pools	-	4.2	4.2	4.0	4.1	4.1	4.1	⇔
Leisure centres (Beaton Park and Lakeside)	4.0	4.2	4.3	3.9	4.2	4.1	3.9	•
Active sport or recreation activities at parks, open spaces, and sports fields	-	4.1	4.2	4.1	4.2	4.1	4.0	⇔
Playgrounds	-	4.1	4.1	3.9	3.9	3.9	3.9	⇔
Cycleways (including pop-up cycleways)	-	-	-	-	-	3.8	3.8	⇔
Community hall/centre	3.7	4.0	4.2	4.0	4.0	3.8	3.9	⇔
Shared use paths	-	-	-	-	-	3.8	3.7	⇔
Footpaths	-	-	-	-	-	3.5	3.3	Ψ
Green waste, including food organics collection service (FOGO)	-	-	-	-	-	4.5	4.4	⇔
Domestic waste collection (red bin)	4.1	4.2	4.2	4.0	4.1	4.4	4.4	⇔
Recycling waste collection service	-	-	-	-	-	4.3	4.3	⇔
Waste disposal depot facilities	3.4	3.4	3.4	3.6	3.7	4.0	3.8	⇔



FACILITIES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Public bin collection	-	-	-	-	-	3.9	4.0	⇔
Customer Service Centre	3.5	3.6	3.8	3.7	3.9	3.9	3.9	\$
Street cleaning	3.3	3.3	3.4	3.2	3.7	3.7	3.6	⇔
The hours Council public toilets are open	-	-	-	3.1	3.5	3.7	3.6	\$
Availability of footpaths, cycleways, and shared use paths	-	-	-	-	-	3.7	3.6	\$
Maintenance and cleanliness of bus shelters	3.0	3.2	3.3	3.0	3.5	3.6	3.6	\$
Graffiti prevention and removal	3.0	3.1	3.3	3.2	3.4	3.6	3.4	⇔
Maintenance of footpaths, cycleways and shared paths	-	-	-	-	-	3.4	3.3	
Regulation of traffic flow in local area	3.2	3.2	3.3	3.2	3.1	3.3	3.1	•
Compliance and regulation of parking	-	-	-	-	-	3.2	3.1	⇔
Regulation of traffic flow in city centre	3.0	3.2	3.1	3.1	3.2	3.2	3.0	•
Maintenance of local roads	2.8	2.8	3.1	2.7	3.1	3.2	2.8	•
Maintenance and cleanliness of public toilets	2.5	2.6	2.9	2.8	3.1	3.1	3.0	⇔
Provision of parking in high demand areas (city centre, foreshore)	-	-	-	-	-	2.5	2.5	⇔

The results of the survey are evaluated using a quadrant analysis. A quadrant analysis identifies facility and service strengths and priorities based on the relationship between individual facilities/ services and overall satisfaction.

- High importance and high satisfaction represent current service strengths are Strengths to Maintain.
 These have an important impact on creating overall satisfaction with Wollongong City Council and their performance is above average.
- High importance but low satisfaction denotes services where satisfaction can be improved and are identified as *Priorities for Council*. These are services/facilities which have an important impact on creating overall satisfaction but are performing below average.
- Lower importance and high satisfaction represent Opportunities to review the service provided.
 Improvement in the performance of these services/facilities will not have a large, significant impact on overall satisfaction with Council.



• Lower importance and relatively lower satisfaction represent lower priority service dimensions and are Second Order Issues. Improvement in the performance of these services/facilities will not have a large, significant impact on overall satisfaction with Council.

Results of the community survey are a consideration each of Council's asset management plans with the quadrant analysis shown in Table 9.1.2d. Information on overall satisfaction is used to assess performance against identified community levels of service.





Table 9.1.2d – Quadrant Analysis of Asset Related Council Facilities and Direct Services

Priorities for Council	Strengths to Maintain			
 Playgrounds Cycleways (including pop-up cycleways) Shared paths Footpaths Maintenance of footpaths, cycle, and shared paths Service for people with disability Management and preservation of our heritage Regulation of traffic flow in the local area Regulation of traffic flow in the city centre Maintenance of local roads Provision of parking in high demand areas 	 Libraries Parks, open spaces, and sport fields Dog off-leash beach and/or park Council heated pools Domestic waste collection service Recycling waste collection service Library services Availability of footpaths, cycleways, and shared use paths 			
Second Order Issues	Opportunities			
Community hall/centre Leisure centres Graffiti prevention and removal Maintenance and cleanliness of public toilets	 Botanic gardens Patrolled beaches Community centre at Thirroul, Corrimal, and Dapto IPAC and Town Hall Tidal rock pools Russell Vale golf course Wollongong art gallery Public swimming pools Green waste including FOGO Public bin collection Customer service centre Waste disposal at depot facilities Hours of public toilet operation Street cleaning Maintenance and cleanliness of bus shelters. 			

These results provide an indication of the services and facilities that have high importance and customer expectations are not being met. It also provides opportunities where we have high satisfaction and relatively low importance.

From an asset planning perspective, playgrounds, pathways, road maintenance, traffic and parking need to be reviewed. Similar grouping of assets appears in the Residents' wish list section of the survey – with the top four issues including roads and traffic; parking; parks, green spaces, sporting fields, playgrounds; and footpaths.



9.1.3 Financial Policies

Asset management is closely linked to the financial performance of the organisation. Reporting on asset management is part of our financial statements with requirements linked to the Australian Accounting Standards Board Standards which set the main requirements, objective, and application. Our internal asset accounting policy and related procedures detail how we apply the standards to the management of assets. The policy provides guidance on asset recognition and derecognition; asset class structure; valuation and depreciation; capitalisation and impairments. The policy provides guidance on capitalisation thresholds for each group of assets, and examples of activities considered as operating expenditure, maintenance and repair, capital renewal, capital upgrade, additions, and new assets.

There are other financial policies and procedures that impact investment strategies for asset planning. This includes how Council generates revenue and applies for grants, and the allocation of funds including restricted reserve funds.

Council recognises the financial risks involved in delivering a wide range of services, programs, and capital projects. Council has a cautious appetite for variation in financial performance if long-term financial sustainability is not threatened. This position requires asset planning that considers financial implications over a long-term.

We have included financial performance levels of service with the larger valued asset classes.

9.1.4 Risk Management Framework

Risk Management is an essential component of Council's governance framework that supports the achievement of Council's goals and objectives. Effective risk management increases the probability of successful outcomes whist protecting the reputation and sustainability of Council.

Our community is at the centre of everything we do. The community's priorities and aspirations for the future as well as their wellbeing form the basis of our Community Strategic Plan. The needs of our community are front of mind in the development of our risk appetite as we balance the achieving of the goals set by our community with the risks inherent in the environments in which we deliver those outcomes.

Council's risk management approach comprises the following key elements: Risk Management Framework; Risk Appetite; Risk Management Plan; and Risk Management Policies and Procedures. This framework is consistent with the accepted Australian Risk Management Standard (AS ISO 31000:2018 Risk Management).

Council's Risk Management Framework aims to effectively identify and manage risk across the organisation. The framework sets the requirements and responsibilities for staff and emphasises that the management of risk and risk reporting is everyone's responsibility to have appropriate controls in place and ensure the effectiveness of these controls.

Risk Appetite Statement for Strategic Asset Management is as follows:



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Context	Risk	Risk Tolera	nce Levels			
	Appetite Rating	Council will tolerate	Council will not tolerate			
Council is committed to continuous improvement to provide excellent infrastructure services that provide benefits to our community. Council is open to taking moderate levels of risk to enhance our city's assets and infrastructure.	Open - Willing to consider all potential options and chose the one most likely to result in successful delivery, whilst also providing an acceptable level of reward and value for money	 Moderate financial and reputational impacts arising from the implementation of new of innovative technologies. Moderate impacts leading to short term disruption to community due to implementation of construction procedures which provide value for money provided community has been informed. Moderate short-term financial impact on capital costs of projects where there are demonstrated long term sustainable gains. Moderate impacts to infrastructure due to implementation of new technology, innovation initiatives or projects. Unforeseen interruptions of up to 2 days to critical infrastructure from uncontrollable events where Council responds and communicates promptly to impacted stakeholders. Minor unforeseen and unavoidable cost variations in capital projects within the established contingency allocated to each project. Accepting increased levels of contract risk on certain projects if significant cost efficiencies can be achieved as a result. 	 Failure of third-party contractors to provide services within budget and agreed timeframes. Non-completion of a significant portion of new or renewal infrastructure projects beyond financial year (or scheduled completion period if project runs across multiple years). Significant delays to projects that are considered within Council control. Asset failure significantly earlier than the projected lifespan of the asset Failure to administer and manage contracts appropriately. Significant foreseeable variations in contract price due to aspects of the project within the control of Council. Failure to escalate critical infrastructure damage or issue within 2 hours. Failure to develop plans to respond to a disruption and ensure continuity of operational infrastructure. Activities that result in reasonably foreseeable and preventable fatalities, harm, serious injuries or illnesses to our Community, Customers, Councillors or Employees. 			

The identification of critical assets is required to implement our Strategic Asset Management risk appetite statement. Critical assets are discussed in Section 9.1.5 of this plan.

A review of the strategic asset management risks was undertaken in 2023. We reviewed Infrastructure Australia's *A National Study of Infrastructure Risk October 2021* to identify issues that are relevant to types of infrastructure and risks to our organisation. An assessment of risk, and the controls that we put in place to manage the risk was then undertaken. A summary of the assessment is provided in Table 7.1.4 below:

Asset Management Plan



Table 9.1.4 – Strategic Asset Management Risk Summary

	NATURE OF RISK	IDENTIFIED RISKS	CONTROLS	EVALUATED RISKS - RESIDUAL			
No.	People; Property &	What can go wrong?	Who / What / When / Where / How	Post controls			
	Financial; Environment; and/or Reputation	mat can go mong.		Severity	Likelihood	Level of Risk	
		Impact of climate change and natural hazards on assets, as well as	Local Consequence Management guides.		Possible	H12	
	Property & Financial		Floodplain Risk Management Studies and Plans				
1	(Economic)		Climate change mitigation plan	Major			
	Environment (Environment) Reputation (Governance)	requirements to later future design for these issues	Illawarra escarpment management plan	,			
		design for these issues	Climate change adaptation plan				
			Environmental sustainability plan				
		Economic and Market Capacity issues impact on resourcing and management of assets (Labour and contractor shortages, cost pressures, insurance pressures)	Attraction and retention policy		Possible	М9	
			Workforce management strategy				
	Property & Financial		Procurement Framework				
2	(Economic) Reputation (Governance)		Specialist procurement staff, cost estimators etc	Moderate			
	riopaidason (Governanco)		Economic Development Strategy				
			Incentives for local suppliers in procurement practices				
			Insurance Review to identify uninsurable risks				
		Delays or errors in project planning and approval process significantly impact on project delivery	QS reviews and benchmarking of costs				
	Property & Financial		Performance reporting from Capital program		Possible	M9	
3	(Economic) Reputation (Governance)		Updating cost escalation	Moderate			
	(55.5		Early review of DA/SEPP infrastructure provisions				
			Infrastructure Delivery Program				

Asset Management Plan |



	NATURE OF RISK	IDENTIFIED RISKS	KS CONTROLS		EVALUATED RISKS - RESIDUAL			
No.	People; Property &	What can go wrong?	Who / What / When / Where / How	Post controls				
	Financial; Environment; and/or Reputation	mat can go mong.		Severity	Likelihood	Level of Risk		
			Pre-lodgement review and for Development Approvals					
			Project Management cost reporting					
			Resourced specialised Project Delivery Division					
			Project Management cost reporting					
	Property & Financial (Economic) Environment (Environment) Reputation (Governance)	Poorly managed or inefficient construction or delivery of assets	Interaction and partnering with third parties early in projects (public utilities, lessees etc)		Unlikely			
4			Management and identification of ground issues that may impact projects (site analysis, geotech, aboriginal heritage, waste classification)	Minor		L4		
			Design and Contract Delivery in accordance with ISO9001 certified process					
			Identification of utility relocation requirements (expensed separately to capital)					
			Embed service level agreements					
			Community Strategic Plan process					
		Failure to provide fit for	Infrastructure Delivery Program					
5	Property & Financial (Economic)	purpose, functional and compliant assets (leading to	Asset Management Schedule	Minor	Unlikely	L4		
	Reputation (Governance)	impact on services to community)	Development Contribution Plans					
		, , , , , , , , , , , , , , , , , , ,	Resourcing strategic document (scope, design, deliver)					
			Fire Safety Certification Program					
			Project Life Cycle costing					

Asset Management Plan |





	NATURE OF RISK	IDENTIFIED RISKS CONTROLS		EVALUATED RISKS - RESIDUAL			
No.	People; Property &	What can go wrong?	Who / What / When / Where / How	Post controls			
	Financial; Environment; and/or Reputation	······································		Severity	Likelihood	Level of Risk	
			Asset Management Policy				
			Increase involvement of key stakeholders				
	Property & Financial	Asset management plans not aligned with master plans and strategic documents (complexity, inconsistency)	Implement hold points for planning needs (timing, affordability, lifecycle funding, etc.)		Possible	М9	
6	(Economic) Reputation (Governance)		Strategic Forward Planning of Asset acquisition, disposal, and construction	Moderate			
			Master plans and strategic documents to be costed and a funding strategy prepared				
		Failure to manage the risk of infrastructure and asset failure	Asset renewal programs				
			Programmed Infrastructure inspection and maintenance				
			Budgeting for asset maintenance				
			Al road surface scanning technology				
7	Property & Financial (Economic) Reputation (Governance)		Ensure adequate asset insurance is in place for the replacement of insurable assets in the event of loss or damage	Moderate	Unlikely	M6	
			Specialist staff with knowledge of high-risk assets (stormwater, flooding, bridges, geotechnical)				
			Robust schedule of proactive maintenance				
			Investigate alternate design/fabrication of infrastructure at high risk of damage by surrounding environment				

As a result of the assessment, Strategic Asset Management remains a moderate risk to the organisation. We have included levels of service for risk management with several asset classes.

Asset Management Plan |



Levels of Service

9.1.5 Critical Assets

The criticality of assets is a measure of the consequence or impact of a service interruption or loss. We use the following principles when reviewing criticality:



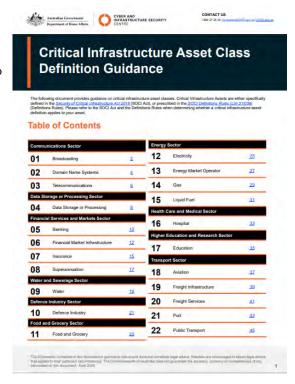
This people at the forefront of the approach – we apply our enterprise risk framework to review the risk of service interruption, look at each service individually, identify the assets associated with the service.

9.1.5.1Security of Infrastructure Act 2018

The Security of Infrastructure Act 2018 (SoCA) provides a framework for managing risks relating to eleven Australian economic sectors. The SoCA defines the critical infrastructure assets for each of the eleven sectors. The Australian Government's Department of Home Affairs produced the Critical Infrastructure Asset Class Definition Guidance through its Cyber and Infrastructure Security Centre, that is used to assist with identification of critical assets under the SoCA.

The Critical Infrastructure Asset Class Definition Guidance was applied to determine if Council has ownership or control of critical infrastructure as defined under the SoCA.

It was determined that Council is not in control of any critical assets in accordance with the SoCA.





9.1.5.2 Critical Services and Assets

Council has identified 33 services provided to the community to help achieve the objectives of the Community Strategic Plan (CSP). Each of these services are listed in the Delivery Program showing the linkage to a CSP Goal, with a description of

- Why we provide the service,
- · What we provide under as part of the service,
- How we deliver the service, and
- other supporting information about the service.

We analysed each of the 33 services and the associated delivery streams to determine service criticality. In determining the criticality of services, we assessed the consequence or impact of the service interruption or loss for a period of up to 2 days using the enterprise risk management framework.

For services that were identified as critical, we identify the assets required to support the delivery of the service. These assets are then defined as critical assets. A summary is provided in Table 9.1.5.2 below:

Table 9.1.5.2 - Critical Assets

Service	Delivery Stream	Criticality	Critical Assets	
Emergency Management	Plant and equipment. Buildings	Ability to respond to emergency events. Sufficient facilities to operate the required	Emergency management plant and equipment Emergency	
		service.	management facilities	
Natural Area Management	Asset Protection Zone (Bushfire)	Maintain adequate buffer from bushfire hazards.	Fire trails	
	Management		Asset protection zones	
Stormwater Services	Floodplain Management	Dam safety	Prescribed dams	
Waste Management	Domestic Waste Collection Service		Waste collection plant and equipment	
	Wollongong Waste & Resource Recovery Park	Public health	Waste facility assets	
Aquatic Services	Lifeguard Services	Ability to respond in a timely manner with the required resources	Rescue and recovery plant, fleet and equipment. First aid equipment	
Transport Services	Roads and Bridges	Provide connection for adjoining critical services. Provide access for critical transportation corridors	Old Princes Highway (as identified in the Local Emergency Management plan) Other roads to be identified as an improvement action	
Employee Services	Work Health and Safety	Statutory compliance and mandatory SafeWork notifications	Information Management and Technology resources	



Service	Delivery Stream	Criticality	Critical Assets
Governance and Administration	Council Meetings and Councillor Support	Council meeting	Information Management and Technology resources
Information Management and Technology	Cyber Security	Active cyber security measures	Information Management and Technology resources
Information Management and Technology	Technology Support Services	Maintaining access to critical systems	Information Management and Technology resources

9.1.5.3 Local Emergency Management Planning

The Illawarra Local Emergency Management plan identifies the following major transport routes in the Wollongong Local Government Area as shown in Table 9.1.5.3 below:

Table 9.1.5.3 - Major Road Transport Routes and Key Bridges

Road Name	TfNSW No.	Classification	Direction	Linking
M1 Princes Motorway	M1	Freeway (State)	North/South	Illawarra with Sydney and to the Victorian border
Princes Highway	HW1	State	North/South	Entire EM Area
Old Princes Highway	MR678	Regional (council)	North/South	Waterfall to Bulli Tops
Appin Road	MR177	State	East/West	Mt Ousley Road to Hume Highway
Picton Road	MR95	State	East/West	Mt Ousley Road to Hume Highway
Bulli Pass	HW1	State	East/West	Northern Suburbs of Wollongong LGA to F6
Mt Ousley Road	MR513	State	North/South	Central Suburbs of Wollongong LGA to M1
Lawrence Hargrave Drive	MR185	State*	North/South	Northern Suburbs of Wollongong LGA to Princes Highway
Memorial Drive	B65	State	North/South	Northern suburbs of Wollongong between North Wollongong and Bulli
Five Islands Road	MR295	State	North/South	Wollongong LGA to southern suburbs
Springhill Road	MR581	State	East/West	M1 to port of Port Kembla
Seacliff Bridge	-	State	North/South	Connecting Lawrence Hargrave Drive between Coalcliff and Clifton.
Windang Bridge	-	State	North/South	Linking Wollongong LGA with Shellharbour LGA



Levels of Service

*An agreement is in place for shared responsibility between Council and Transport for NSW (TfNSW) for parts of the carriageway. Under the arrangement, TfNSW has responsibility for the travelling lanes.

Council is a major stakeholder in the road network throughout the Wollongong Local Government Area. It is noted however that all roads and bridges listed in table 9.1.5.3 excepting Old Princes Highway, are under the care and control of the NSW Government and do not form part of this asset management plan. Old Princes Highway between Waterfall and Bulli Tops is classified as a Regional road under Council's control.

9.1.5.4Rail Network

The railway networks, including the main north-south commuter and freight line, Wollongong to Moss Vale, and service lines for mine and manufacturing industries are not under the care and control of Wollongong City Council. The assets associated with these networks are not included in this asset management plan.

There are network interface agreements with the operators of the rail networks with Council as the operator of the adjoining road networks. These agreements articulate the roles and responsibilities of the respective parties. These agreements are do not form part of this plan, other than any operational, maintenance, or capital costs associated with managing the interface locations as required.

9.1.5.5Heliports and Airports

The Wollongong Heliport is located at the corner of Port Kembla and, Springhill Roads. The Heliport is located on Council operational land and operated under a commercial agreement. The management arrangements for the maintenance and replacement of infrastructure associated with the facility is outlined as part of the lease. The road directly accessing the heliport is under the care and control of the State of NSW and does not form part of this asset management plan.

There is no airport located within the Wollongong Local Government Area.

9.1.5.6Ports and Harbours

The Port of Port Kembla is a major Port for NSW. It is not designated as Critical in the Security of Infrastructure Act 2018; however, it is recognised in the Illawarra Local Emergency Management Plan due to its role in transferring significant freight handling.

Wollongong Harbour is also recognised for its role in supporting fishing, tourism, and recreational boating.

Neither the Port of Port Kembla, nor Wollongong Harbour are under the care and control of Wollongong City Council. As a result, these locations and associated assets are not included in this asset management plan.

9.1.6 Infrastructure Resilience

Resilience of infrastructure refers to the ability of assets to withstand shocks and stresses and recover from incidents. A resilient network of assets requires resilience in the built asset, the service operation, and the within the community. The focus of resilience in the context of this asset management plan will focus on the resilience planned, designed, and built into assets. The resilience of the organisation to provide services and the community's role are covered in a separate resilience plan.

Improving the resilience of built assets requires the following key stages:

- Determining the exposure of the asset to natural and other shocks.
- Assess the consequence and impacts of service disruption to service customers.







 Develop actions to improve resilience of key assets that support services with high consequence of disruption.

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee (LEMC). The LEMC reviewed a total of 43 hazards and refined the list to 24 as part of the Local Emergency Risk Assessment 2023. The *rating priority* is undertaken based on a need for a multiagency (more than one combat agency) response to an event. These hazards are summarised below in Table 9.1.6:

Table 9.1.6 - Natural and Other Hazard Exposure and Risk Rating

Risk Rating	Hazard Name	Residual Risk Rating	Rating priority
1	Severe Storm	Major/Likely	Extreme
2	Fire – Bush/Grass	Major/Likely	Extreme
3	Heatwave	Major/Likely	Extreme
4	Flood – Lake and Flash	Major/Likely	Extreme
5	Pandemic and Communicable Disease Outbreaks	Major/Likely	Extreme
6	Infrastructure Failure – Power	Major/Possible	Extreme
7	Counter Terrorism	Major/Possible	Extreme
8	Biosecurity (Animals, Aquatic & Plants)	Catastrophic/Unlikely	Extreme
9	Landslip/Mudflow/Rockfall	Moderate/Likely	High
10	Fire – Non-Residential	Moderate/Likely	High
11	Fire – Residential	Moderate/Likely	High
12	Transport Accident – Rail	Moderate/Possible	High
13	Transport Accident – Road	Moderate/Possible	High
14	Infrastructure Failure – Telecommunications	Moderate/Possible	High
15	Major Structural Collapse	Major/Rare	High
16	Aeronautical	Major/Rare	High
17	Infrastructure Failure – Water	Major/Rare	High
18	Earthquake	Major/Rare	High
19	Tsunami – Land inundation threat	Major/Rare	High
20	Maritime Event and Environmental Impact	Major/Unlikely	High
21	Dam Failure	Moderate/Low	Moderate
22	Hazardous Materials	Moderate/Unlikely	Moderate
23	Mine Accident	Minor/Possible	Moderate
24	Coastal Erosion	Minor/Low	Rare*



Levels of Service

* We note that coastal erosion is occurring along locations of the foreshore throughout our Local Government area. The rating priority relates to coastal erosion events that are likely to require an emergency response from multiple combat agencies.

9.1.7 Climate Strategy

Climate change is highlighted as a key challenge for our future in the Community Strategic Plan. The *Sustainable Wollongong: A Climate Healthy City Strategy* outlines Council's commitment to environmental sustainability for both Council operations and our community and identifies pathways to create a sustainable, greener, healthier, cooler, and more liveable City.

We recognise the urgent need to respond to the impacts of Climate Change and have aligned with the principles of the Paris Climate Agreement through our partnerships with the Global Covenant of Mayors for Climate and Energy and the Cities Power Partnership. Council's Climate Change Mitigation Plan 2023-30 is a whole of community approach to reducing emissions in Wollongong. Council's Net Zero Wollongong Climate Change Mitigation Plan 2023-30 identified how Council as an organisation will lead by example through making commitments to emission reduction principles into core business and operations. Recognising the linkage with asset management planning is part of this commitment.

There are three operational areas with asset linkage to emission reductions measures:

- Waste management
- · Buildings and facilities
- Transport (fleet, plant and equipment)

The actions from the Net Zero Wollongong Climate Change Mitigation Plan 2023-30 (LE2, LE3, LE5 to LE9) will be included in future demand and investment projections in the relevant asset classes.

Through the Climate Change Adaptation Plan we recognise the key climate hazards associated with:

- Heat
- Flooding
- Bushfire
- Storms
- Drought
- Sea-level rise

The Climate Change Adaptation Plan assesses the risks at a local level, identifies strategies and actions to facilitate a pathway for adaptation. The actions relating to assets are shown below in Table 9.1.7

Table 9.1.7 – Asset Related Climate Change Priority Actions

Priority Actions									
Hazard	Action	Asset Management Relationship							
Heat	Further investigation of heat in the Wollongong area to understand this issue further and develop appropriate heat management strategies including city design, shade, construction materials and cooling infrastructure.	Urban Greening Strategy. Integrate strategies relating to public infrastructure.							







Priority Actions								
Hazard	Action	Asset Management Relationship						
	Assess the suitability of Council facilities to be utilised for respite centres on hot days. This may include provisions for adequate water and food, power supply and appropriate landscaping to provide shade.	Any identified upgrade requirements to be included in future investments in buildings and facilities. Identified facilities may require specific management plans. Improvements to passive heat control of the facility in addition to conditioned air will improve performance and reliability of the respite location.						
	Plan for the potential cost impacts of overlapping or more frequent heat events.	Include estimated increased operational costs to cool building and facilities. Improve thermal efficiency of high-priority and high-energy use locations.						
	In partnership with Land Management Agencies and other Botanic Gardens, develop translocation programs for threatened Illawarra flora susceptible to mean temperature increase.	Actions will be dependent on the outcomes of the investigation to determine whether there are asset related actions to support the program.						
	Continue managing flood risk through floodplain risk management plans, incorporating climate predictions.	Priority infrastructure actions from floodplain risk management plans are included in this plan.						
	Continue and monitor maintenance schedules to reduce the risk of drainage network blockages.	Levels of service relating to the criticality of the drainage network form part of this plan.						
Flooding	Ensure new developments consider climate change projections including rainfall intensity and sea level rise.	Appropriate planning and controls for private development have an indirect impact on the trunk stormwater network.						
	Undertake community education to increase awareness of the dangers of floodwaters and precautions to minimize risks to people and property.	Criticality assessment and risk management associated with stormwater infrastructure. Implement Creek Care program.						
	Review Council's response to manage air pollution for Council buildings and facilities.	Identified issues may require modifications to buildings and facilities.						
Bushfire	Review bushfire risk and emergency management plans for Council operational or leased buildings.	Potential for operational works for maintenance of asset protection zones around the building.						
	Proactively maintain fire trails and other bushfire related infrastructure to be fire ready e.g., hazard reduction.	Fire trails are listed as a type of road. Inspections and maintenance of Council fire trails are scheduled.						
Storms	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure						

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Priority Ac	Priority Actions								
Hazard	Action	Asset Management Relationship							
	Identify the Council's business continuity plans (BCPs) and review and update as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any critical assets are listed in the asset management plan, and appropriate management plans developed.							
Drought	Council will review the water efficiency of its operations including detecting leaks in water supply (for Council managed section of water network).	The review may identify the need for capital work. The outcomes of the work should decrease operational costs associated with water usage; however the option will need to be assessed for any other associated changes in costs (e.g., Maintenance of water harvesting systems such as filters, pumps, flush systems, etc.)							
	Council to consider rainwater, sewerage mining/ recycling and stormwater harvesting and usage, to support irrigation for sports fields.	The out come of review may result in implementation of capital works and adjustment to maintenance and operational costs.							
	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure							
Sea-level rise	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events. An allowance will be included in estimates based on a review of prior years' activities.							
	Identify the Council's business continuity plans (BCPs) and review and update as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any critical assets are listed in the asset management plan, and appropriate management plans developed.							

Note only actions with a direct impact on assets have been included above from the Climate Change Adaptation Plan.

Flora is not recognised as a non-current asset and is not part of this asset management plan. Actions may be included in an operational plan outside the scope of this asset management plan.

Information Management and Technology Strategy 9.1.8

Our Resourcing Strategy includes our Information Management and Technology Strategy. This strategy recognises the criticality of effective information and communication technology that supports and enables business functions across the organisation.

Information Systems are critical to supporting the four pillars of asset management (people, data, processes and systems), and as a result, Council has invested in this area over the last several years. We are continuing to implement an enterprise asset management system and improve our process to support the way we manage assets. We have moved to cloud-based platforms, increased our ability in IM&T mobility,





Levels of Service

trialled and implemented Artificial Intelligence for defect identification, trialled smart city technology, and continuing to develop data analytics. This work improves the efficiency of our operations which in turn, improves the level of service we can provide to the community.

Long-term asset management planning requires data to inform decision making throughout the life cycle of assets. This data is used to model whole of life costs for existing and proposed assets, to forecast intervention points for renewals, prepare programs of work based on differing funding models, manage risk over large asset portfolios, and to prioritise works. We use that enterprise asset management system to host and assist with analysing data. Together with people and processes, we use the data and system to ensure we have good governance to support effective decision making.

9.1.9 Workforce Strategy

Our Resourcing Strategy includes our Workforce Strategy. People are critical to delivering on multiple actions across the lifecycle of assets. The Workforce strategy articulates our strategy and plan for resourcing the people required to deliver on the actions in the Delivery Program and achieving the vision of the Community Strategic Plan.

9.1.10 Procurement and Supply Strategy

The management of our asset portfolio is supported by multiple contracts for goods and services. We have a Sustainable Procurement Policy that provides guidance to the Council and employees to allow consistency and control over Procurement activities and demonstrate accountability to the community in relation to procurement activities. The policy establishes principles relating to responsible financial management and value for money; ethical principles; risk management; sustainability; social procurement; improving local economic capacity; and thresholds and methodology. This policy framework mandates how we procure as an organisation.

At times, the economics of supply and demand can create challenges to obtaining competitive pricing for asset related goods and services. We undertake reviews to assess the outcomes of all procurement practice and assess the risk of proceeding to ensure we are meeting the asset management principles and procurement principles.

9.2 External operating drivers

External operating drivers influence the way we operate that are outside of our direct control. They may include changes in the operating environment, such as economic, legislative, environment, social and technological impacts. A summary of the drivers that are anticipated to or continue to influence the way in which we deliver services and the assets that support them are summarised below.

9.2.1 Reconciliation

We acknowledge and respect the ancient, ongoing connection Aboriginal and Torres Strait Islander people of Dharawal Country have to these lands and waters. Our aim is to strengthen and build relationships that are meaningful and long lasting and show our respect for the important contributions Aboriginal and Torres Strait Islander peoples and their communities make to our city.

Council has embedded our Reconciliation Action Plan (RAP) into the way we do business. As part of our commitments, we respect and continue to increase our understanding of Aboriginal and Torres Strait Islander people's special places and sites of significance. This commitment is particularly important in asset



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planning. We facilitate an Aboriginal reference group and provide updates on Council projects and engage on matters of importance to local Aboriginal and Torres Strait Islander communities.

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We continue to review the processes associated with implementing the asset management plan to align with the commitments in the RAP.

9.2.2 Climate change

Climate change was formally recognised globally at the 1992 United Nations Conference on Environment and Development in Rio de Janeiro. In 2015, a global commitment by countries was agreed at the 21st Conference of the Parties in Paris. The Paris Agreement includes a global commitment to limit global temperature rise to below 2°C above pre-industrial levels and pursue efforts to limit the rise to 1.5 degrees and a commitment to achieve net-zero emissions, globally, by the second half of the century. The Sustainable Development Goals is a global strategy agreed by the United Nations General Assembly and contains 17 goals for 2015-2030 including the following goals directly relevant to climate change mitigation and adaptation (United Nations, 2020), refer to Figure 9.2.1 below.

Figure 9.2.1: Sustainable Development Goals directly relevant



In 2019, Council resolved that we are in a state of climate emergency that requires urgent action by all levels of government. Council has set a target of net zero emissions by 2050 for the City of Wollongong. Council also recognised the significance of its own contribution to the City's emissions and the need to demonstrate leadership and so set a target of net zero emissions by 2030 for its own operations. Council has developed a Climate Change Mitigation Plan which describes actions on our journey towards net zero emissions. Several actions from the plan influence our planning for assets.

9.2.3 Legislative obligations

Council operates in a heavily regulated environment. At the forefront is the Local Government Act 1993, that provides the legal framework for the systems of local government, the responsibility and authority, community engagement roles; and accountability for sustainability and effectiveness.





A range of other legislation that influence our planning for assets is provided at each asset plan. The legislative obligations may include a specified role of local government under various Acts and Regulations or create compliance requirements. In some instances, Council may have dual roles under legislation as an authority/regulator and as a customer to which the legislation applies.

As part of our governance arrangements, we monitor changes in legislation and keep a register of legislative framework relevant to our services.

9.2.4 Economy

The second goal of Our Wollongong our Future 2032 is *We have an innovative and sustainable economy*. We recognise the importance of our role as an organisation in supporting, fostering, and growing local economic development. This is articulated through our Economic Development Strategy.

We have seen the impacts of the Global and National economy on asset planning over the last few years during and post the COVID-19 pandemic. Whilst several markets are returning to pre-pandemic levels, other sectors have likely changed for good. We have experienced significant price increases to deliver assets, and difficulty obtaining materials and goods.

We maintain an active presence as part of local and regional economic development. Our Economic Development Strategy identified several critical transport projects/initiatives for the future economic success of the region. These include:

- Wollongong to Greater Sydney connections Parramatta and Western Sydney airport.
- South West Illawarra Rail Line (SWIRL).
- South Coast rail line upgrades duplication of the South Coast rail line.
- Mount Ousley interchange and widening.
- Picton Road upgrade.
- F6 Extension.

These initiatives fall within the responsibility of the NSW Government to consider, and as a result there are no specific actions relating to these infrastructure projects in this asset plan.

9.2.5 Population growth

For many years, the increase in population of Wollongong was ahead of the growth in Regional NSW. The trend began to change in 2017 and was below the Regional NSW until 2022. However there has been a turnaround, with 2023 showing strong growth as shown in Figure 9.2.5.

The long-term forecasts show significant population growth in Wollongong. This is impacted by several external factors, including affordability of housing, access to employment, access to services, transport, and social networks. Population growth continues to influence our planning for assets and is informed by our Local Strategic Planning Statement and development contributions plans.

2035

Figure 9.2.5 - Change in Resident Population



9.2.6 Demographic change

Wollongong embraces the diversity of our community with population continuing to grow and change. It is predicted, based on current trends and population projections that, by 2036 there will be:

- more people aged 70 years and above.
- an increase in the number of couples without children.
- a small increase in the proportion of people living alone.
- a continued slowing of the birth rate.
- · a decline in the number of group households.

The demographic changes will influence the service needs and related assets that council provides.

9.2.7 Waste and recycling

We operate the Wollongong Waste and Resource Recovery Park (Whytes Gully) at Kembla Grange. The site includes a Community Recycling Centre (house recyclables, problem waste); small vehicle transfer station; mixed waste and garden organics; and a landfill.

In 2010, the United Nations Executive Director, Anna Tibaijuka stated:

"Regardless of the context, managing solid waste is one of biggest challenges of the urban areas of all sizes, from mega-cities to the small towns and large villages, which are home to most humankind. It is almost always in the top five of the most challenging problems for city managers."





Council adopted the Wollongong Waste and Resource Recovery Strategy 2034 in August 2024 with relevant actions.

The main influence is the volume and type of waste and recycling generated by the community. The landfill site is a major generator of emissions and has a significant impact on our ability to achieve net zero targets.

Waste and recycling have an impact our asset planning for the Whytes Gully facility, and the generation of waste as part of our management of assets.

9.2.8 Technology

Changes and advancement in technology can reshape the way in which we deliver services, manage assets, gather information, and interact with the community. Our Information Technology roadmap is part of the internal drivers that sets our plan over the next four years. Complementing and informing the roadmap are the opportunities created in the external market as technology develops. We continue to review the potential application of technology to create efficiency, improve customer service, manage cyber risk and security of information, provide access to new areas of service, and enhance employee experience. We have developed partnerships with Shellharbour, Kiama, and Shoalhaven Councils; University of Wollongong and Lendlease to explore smart technology to improve water management through building and testing data analytics.

Advancements may change the way we use technology. We are using drones to capture images for publications; however, drones have a much broader application to be considered. They can provide improvements in the way that we monitor foreshore areas, complete inspections of difficult to reach and hazardous locations (bridge soffit, roof tops, dense bush areas, open drains, and large culverts etc), complete topographic survey, completed thermal imaging for leakage detection, and many other applications.

We are already leveraging artificial intelligence to monitor the condition of our road and footpath network and identify surface defects. We have mounted cameras in garbage trucks to capture images of the road surface as they drive the network. The images are reviewed with applications that utilise machine learning algorithms (like facial recognition) to identify defects in the road and automatically issue instructions for repairs with priority based on road classification, size, and severity. We are looking to apply the technology to other asset types.



Asset Infrastructure Performance Indicators

10 Asset Infrastructure Performance Indicators

Assets are intended to provide service over their useful service life and in most cases, we aim to maximise the useful service life balancing service outcomes, risk management and cost.

Measuring the financial performance of infrastructure assets is crucial for effective management, maintenance, and long-term decision-making. The importance of capturing and tracking infrastructure assets performance can be seen from several perspectives:

- Accurate measurement of infrastructure assets enables correct valuation, which is essential for financial reporting, budgeting, and decision-making
- 2. Measuring whole of life costs assists in evaluating investment effectiveness and sustainability
- 3. Assists in prioritising proactive maintenance activities, ensuring optimal asset performance
- 4. Accurate measurement of infrastructure assets enables effective utilisation, reducing waste and optimising resources
- Informs capital planning, ensuring alignment with organisational goals and objectives
- 6. Enables evaluation of sustainability performance, supporting environmental and social responsibility initiatives.

Council use several indicators in relation to infrastructure asset management and includes asset classes identified in the report on infrastructure assets only. Performance against identified indicators will be assessed at least annually.

The indicators are described in more detail below:

10.1 Indicator 1 – Long-term Asset Renewal Funding Ratio

Funds Available for Renewals

Annualised Asset Renewal Cost

Target: 1:1 or 100%

This measure provides information about the longer-term average cost requirement for renewals that removes cyclical peaks and troughs. It is important that future costs are considered early to avoid renewal cost shocks in future periods.

10.2 Indicator 2 – Asset Management Replacement Funding Ratio

Assets Due for Replacement

Funds Available for Replacement

Target: 1:1 or 100%

This measure informs us of an increase in carried forward backlog. It assesses whether the capital program is managing asset replacement in a timely manner. Assets not renewed in the current period will form part of the following year's backlog.



Asset Infrastructure Performance Indicators

10.3 Indicator 3 – New & Enhanced Asset Lifecycle Ratio

Annualised Asset Lifecycle Cost of New & Enhanced Assets

Annualised Asset Lifecycle Budget for New & Enhanced Assets

Target: 1:1 or 100%

This measure informs operational performance of assets capitalised in the current year against allocated asset operational growth funding for the same period.

10.4 Indicator 4 – Scheduled Maintenance Performance Ratio

Scheduled Maintenance

Budgeted Maintenance

Target: greater than 80%

This ratio measures performance of scheduled maintenance. Managing scheduled maintenance at 80% of total maintenance spend can reduce upfront costs by avoiding investments in preventive programs.

10.5 Indicator 5 – Maintenance Backlog Ratio

Value of Scheduled Maintenance not Completed

Budgeted Maintenance – Scheduled Maintenance

Target: <1

This measure tracks any maintenance backlogs over time and is assessed at asset class level.

10.6 Indicator 6 – Renewal backlog Ratio

Required Renewals

Written Down Value

Target: <2%

This measure tracks any renewal backlogs over time and is assessed at asset class level. That is the value of the required renewals that fell due in prior years that have not been completed.





Asset Infrastructure Performance Indicators

10.7 Estimated Required Maintenance

This ratio compares actual versus required annual asset maintenance. The methodology for determining the required maintenance has been variable in prior years. To improve the reliability of this indicator, we need to work on establishing proactive maintenance programs and service levels across the range of asset classes. This will enable a more accurate estimate of the required maintenance for assets. For this plan, we have used an estimate of required maintenance based on the percentage of the gross replacement cost. We have benchmarked against similar councils to ensure our estimated required annual maintenance is reasonable. The forecast estimates using the benchmarked rates are provided in Table 10.7 below:

Table 10.7 - Estimated Required Maintenance

Asset type	Required	Maintenance	Actual Maintenanc	Total required maintenance	Total maintenance	
	% of GRC	\$	e 2022-23	over useful life	as a % of GRC	
Buildings		19,219,320	12,236,000	ı		
Building Structure	2%			576,643,884	125%	
IPS Building Components	2%			216,097,352	91%	
Open Spaces		17,551,913	19,175,000	-		
Open Space Areas	8.00%			3,408,812	136%	
Open Space Areas Land Formation	8.00%			3,448,383	120%	
Open Space Infrastructure		-		-		
Beach Access	8.00%			2,683,265	280%	
Lighting	8.00%			10,649,729	174%	
Memorials	8.00%			900,119	400%	
Minor Infrastructure (signs, gates, fences etc)	8.00%			38,687,556	173%	
Outdoor Exercise	8.00%			696,699	89%	
Outdoor Furniture	0.10%			259,651	2%	
Playground	8.00%	1,543,923		30,613,567	143%	
Pool Specific	5.33%	1,907,908		168,869,818	221%	
Shelters	0.65%		136,000	2,863,035	23%	
Skate Park	8.00%			9,724,700	279%	
Sports Areas and Equipment	8.00%			94,722,144	364%	
Utilities	8.00%			87,537,144	272%	
Stormwater	0.42%	7,207,309	3,330,000	665,635,082	39%	
Transport		-		-		
Bridges	0.50%	845,695	1,413,000	55,607,060	37%	
Car Parks	0.50%			15,990,199	33%	



Asset Infrastructure Performance Indicators

Asset type	Required	Maintenance	Actual Maintenanc	Total required maintenance	Total maintenance as a % of GRC	
	% of GRC	\$	e 2022-23	over useful life		
Pathways	0.78%	3,300,180	5,472,000	242,712,876	62%	
Retaining Walls	0.60%			24,195,486	38%	
Roads			18,285,000	•		
Street furniture, bus shelters	0.65%	251,229	136,000	790,075	14%	
Guardrails	0.60%			4,868,046	31%	
Road Segment & Car Parks		8,043,879		•		
Kerb and Gutter	0.44%			158,368,314	35%	
Road Base	0.88%			263,889,201	67%	
Road Earthworks	0.00%			ı	0%	
Road Seal	0.88%			79,788,789	37%	
Road Subbase	0.00%			-		
Street Furniture	0.10%			561,176	3%	
Transport facilities	0.60%	765,667		43,605,055	44%	
Grand Total		60,637,023	60,183,000	2,803,817,217		

The data shows that we have the capacity to invest and complete the required infrastructure maintenance as the actual expenditure in 2023-24 was almost equal to the estimate. There are some variations in specific asset groups between the estimated required maintenance and the actual expenditure. It is not recommended to alter budget allocations to reflect the estimated required maintenance at this point but rather focus on the improvement action of developing and preparing cost estimates for proactive activities and adjust the percentage based with more accurate estimates.



11 Our Asset Investment Plan

The following pages outline the proposed financial investments for assets over the 10-year period from 2025/26 to 2034/35. The summary shows the plan for investment into the renewal, upgrade, expansion of assets; for the provision of new assets; and for works to deliver the West Dapto Development Contributions plan. The information is grouped and summarised from each of the asset plans in Section 12.

It is important that Council maintains a focus on renewal of assets to ensure the long-term sustainability of the asset provision. The capital expense type table demonstrates that much of the investment into assets is for renewal and upgrade of assets.

Asset proposals that look to increase service levels (that is upgrades, expansion and new assets), typically need to be supported with a business proposal. The business proposal will review the whole of life costs to ensure that the cost to operate and maintain the asset over the service life is recognised and accounted for in decision making. New assets that form part of the developer contributions plans have already been through an analysis of cost in preparation of the plans and won't require business proposals. Minor upgrades that are initiated due to legislative or accessibility compliance will not require business proposals, however a significant investment (i.e. 50% or more of the asset value), needs to be further considered.

Our Improvement Plan actions in this Asset Management Plan will improve the accuracy of our forecasts and enable us to better understand the levels of investment required.

We also need to ensure that we plan to provide the infrastructure required to support services for the growing population. The information relating to the provision of new asset has been broken down to new assets, and West Dapto Development Contribution Plan. As the community grows in West Dapto, this plan provides the necessary infrastructure for the community to thrive. Over the 10-year timeframe, there is a plan to invest just over \$280M into infrastructure for West Dapto, in addition to investments planned by the NSW Government on any State Roads. Based on current forecasts for development, it is anticipated that the following 10-year period between 2036 and 2045 will see a significant increase in demand for infrastructure delivery in West Dapto. This is likely to create challenges in delivery of the scale of works required without planning the required resources in advance. A recommended action has been included in the Improvement plan to review this issue as part of the next Workforce Plan.

Note that all investment amounts in this section and throughout the plan are as at 30 June 2024 dollars (unless otherwise stated) and not indexed. Values will need to be adjusted for inflation in future years and escalation applied at the same rate as the long-term financial plan.



11.1 Capital Investment

The following table summarises the annual capital investment per asset plan and grouped by non-infrastructure and infrastructure assets.

Capital Investme	Capital Investment										
Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Non-infrastructure assets											
Plant and Equipment	7,995,000	4,617,920	4,795,414	4,226,500	7,144,433	5,871,000	5,945,900	5,722,602	6,101,144	6,201,678	6,305,228
Library collection and resources	1,373,749	1,403,749	1,437,663	1,467,854	1,503,100	1,467,135	1,501,672	1,537,038	1,573,252	1,610,335	1,647,419
Information management and technology	1,340,000	1,400,000	900,000	1,050,000	933,000	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954
Artworks, Antiquities and Memorials	103,500	106,600	109,800	113,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Land	250,000	250,000	ı	ı	ı	120,000	120,000	120,000	120,000	120,000	120,000
Subtotal	11,062,249	7,778,269	7,242,877	6,857,354	9,680,533	8,866,089	8,975,526	8,787,594	9,202,350	9,339,967	9,480,601
Infrastructure											
Roads	26,047,000	54,295,000	48,654,144	32,706,900	35,784,375	61,836,000	64,295,000	70,240,000	59,775,000	62,922,000	53,589,000
Bridges	895,000	3,085,000	3,895,000	3,410,000	1,625,000	2,825,000	980,000	527,000	502,000	580,000	5,625,000
Transport facilities	3,248,000	1,784,435	2,715,000	1,046,494	300,000	1,500,000	1,550,000	1,565,000	1,600,000	1,525,000	1,600,000
Street furniture, bus shelters, and guardrail	93,000	535,000	435,000	625,000	625,000	475,000	425,000	1,150,000	375,000	1,150,000	325,000
Pathways	9,505,000	7,369,900	12,530,000	10,120,000	6,450,000	9,850,000	9,850,000	9,850,000	9,850,000	9,850,000	9,850,000
Stormwater and floodplain management	9,942,000	7,665,000	4,185,000	6,400,000	7,200,000	5,575,000	5,575,000	5,575,000	5,575,000	5,575,000	5,575,000

Asset Management Plan





Capital Investme	nt										
Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Playgrounds	1,057,000	995,000	1,000,000	1,000,000	1,000,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Open spaces	8,735,000	3,565,000	9,695,600	1,981,668	1,520,000	1,957,000	1,439,000	1,486,000	1,534,000	1,595,000	2,908,000
Pool structures	1,350,000	6,000,000	3,250,000	500,000	6,010,000	2,892,500	2,907,600	2,923,022	2,938,815	2,959,029	2,979,850
Buildings	15,430,000	45,175,000	38,250,000	40,420,000	14,920,000	15,837,800	15,758,900	15,667,569	15,692,830	15,692,830	15,692,830
Waste	12,975,000	4,010,000	7,490,000	11,685,000	23,970,000	15,900,663	9,602,737	9,541,556	459,525	176,292	20,188,614
Subtotal	89,277,000	134,479,335	132,099,744	109,895,062	99,404,375	120,148,963	113,883,237	120,025,147	99,802,170	103,525,151	119,833,294
Non-project allocations	5,655,863	3,088,724	3,903,044	10,565,295	13,941,223	13,773,000	19,455,000	23,737,000	25,506,000	29,269,000	30,166,000
Total	105,995,112	145,346,328	143,245,665	127,317,711	123,026,131	142,788,052	142,313,763	152,549,741	134,510,520	142,134,118	159,479,895



11.2 Capital Expense Type

The following table provide a consolidated summary of the total investment per year into renewal, upgrade, expansion, and new works on assets. It is a total combined view of both non-infrastructure and infrastructure assets.

Capital Expense Type	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Renewal works	51,535,787	57,680,707	47,391,372	43,534,076	57,444,908	54,228,389	52,086,026	52,179,185	51,944,995	52,961,826	59,061,281
Upgrade works	13,074,962	15,031,897	28,391,249	24,476,846	15,200,000	18,875,663	12,177,737	12,116,556	2,934,525	2,651,292	22,663,614
Expansion works	9,879,500	52,812,000	48,050,000	30,630,000	550,000	36,259,800	38,227,000	42,983,000	34,611,000	37,128,600	29,612,200
New acquisition works	25,849,000	16,733,000	15,510,000	18,111,494	35,890,000	19,251,200	19,968,000	21,134,000	19,114,000	19,723,400	17,576,800
Voluntary Purchase Scheme	-	-	-	-	-	400,000	400,000	400,000	400,000	400,000	400,000
Non- Project Allocation	5,655,863	3,088,724	3,903,044	10,565,295	13,941,223	13,773,000	19,455,000	23,737,000	25,506,000	29,269,000	30,166,000
Totals	105,995,112	145,346,328	143,245,665	127,317,711	123,026,131	142,788,052	142,313,763	152,549,741	134,510,520	142,134,118	159,479,895



11.3 Renewal Works

We plan to spend an average of \$52M per year on renewal and refurbishment of existing assets. Roads, being the largest valued asset class, has a significant annual renewal investment. Each asset plan provides greater details on renewals. Opportunities will be investigated to decrease the investment in some asset groups where alternate treatments will extend the useful life of the asset and/or more efficient and cost-effective maintenance and renewal treatments are identified.

Renewal Works Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Plant, fleet & equipment	6,795,750	4,617,920	4,795,414	4,226,500	7,144,433	5,871,000	5,945,900	5,722,602	6,101,144	6,201,678	6,305,228
Library collection and resources	1,167,687	1,193,187	1,222,014	1,247,676	1,503,100	1,467,135	1,501,672	1,537,038	1,573,252	1,610,335	1,647,419
Information management and technology	1,107,850	1,258,000	800,000	950,000	883,000	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954
Artworks, antiquities and memorials	103,500	106,600	109,800	113,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Subtotal	9,174,787	7,175,707	6,927,228	6,537,176	9,630,533	8,746,089	8,855,526	8,667,594	9,082,350	9,219,967	9,360,601
Infrastructure											
Roads	20,127,000	23,275,000	18,619,144	15,311,900	14,204,375	17,230,000	17,230,000	17,230,000	17,230,000	17,230,000	17,230,000
Bridges	895,000	3,005,000	2,515,000	1,400,000	600,000	2,800,000	730,000	300,000	202,000	300,000	5,625,000
Transport facilities	40,000	-	-	-	-	675,000	725,000	740,000	775,000	700,000	775,000
Street furniture, bus shelters, and guardrail	40,000	245,000	30,000	250,000	250,000	50,000	-	725,000	50,000	825,000	50,000
Pathways	3,395,000	2,865,000	4,385,000	4,470,000	4,300,000	4,300,000	4,300,000	4,300,000	4,300,000	4,300,000	4,300,000
Stormwater	5,342,000	5,455,000	3,245,000	3,000,000	3,020,000	1,040,000	1,040,000	1,040,000	1,040,000	1,040,000	1,040,000
Playgrounds	1,057,000	995,000	1,000,000	1,000,000	1,000,000	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000
Open spaces	580,000	970,000	970,000	990,000	960,000	1,357,000	1,239,000	1,286,000	1,334,000	1,395,000	2,708,000
Pool structures	1,000,000	6,000,000	3,250,000	500,000	6,010,000	2,892,500	2,907,600	2,923,022	2,938,815	2,959,029	2,979,850
Buildings	9,560,000	7,435,000	5,950,000	9,500,000	11,620,000	13,837,800	13,758,900	13,667,569	13,692,830	13,692,830	13,692,830
Waste	325,000	260,000	500,000	575,000	5,850,000	-	-	-	-	-	-
Subtotal	42,361,000	50,505,000	40,464,144	36,996,900	47,814,375	45,482,300	43,230,500	43,511,591	42,862,645	43,741,859	49,700,680
Totals	51,535,787	57,680,707	47,391,372	43,534,076	57,444,908	54,228,389	52,086,026	52,179,185	51,944,995	52,961,826	59,061,281

Asset Management Plan





11.4 Estimated Required Renewals as a Percentage of Planned Renewals

Depreciation was previously used by Council as an indicator for annual investment in the renewal of assets, but an improved method is proposed in this Plan to monitor if the renewals required are funded and completed as they fall due. Many long-life assets have many years until reaching their useful life and do not yet require expenditure on renewal. For each of the infrastructure asset classes we have estimated the required renewals per year based on the forecast useful life of the asset. With many infrastructure assets having a long life (over 30 years), and the construction patterns following historic growth across our Local Government Area, the estimated annual renewal requirements fluctuate significantly from year to year. The annual estimated renewal requirement will increase as long-life assets near the end of the useful life.

We anticipate some renewals resulting from early degradation of assets due to external factors. This occurs when the asset is not able to reach the expected service life due to damage from actions such as storms, vehicle impact, overloading and other external factors. The requirement for this type of investment is specific to the asset class and based on observations over time. For non-infrastructure assets we estimate the required renewal equivalent to the annual depreciation as these assets typically depreciate at a similar rate to the consumption of service life.

As an indicator of sustainable asset management, we look at whether we can resource the estimated renewal requirements as and when they fall due. To measure this, we look at the planned investment into renewal and upgrade works as a percentage of the total estimated required renewal investment. The target is >100%. The total estimated required renewal investment is equal to the gross replacement value of the assets forecast to reach 100% of the useful life in the year, plus an estimate of early degradation, and the annual depreciation value for non-infrastructure assets.

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Estimated Renewal Requirement	53,382,597	53,164,214	55,979,731	55,319,080	48,067,232	55,230,329	46,523,188	48,793,205	53,282,839	43,229,781	61,254,743
Planned Renewal and upgrade	64,610,749	72,712,604	75,782,621	68,010,922	72,644,908	73,104,052	64,263,763	64,295,741	54,879,520	55,613,118	81,724,895
Percentage	121%	137%	135%	123%	151%	132%	138%	132%	103%	129%	133%

The average investment is 130% of the forecast required renewals which includes contingency for scope and unexpected asset failures.

We will move towards reporting on the proposed indicators 1 and 2 as outlined in Sections 10.1 and 10.2 respectively.





11.5 Upgrade

Upgrade works enhances an existing asset to provide a higher level of service or extends the life beyond that which it had originally. Upgrades are included in calculations for renewal investments as the works effective renewal an existing asset to a higher standard. Below is a summary of the planned upgrades.

Upgrade Works - Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Plant, fleet and equipment	1,199,250	-	-	-	-	-	-	-	-	-	-
Library collection and resources	206,062	210,562	215,649	220,178	ı	ı	-	-	-	-	-
Information management and technology	187,650	100,000	50,000	50,000	-	-	-	-	-	-	-
Artworks, antiquities and memorials	-	-	-	-	-	-	-	-	-	-	-
Subtotal	1,592,962	310,562	265,649	270,178	-	-	-	-	-	-	-
Infrastructure											
Roads	-	70,000	3,285,000	2,895,000	1,080,000	=	-	-	-	-	-
Bridges	-	80,000	1,380,000	2,010,000	1,000,000	=	-	-	-	-	-
Transport facilities	1,870,000	484,435	1,775,000	-	-	-	-	-	-	-	-
Street furniture, bus shelters, and guardrail	20,000	30,000	80,000	300,000	300,000	175,000	175,000	175,000	75,000	75,000	75,000
Pathways	512,000	736,900	5,170,000	2,500,000	1,000,000	-	-	-	-	-	-
Stormwater and floodplain management	2,830,000	655,000	510,000	1,600,000	1,130,000	-	-	-	-	-	-
Playgrounds	-	-	-	-	-	200,000	200,000	200,000	200,000	200,000	200,000
Open spaces	5,160,000	520,000	535,600	551,668	520,000	600,000	200,000	200,000	200,000	200,000	200,000
Pool structures	350,000	-	-	-	-	-	-	-	-	-	-
Buildings	615,000	11,845,000	8,800,000	3,590,000	2,550,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Waste	125,000	300,000	6,590,000	10,760,000	7,620,000	15,900,663	9,602,737	9,541,556	459,525	176,292	20,188,614
Subtotal	11,482,000	14,721,335	28,125,600	24,206,668	15,200,000	18,875,663	12,177,737	12,116,556	2,934,525	2,651,292	22,663,614
Totals	13,074,962	15,031,897	28,391,249	24,476,846	15,200,000	18,875,663	12,177,737	12,116,556	2,934,525	2,651,292	22,663,614

Asset Management Plan





11.6 Expansion and New works

Expansion and new works provide additional service capacity over and above what already exists. There are ever increasing demands for pathways as the community desire for alternative transport to cars to get around our suburbs, and for supporting healthy and active lifestyles grows. Investment into the stormwater and floodplain network will see implementation of priority projects from floodplain risk management plans. The investment into buildings will see the progress and delivery of planned works at the Southern Suburbs library and community hub.

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Plant, fleet & Equip.	-	-	-	-	-	-	-	-	-	-	-
Library collection	-	-	-	-	-	-	-	-	-	-	-
IMT	44,500	42,000	50,000	50,000	50,000	1	-	-	-	-	-
Artworks, Antiquities and Memorials	-	-	-	-	-	-	-	-	-	-	-
Land	250,000	250,000	-	-	-	120,000	120,000	120,000	120,000	120,000	120,000
Subtotal	294,500	42,000	50,000	50,000	50,000	-	-	-	-	-	-
Infrastructure											
Roads	5,920,000	30,950,000	26,750,000	14,500,000	20,500,000	44,606,000	47,065,000	53,010,000	42,545,000	45,692,000	36,359,000
Bridges	-	-	-	•	25,000	25,000	250,000	227,000	300,000	280,000	-
Transport facilities	1,338,000	1,300,000	940,000	1,046,494	300,000	825,000	825,000	825,000	825,000	825,000	825,000
Street furniture, bus shelters, and guardrail	33,000	260,000	325,000	75,000	75,000	250,000	250,000	250,000	250,000	250,000	200,000
Pathways	5,598,000	3,768,000	2,975,000	3,150,000	1,150,000	5,550,000	5,550,000	5,550,000	5,550,000	5,550,000	5,550,000
Stormwater and floodplain management	1,770,000	1,555,000	430,000	1,800,000	3,050,000	4,135,000	4,135,000	4,135,000	4,135,000	4,135,000	4,135,000
Playgrounds	-	-	-	•	-	-	-	-	-	-	-
Open spaces	2,995,000	2,075,000	8,190,000	440,000	40,000	1	-	-	-	-	-
Pool structures	-	-	-	-	-	-	-	-	-	-	-
Buildings	5,255,000	25,895,000	23,500,000	27,330,000	750,000	-	-	-	-	-	-
Subtotal	12,525,000	3,450,000	400,000	350,000	10,500,000	-	-	-	-	-	-
Totals	35,434,000	69,253,000	63,510,000	48,691,494	36,390,000	55,391,000	58,075,000	63,997,000	53,605,000	56,732,000	47,069,000

Asset Management Plan





11.7 West Dapto Works

The plan includes investment of over \$110million into delivering works from the West Dapto Development Contribution Plan over the 2025/25-2028/29 years to support the growing community. The plan includes infrastructure additional infrastructure for managing flood risk, transport projects to help the community move in and around the neighbourhood, and open space and recreation assets for active outdoor living. Whilst buildings do not form part of the essential works items that can be funded through the contribution plan, there are plans to provide social infrastructure in the form of community facilities. These facilities will require an alternate funding strategy. However, we are continuing with plans to acquire the required land to provide the community facilities utilising funding from development contributions. The works are classified as new, and expansion works and then categorised by the asset type. The Infrastructure Delivery Program identifies the works in West Dapto by Delivery Stream. Additional work is required to review the timing of implementation of works identified in the West Dapto Development Contribution Plan, including forecast development rate and financial model to ensure the required resources and funding will be available to deliver the works.



11.8 Infrastructure Delivery Program

A key deliverable from Council's annual planning cycle is the development of the 4-year Infrastructure Delivery Program. Through this process, Council reviews the needs of our community as well as the services Council provides, then prioritises the projects that can be delivered to help facilitate these services based on the resources available. The 2025-26 – 2028-29 Infrastructure Delivery Program, as summarised below identifies investments in over 429 projects; all of which contribute to building an extraordinary Wollongong. Refer to the published IDP on Council's website for further details on specific projects across the 4-years.

Asset Category	2025/26	2026/27	2027/28	2028/29	Total Budget over 4 yrs
Artwork, antiquities and memorials	106,600	109,800	113,000	100,000	429,400
Bridges	3,085,000	3,895,000	3,410,000	1,625,000	12,015,000
Buildings	45,175,000	38,250,000	40,420,000	14,920,000	138,765,000
Information management & technology	1,400,000	900,000	1,050,000	933,000	4,283,000
Land	250,000	-	-	-	250,000
Library resources	1,403,749	1,437,663	1,467,854	1,503,100	5,812,366
Open space	3,565,000	9,695,600	1,981,668	1,520,000	16,762,268
Pathways	7,369,900	12,530,000	10,120,000	6,450,000	36,469,900
Plant and Equipment	4,617,920	4,795,414	4,226,500	7,144,433	20,784,267
Playgrounds	995,000	1,000,000	1,000,000	1,000,000	3,995,000
Pools	6,000,000	3,250,000	500,000	6,010,000	15,760,000
Roads	54,295,000	48,654,144	32,706,900	35,784,375	171,440,419
Stormwater and Floodplain Management	7,665,000	4,185,000	6,400,000	7,200,000	25,450,000
Street furniture, bus shelters and guardrails	535,000	435,000	625,000	625,000	2,220,000
Traffic facilities	1,784,435	2,715,000	1,046,494	300,000	5,845,929
Waste	4,010,000	7,490,000	11,685,000	23,970,000	47,155,000
Infrastructure Strategy & Support	3,088,724	3,903,044	10,565,296	13,941,223	31,498,287
Grand Total	145,346,328	143,245,665	127,317,712	123,026,131	538,935,836



12 Asset Management Plans

This section of the plan provides a summary of information relating to specific groups of assets. Each section follows a similar format which provides an overview the following sections:

Summary of the asset group – general background information about the group of assets covered in the respective asset plan.

Profile - linkage to our community strategic plan goal and service that the asset group supports.

Strategic Priorities – outlines the supporting documents that are aligned to the service that provide supporting information for planning the asset group. This section also provides a summary of the future impacts on the service as it relates to assets. Some plans include details on the provision of assets for the group.

Asset Snapshot – this section provides a summary of the asset register details for the group. Information on the valuation of the asset group, a summary table of the asset financials, and details of the components and attributes of the assets. The table on the financials generally includes information about the quantum of the asset, the average useful life of the asset, carrying value, annual depreciation and current asset cost. The asset snapshot also includes information on the risks and criticality of the asset, operations and maintenance summary and depreciation and degradation approach.

Future Demand – this section outlines the major changes that are likely to impact demands on the service supported by this asset group. A summary is provided on demand drivers, demand forecast, impact on assets, demand management plan, and asset programs to manage demand.

Roles and Responsibilities – Accountability for implementing actions is key to the success of asset management. Each plan includes a list of roles and responsibilities to help ensure key actions are allocated to the appropriate officers.

Performance – We monitor the performance of the asset and our actions to keep the asset in service. The way that we monitor, and measure performance varies according to the type of asset. We leverage the community satisfaction survey for information on satisfaction and utilisation of some of our services and facilities to understand the performance of the asset. This is an area that we need to develop capacity to better understand how assets and actions are achieving outcomes.

Future Investments – This section of the plan summarises the plans for acquisition and upgrade, renewals, decommissioning and disposal plans for the asset group. A summary table showing the 10-year forecast for depreciation; required maintenance and operational costs to keep the asset group in service; the capital investment toward renewal, upgrade, expansion, and new works on the asset group, and an estimate of the required renewals based on the current asset data. A 10-year outlook on projects is also provided.

Improvement Plan – improving our asset management maturity will ensure that we continue a path of sustainability and extract value out of asset investment decisions. In developing this plan, we considered opportunities to improve in each asset grouping. Where observations were made that are applicable across all asset groups, we listed these recommendations in section 11 – Improvement Plan. Each improvement plan includes a brief description of the issue and allocates a responsibility for acting on the recommendations and a suggested timeframe for actioning. It will be the responsibility of the actioning officer to review the recommendations and report on status and outcome of the review in future versions of the asset management plan.



12.1 Roads

2035

Roads are part of our Transport service that includes the design, delivery, management, and advocacy of transport infrastructure. The service aims to provide a transport network that is safe, efficient, equitable, effective, and sustainable. The service supports the community through creating the provision of transport access for residential, business, recreation, leisure, and tourism activities.

Roads comprise the largest value of the infrastructure assets that Council manages on behalf of the community. The roads asset group includes road pavements, kerb, and guttering, retaining walls and car parks. We manage approximately 8.7 million square metres of road pavement (equivalent to about 1,174 soccer fields) over 1,186km, 1,850km of kerb and gutter and 480,000 square metres of car park pavement.

12.1.1 Profile

Community Strategic Plan Goal: Goal 2: We have well planned, connected, and liveable places

Service: Transport Services

The Roads and Bridges service delivery stream provides the community with a network of roads that are safe, functional, and support efficient and multi modal transport services. Roads are primarily guided by Council's Integrated Transport Strategy supporting document.

12.1.2 Strategic priorities

Transport services are guided and informed by the following strategic supporting documents:

- Draft Wollongong Integrated Transport Strategy (ITS)
- Wollongong Cycling Strategy 2030
- Wollongong City Centre Access and Movement Strategy 2013
- Keiraville Gwynneville Access and Movement Strategy 2020
- West Dapto Contributions Plan
- Wollongong City-Wide Development Contributions Plan

The draft Wollongong Integrated Transport Strategy identifies the following key strategic framework and priorities:

Vision - Wollongong is a liveable and green city where everyone has viable transport choices that provide connected journeys through Country that are safe, reliable, and accessible.

Guiding Principles:

- · Connecting to Country and Place.
- Sustainability-focused.
- Multi-modal transport options for all.
- · Integrated land use and transport decisions.
- Work with the community for change.
- Comfortable and convenient active travel





Goals – the strategy identifies a range of actions linked to achieving the following six goals:

- Goal 1 | Competitive Public Transport
- Goal 2 | Everyday needs within 15 minutes
- Goal 3 | A connection to Country and sense of place
- Goal 4 | Increased use of active modes
- Goal 5 | All ages and abilities can get around with ease
- Goal 6 | Sustainable transport options

The West Dapto Contribution Plan includes a total of 29 road projects, including upgrades to 17 existing roads and 12 new roads to support the growth in the area. The 17 existing roads have been assessed as not meeting the expected capacity and serviceability needs of the forecast population.

Table 10.1.2 summarises the actions from the Integrated Transport Strategy and the West Dapto Contributions Plan with a relationship to roads and an assessment of the direct impact:

Table 12.1.2 - Supporting Document Actions

Supporting Document	Action	Resource Impact
Integrated Transport Strategy - ITS-03	Design and implement on- road measures to prioritise public transport such as dedicated bus traffic light signalling, queue jumps and bus lanes on key transport corridors.	Implementing the actions will require allocation of funding towards the initiatives. Noting that signalised intersections are under the care and control of Transport for NSW, however funding upgrades on local roads will need to be resourced by Council.
Integrated Transport Strategy - ITS-49	Seek State and Federal funding for the Northcliffe Drive Extension to the M1	The extension of Northcliffe Drive is identified in the West Dapto Contributions Plan (Item TR18). Concept to be prepared to enable funding application.
Integrated Transport Strategy - ITS-53	Develop a freight and services plan for the Wollongong LGA	The freight services plan may identify roads that require upgrade to cater for additional loading.
West Dapto Vision and Contribution Plan	A total of 29 road projects to meet the transport needs of the growing population.	The capital cost of most proposed road projects is funded through development contributions. The exceptions include Yallah Road, Marshall Mount Road, and the Marshall Mount Town Centre Bypass, which are 75.76%, 44.28% and 22.66% respectively funded through development contributions. The ongoing costs for operations, maintenance and renewal will be funded through general funds. The timing of works may be impacted by collection of contributions, and provision of road upgrades may precede the forecast income to fund the operational and maintenance costs of the assets.
West Dapto Vision and Contribution Plan	There are five principles in the Vision relating to the road network.	The design of upgraded and new roads should address the five principles of: 1. Supporting land use patterns 2. A safe, connected and legible road network for all users 3. Design roads to complement the environment 4. Quality infrastructure



Asset Management Plans

	5.	Road network to support sustainable transport
		outcomes

12.1.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Transport relating to road and car park infrastructure. The strategic response as it relates to roads assets, and the consequences of not funding the impact is summarised in Table 12.1.2.1 below.

Table 12.1.2.1 – Future Impacts and Strategic Response

Future Impacts	Strategic Response	Consequences of Not Funding
Continued urban expansion, including West Dapto has an increased need for new roads and bridges. Continued funding of the renewal gap for the City's ageing road network.	The West Dapto vision and contribution plan articulate the strategy for provision and funding of road infrastructure to support urban expansion. Council routinely reviews the contribution plan to review assumptions, costs, and forecasts. The addition of new road infrastructure increases the annual depreciation expense and ongoing maintenance and renewal requirements. These expenses are not able to be funded by development contributions.	Serviceability of existing roads are likely to suffer where they are not designed to carry the expected traffic volumes. Lack of new roads will reduce the accessibility of the area.
Adapting to changes in availability / pricing of materials (bitumen and concrete).	Design of roads to review appropriate materials for the location, including lifecycle costs.	Potential for increased lifecycle cost of road infrastructure.
State changes in transport planning / policy, moving to 15% public transport for Wollongong city centre from 7-8% currently (adopted State Plan target).	Changes in the public transport network will need to be reviewed to determine impact on road pavements located on the route. Accelerated deterioration and requirement for strengthening is likely on roads not designed for increased bus movements.	Consequences are unknown at this point and difficult to forecast. Roads not designed for increased loading of buses will deteriorate at a faster rate and require early intervention for renewal and upgrade. Council will continue to be an active stakeholder in NSW Government local public transport planning to identify impacts.
Increasing requirements of the Disability Discrimination Act.	Accessibility audit to be undertaken as part of centre plans and public transport nodes. Audit may identify localised changes to road levels to improve accessibility.	Inability to provide equitable and inclusive access for people with mobility challenges.
Investigation of options for park and ride facilities may result in growth in this service moving forward. Management of changing parking demand within Wollongong CBD.	The park and ride options study may identify the need for additional parking areas, or revision of existing parking areas. The outcomes will inform future asset plans for the road asset group.	The consequence of not funding the study may result in increased traffic within the city centre, increasing congestion and travel times.



Asset Management Plans

Future Impacts	Strategic Response	Consequences of Not Funding
Disruptive technology, ridesharing, and driverless cars.	This includes innovation and changes to the existing transport network that creates a new market and replace an existing product. Some examples include car share, ride sourcing, multi-model transport, micro-mobility, driverless vehicles.	Supporting the growth of disruptive technology may help support movement away from single vehicle trips. It may also impact the planning and delivery of car parking in certain locations.
Street sweeping - Increased demand with increased population and tourism. Increased demand with the increase supply of assets and infrastructure such as additional usage of high-profile tourist facilities, cycle paths, additional roads with West Dapto expansion.	The increased demand may require a review of the current service standard for street sweeping to ensure frequency is aligned to areas with higher litter generation. The plan identifies the additional required maintenance and operational expenditure associated with additions to the road network.	Not funding the estimated required maintenance and operational costs associated with additions to the road network will impact the existing service standard.

12.1.2.2 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications will create changes in demand that influences our planning associated with road infrastructure as part of the enabling infrastructure and transport, as summarised below in Table 12.1.2.2:

Table 12.1.2.2 – Future Demands and Asset Response

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	Areas of growth require new road and bridge networks to support development. Some existing road and bridge infrastructure require upgrade to support the changes.	The main area of growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the bridges required to support the growth and the funding contributions from development towards the recommended infrastructure.	The West Dapto contribution plan identifies the infrastructure and funding required to meet the demand. This plan integrates the contributions plan forecasts.
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may create additional demand and capacity issues for existing bridge infrastructure.	The draft Integrated Transport Strategy provides a strategic framework for traffic management across Wollongong.	Any identified need to upgrade capacity of bridge infrastructure is included in the new and upgrade plan.



12.1.2.3 Road Provision and Management Arrangements

The responsibility for management and provision of roads across our area (and generally across NSW), is through legislative and administrative arrangements between Transport for NSW and Councils. There are three main categories of road: State, Regional and Local. Under the arrangements, roads classified as State roads are administered and funded by Transport for NSW.

Regional and Local roads are administered, managed, and funded by Council. We plan and carry our operational, maintenance, renewal, and expansion activities for regional and local roads. Council does not maintain or construct State Roads.

Regional roads provide an intermediate function between State roads and the local road network. They typically carry large volumes of traffic or provide strategically significant connections. Due to the importance of these roads to the transport network, the NSW Government provide supplementary funding towards the management of regional roads. Transport for NSW is required to maintain a schedule of classified roads and the network of regional roads in our area includes sections of Old Princes Highway and Princes Highway, Towradgi Road, Pioneer Road and Squires Way, Throsby Drive, Denison Street, Gladstone Avenue, Bridge Street, and Northcliffe Drive.

Local roads are funded and managed by Council. We received financial assistance grants for the management of these roads, primarily supported by the Australian Government, through the Federal Assistance Grant for local roads component and the Roads to Recovery program.

Most of the road network managed by Council are local roads. We use a road hierarchy classification to assist in assessing the risk and criticality profile associated with each asset. The hierarchy assigned to each local road asset is associated with the current and expected traffic volumes and vehicle type (percentage of heavy vehicle). A summary of the hierarchy and the respective percentage of our local road network is provided below:

- Sub-arterial 5% (includes Regional Roads)
- Major collector 12%
- Minor collector 18%
- Major local 20%
- Minor local 44%
- Fire trails

The hierarchy is used to establish and apply service standards for the management of the road. It informs our operational planning for traffic and transport, and maintenance and renewal intervention and response times.

12.1.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Roads

Last comprehensive revaluation: 2022

Valuation Information: – Road infrastructure assets are recognised using the cost method, which equates to the current replacement cost of a modern equivalent asset. The cost to replace the asset (gross replacement cost) is to equal the amount that a market participant buyer of that asset would pay to acquire it.





Asset Management Plans

Fair Value Hierarchy - the general valuation approach to determine the fair value of the road infrastructure inventory is to determine a unit rate based on square metres or an appropriate unit supported by market evidence (Level 2 input). Further to this other input such as asset condition and useful life require a significant level of professional judgement and can impact significantly on the fair value. As such the level of valuation input for these assets was considered level 3.

Asset Classification (L4)	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Sum of Current Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Car Parks					
Boat Ramp	16	67	3,824,697	45,400	1,214,778
Kerb and Gutter	229	79	10,688,584	133,563	6,626,067
Road Base	351	78	25,115,642	328,565	15,308,452
Road Earthworks	329	N/A*	8,992,542	-	8,992,542
Road Seal	322	44	13,179,422	333,195	7,399,552
Road SubBase	17	66	1,075,438	20,411	1,028,323
Retaining Walls	289	59	78,834,058	1,392,581	58,010,719
Roads					
Kerb and Gutter	11,250	80	476,505,738	5,951,244	165,101,349
Road Base	6,461	75	416,221,475	5,769,979	170,270,627
Road Earthworks	5,862	N/A* (40)#	132,603,384	87,003	131,904,727
Road Seal	6,659	41	228,241,543	6,641,094	92,732,471
Road SubBase	6,072	76	640,782,218	8,717,627	221,623,916
			2,036,064,740	29,420,662	880,213,524

^{*} Earthworks are typically treated as non-depreciable assets.

12.1.3.1 Components and attributes

Roads are recognised at component level depending on the complexity of the structure, including:

- Earthworks this comprises the original excavation or shaping of the land to provide a formation for the road. It prepares the natural ground or subgrade for the road to be built on. Most of our earthworks are recognised as non-depreciable asset as we do not expect to replace the formation of the earthworks.
- Sub-base provides stiffness to distribute traffic loads on to the subgrade (natural ground). It provides a
 working platform for the construction and may provide a either drainage of the base course or
 waterproofing on the subgrade depending on the soil conditions.
- Base the base course provides stiffness to support the seal and resist movement and deformation.
 This is the depth of pavement that carries and spreads majority of the wheel load onto the sub-base and subgrade below. The depth and type of material is designed to carry the forecast traffic and be compatible with the geotechnical conditions. Most of our roads use a compacted gravel.



[#] four road assets at Whytes Gully have been recognised as having a life associated with the life of the cell. These assets have an expected useful life of 40 years and are depreciated. At the end of the cell life, the haul roads will no longer be in service.



Seal (surface) – this layer provides a waterproofing for the base course to protect it from deteriorating.
 The seal also provides a friction later to improve road safety. The primary type of seal in our area is asphaltic concrete (AC), and to a lesser extent, sprayed seal, and concrete.

Our roads are broken into segments to enable us to plan and manage the asset effectively. We are currently undertaking a review of the road segments to validate and confirm the spatial and dimensional characteristics against the asset register. This activity will ensure our data is accurate to improve the reliability of our planning.

Kerb and guttering is recognised as a single component asset. We follow the same principles of segmenting the kerb and gutter network, with the segments directly aligned to roads.

Car parks assets at broken into multiple components, using a combination of the same road components of earthworks, sub-base, base, and seal; in addition to kerb and guttering. We currently recognise boat ramps as a car park asset. It is recommended that the classification be reviewed to align boat ramps with other marine structures (wharves, jetties, seawalls, etc) as they share similar coastal hazards and legislative provisions. Car parks associated with the boat ramp should remain in the car park classification.

12.1.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5. A review of the Transport Service identified that it is a critical service. The roads identified as critical are derived from the major transport routes in the local emergency management plan. The only road under Council control is Old Princes Highway from the Wollongong City Council boundary south of Waterfall through to Bulli Tops. Council does share some operational function on Lawrence Hargraves Drive in terms of footpaths and parking lanes in some areas. However, Transport for NSW remains the Roads Authority for the road.

Whilst not defined as Critical in accordance with the definitions in Section 7.1.5, there are roads that provide access to essential services and other facilities that have a high consequence if the road is not in service. These locations are recommended to be identified as part of the improvement program, and the appropriate criticality rating associated with the asset attributes. This will influence the service planning for these roads.

12.1.3.3 Operation and maintenance requirements

Routine inspections are part of our operational requirements for roads and include:

- Level 1 inspections primary function of this inspection is to identify defects. We are transitioning this to camera-based inspections. We expect every road to be traversed by the camera between 1-26 times per year.
- Level 2 inspections network visual condition assessment on a 4-yearly basis.
- Level 3 inspections network camera and laser profile on road pavements on a maximum 5-year basis.
 More frequent monitoring enables improved calibration of the modelling for treatments and is recommended on a 2-3 yearly interval.
- Routine and minor maintenance as required based on Level 1 inspections.

With the improvements in technology for camera-based inspection and condition monitoring, we expect changes to our current inspection routine. We will continue to work with industry experts to explore the ability to apply the technology to other network assets such as kerb and guttering, transport facilities, guardrails, street signs and line marking. The camera-based defect monitoring will be assessed to determine if the data is able to supplement Level 3 inspections.





Roads require routine maintenance actions, including those listed below, to ensure they remain serviceable and meet the expected useful life:

- · routine inspections
- · removal of vegetation and debris
- surface repairs
- · street sweeping
- spill containment
- · load limit signage

Other road related operational and maintenance activities on roads such as works relating to guardrails, transport facilities, road signs and line marking are addressed in other sections of the asset plan.

12.1.3.4 Depreciation and degradation curves

Road assets and component use a straight-line depreciation. Road pavements typically follow a s-curve degradation profile however our current planning is largely based around a straight-line degradation profile. As we develop expertise in strategic asset modelling within the asset management system, we will transition to a more appropriate degradation profile to enable us to plan the most cost effect timing for treatment interventions.

12.1.4 Roles and responsibilities

Service Manager: Manager Infrastructure Strategy and Planning

Role	Lifecycle	Function	Responsibility	Activities
	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery
Service Management	Operation	Service Operations	Manager Infrastructure Strategy and Planning	Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation
	Delivery and End of Life	Asset Acquisitions and Disposals	Manager Infrastructure Strategy and Planning	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service



Role	Lifecycle	Function	Responsibility	Activities
				Arrange establishment or termination of agreements (utilities)
Asset management	Planning	Asset Planning	Manager Infrastructure Strategy and Planning	Complete condition and performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal planning
		Asset Data	Manager Infrastructure Strategy and Planning	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	Revaluation Unit rates Estimates Monitor expenditure
	Delivery	Project Sponsor	Director Infrastructure + Works	Approval of project plan Oversee business proposal Capital expenditure review (OLG)
		Asset Concept	Manager Infrastructure Strategy and Planning	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
		Program Managemen t	Manager Project Delivery	Oversee project as part of program Responsible for managing overall program costs, risks, progress
Project Delivery		Asset Design	Manager Project Delivery	Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process
		Asset Delivery	Manager Project Delivery	Cost estimate Value engineering Procurement strategy Contract management Procurement
			Manager City Works	Project management Project commissioning and handover



Role	Lifecycle	Function	Responsibility	Activities
	Maintenance	Asset Maintenance	Manager City Works	Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works
Maintenance and	Operation	Asset Operations	Manager City Works	Street sweeping Removal of debris Road spill response
Operation Management			Manager Development Assessment and Certification	Road occupancy applications Road Naming Subdivision certificates
			Manager Infrastructure Strategy and Planning	Heavy vehicle access permits Local Traffic Committee referrals

12.1.5 Performance

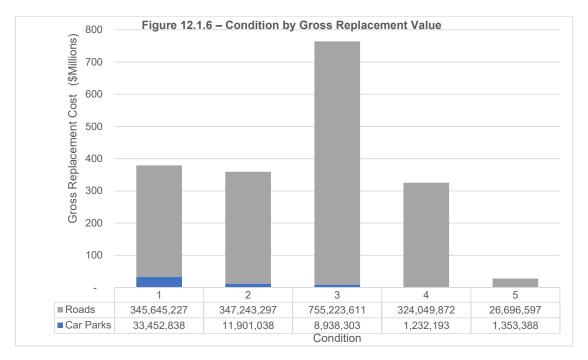
We monitor the performance of our road assets by condition (actual physical and technical state of the asset), capacity and customer satisfaction. The condition of road pavements is comprehensively monitored on a regular basis. We utilise a combination of visual condition information and laser measured surface data to determine a pavement and surface condition of our roads. Some of the factors analysed include:

- Patching
- Surface defects
- Stripping
- Ravelling
- Edge breaks
- Cracking
- Pavement defects
- Roughness

We weight the factors against severity and analyse according to the road classification to determine when we will need to intervene with treatments. It is recommended that the condition monitoring continue a regular basis at no longer than 5-year intervals.

An overview of the condition of road assets by gross replacement value is provided in Figure 10.1.6 below.





Capacity of the road network is monitored through our traffic and transport planning function. The team review functional assessments of travel times and classification of roads.

12.1.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey includes results relating to roads as part of the Direct Services. Utilisation of direct services is not measured as part of the survey. The summary below details the community satisfaction with three direct services relating to roads:



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Direct Services	2010	2012	2014	2017	2019	2021	2023	Significant Change Since 2021
Street cleaning	3.3	3.3	3.4	3.2	3.7	3.7	3.6	⇔
Maintenance of local roads	2.8	2.8	3.1	2.7	3.1	3.2	2.8	y
Provision of parking in high demand areas (city centre, foreshore)	-	-	•	-	-	2.5	2.5	\$

Street cleaning and provision of parking have remained consistent, the community satisfaction on local roads has decreased since 2021. It is noted that an extended period of wet weather resulted in accelerated deterioration of the surface of some local roads. It is also noted that the condition of State Roads under the care and control of Transport for NSW may influence the view of some survey responders.

12.1.5.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Customer Leve	els of Service			
Safety	Assets are safe for use	Number of claims alleging injury or damage associated with condition of an asset	Asset condition not found to have contributed to injury or damage.	
Function	Roads are fit for purpose	No restrictions that unreasonably limits usability of road assets	Number of requests for exemption from restriction	
Serviceability	Roads are available for use	Percentage of roads in serviceable condition.	No "closed" road assets, except those identified for decommissioning or temporary (e.g., works, flooding, etc)	
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey Direct Services – Internal Benchmark for Street cleaning	No significant decrease in average satisfaction results to previous survey	The average across seven surveys is 2.9, and the rating for 2023 is consistent at 2.8. However, there was a decrease from the 2021 result of 3.2 which is considered a significant decrease
		Community survey Direct Services – Internal Benchmark for Maintenance of local roads	No significant decrease in average satisfaction results to previous survey	

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Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
		Community survey Direct Services – Internal Benchmark for Provision of parking in high demand areas (city centre, foreshore)	No significant decrease in average satisfaction results to previous survey	
Residents' Wish List	The community do not see this asset group or associated service as an area of focus for council over the next 4-years	Community survey internal benchmark – "In your view what are the three key areas you think Council should focus on over the next four years?"	Less than 10% increase on previous percentage	Roads and traffic as a group increased from 35% to 41% between 2021 and 2023. This is a 17% increase
Technical Leve	els of Service			
	Level 1 condition assessment	Annual	75% compliance	©
Condition Inspection	Level 2 condition assessment	4-yearly	75% compliance	
	Level 3 condition assessment	Maximum 5-yearly interval	100% compliance	
Load limit signage	Visual inspection	Annual inspection	100% compliance	
Event damage	Level 1 inspection	Within 2 weeks of incident	100% compliance	Target met
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Assets with high maintenance costs identified for major maintenance program or renewal.	
Risk	Assets are maintained within a tolerable risk profile.	Risk assessment of road infrastructure to be undertaken.	All assets managed in accordance with the infrastructure risk appetite statement	69
		Percentage of identified renewals funded		
Performance	Asset management actions and funding allocation supports long-term	Percentage of planned renewals completed		
	sustainability	Percentage of identified proactive maintenance works completed		



12.1.5.3 Roads Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact road infrastructure are summarised in Table 12.1.5.3 below:

Table 12.1.5.3 - Hazards Exposure - Roads

Risk Rating	Hazard Name	Rating priority	Residual Risk Rating	
1	Severe Storm	Extreme	Major/ Likely	Severe storm with accompanying lightning, hail, damaging winds, and/or rain that causes severe damage and/or localised flooding (includes tornado and waterspout) and coastal erosion. This hazard may impact roads through temporary closures due to flooding, deposited debris, sustained damage from uplifted trees, loss of support and wash out from erosion.
2	Fire – Bush/Grass	Extreme	Major/ Likely	Major fires in areas of bush or grasslands. The impact on roads includes temporary closures due to poor visibility, fallen trees, fire impacted roadside assets (signage, guardrail), and damaged road seal for heat.
4	Flood – Lake and Flash	Extreme	Major/ Likely	Heavy rainfall causes excessive localised flooding with minimal warning time. This hazard may impact roads through temporary closures due to flooding, deposited debris, sustained damage from uplifted trees, loss of support and wash out from erosion.
6	Infrastructure Failure – Power	Extreme	Major/ Possible	Power failure may impact street lighting
9	Landslip/ Mudflow/ Rockfall	High	Moderate/ Likely	Landslip/mudflow/rockfall resulting in localised or widespread damage. Landslip can cause instability and closure of the road. These impacts can create medium-to-long-term closures whilst support is reinstated. Mudflow and rockfall are typically associated with short-term closures to effect removal of debris. May result in the need for stabilisation of adjoining areas.
12	Transport Accident – Rail	High	Moderate/ Possible	A major rail accident on the Illawarra line, particularly on the steep descent through the Illawarra Escarpment down to Wollongong (including the viaduct/tunnels), resulting in a number of fatalities, injuries and/or damage to properties along the rail corridor, restriction to supply routes and/or protracted loss of access to or from the area; possible environmental damage. Impacts to the road network due to closure of the railway and diversion of rail passenger transport to the road network. Emergency access may require localised closures.
13	Transport Accident – Road	High	Moderate/ Possible	A major vehicle accident that disrupts one or more major transport routes that can result in risk of people trapped in traffic jams, restrict supply routes and/or protracted loss of access to or from the area. Impacts to localised area due to closures and traffic diversions. An accident may result in the need to contain and clean spills, and/or damage to the road surface.

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Risk Rating	Hazard Name	Rating priority	Residual Risk Rating	
15	Major Structural Collapse	High	Major/ Rare	Failure of a major structure with or without warning owing to structural failure or because of external/internal events or other hazards/incidents. Incidents are likely to require road closures. Structure failure may cause instability or loss of support to the road.
17	Infrastructure Failure – Water	High	Major/ Rare	Major failure of essential utility for unreasonable periods of time because of a natural or human-caused occurrence (>24 hours). Uncontrolled release of water from mains is likely to result in direct damage and washout of road pavements.
18	Earthquake	High	Major/ Rare	Earthquake of significant strength (> Magnitude 7) that results in localised or widespread damage. The extent of damage can vary widely from minor cracking to major sinkholes and failures.
19	Tsunami – Land inundation threat	High	Major/Rare	A tsunami wave of magnitude that presents a risk to land and marine elements. This hazard may impact roads through temporary closures due to inundation, deposited debris, sustained damage from uplifted trees, loss of support, major wash out.
22	Hazardous Materials	Moderate	Moderate/ Unlikely	Release of hazardous material resulting in the closure of the road, and potential damage to the asset.
24	Coastal Erosion	Rare	Minor/ Low	Damage to road assets resulting from significant coastal

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any roads impacted by the event.

Resilience ratings for some individual Council roads will be higher than the overall ratings above. These will need to be assessed and managed according to risk. As an example, the access road to Bellambi Boat Ramp is impacted by coastal erosion and needs to be monitored following coastal storm events.

12.1.5.4 Climate Hazards

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to roads are flooding, bushfires, storms, and sea-level rise. A summary of the actions from the CCAP and relation to roads is provided in Table 12.1.5.4 below.

Table 12.1.5.4 - Climate Hazards - Roads

Priority Ac	Priority Actions						
Hazard	Climate Change Adaptation Plan Action	Road Infrastructure Actions					
Flooding	Continue managing flood risk through floodplain risk management plans, incorporating climate predictions.	Review floodplain risk management study and plans for recommended work items on roads. Identify flood evacuation routes for risk management plans.					
	Continue and monitor maintenance schedules to reduce the risk of drainage network blockages.	Road drainage to be inspected in accordance with agreed levels of service to identify blockages. Levels of service to be based on					

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Priority Ac	tions	
Hazard	Climate Change Adaptation Plan Action	Road Infrastructure Actions
		the criticality of the drainage network.
	Undertake community education to increase awareness of the dangers of floodwaters and precautions to minimise risks to people and property.	Education to increase awareness of driving through flooded roads.
Bushfire	Proactively maintain fire trails and other bushfire related infrastructure to be fire ready e.g., hazard reduction.	Fire trails are listed as a type of road. Inspections and maintenance of Council fire trails are scheduled. Also monitor evacuation routes during times emergency management. Check for damage to road infrastructure following bushfires.
	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure.
Storms	Identify Council's business continuity plans (BCPs) and review and updated as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any changes to critical assets will be listed in revisions of the asset management plan, and appropriate management plans developed.
Sea-level	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure. The current Wollongong Coastal Zone Management Plan 2017 (CZMP) identifies roads and car parks with current medium risk, with some locations expected to increase in risk to high by 2050. The CZMP will be placed by the Coastal Management Program soon.
	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events.

12.1.5.5 Coastal Zone Management Plan

The Wollongong Coastal Zone Management Plan 2017 (CZMP) reviewed the vulnerability of the roadways and parking to storm erosion and sea-level rise induced foreshore recession. The CZMP notes that sections of the road network are positioned near the coast. Lawrence Hargraves Drive is a major access road for north-south connections, with sections in Austinmer most at risk. It is noted that Lawrence Hargraves Drive is a State Road under care and control of Transport for NSW, with a management agreement in place for some limited actions for Council. In addition, there are local roads and car parks that remain under threat along the coastline, as summarised in Table 12.1.5.5 below:



Table 12.1.5.5 - Coastal Roads at Threat

Location and Asset	Risk	Risk at	Risk at
	Now	2050	2100
Sharky: Austinmer Boat Harbour car park	Medium	Medium	High
Little Austinmer and Austinmer: Lawrence Hargraves Drive	Medium	High	Extreme
Little Austinmer and Austinmer: Local roads and car park	Medium	Medium	High
Sandon Point: Local roads – Trinity Row, Ursula Street, Alroy Street	Medium	Medium	High
Woonona: Local Roads – Kurraba Rd, Beach Dr, Liamina Av, Robertson	Medium	Medium	High
Rd, Dorrigo Av			
Bellambi Beach: Local Roads – access road to Bellambi boat harbour	Medium	High	Extreme
Towradgi: Local Roads – Marine Pd (north end of beach)	Low	Medium	Medium

Investigation is recommended to identify long-term management options to manage the impacts from sealevel rise and storms at these locations. Where feasible, planning for retreat and relocation should be considered, and where insufficient land is available, costal erosion works considered.

12.1.5.6 Resilient Treatments

Roads are resilient to a range of impacts from external factors, however common causes of accelerated deterioration are moisture ingress into pavements and overloading. Pavements are typically designed to remain relatively dry. Water can reduce the strength of the pavement and its ability to resist deflection under loads. Materials with higher silt and clay content are most impacted by excess moisture. We have also seen an increase in deterioration of some road pavement basecourses because of sustained saturation. Long periods of wet weather may allow excess groundwater to permeate into the subgrade, sub-base, and base layers. This weakens the pavement and may activate clay soils, resulting in pavement failures. In locations where this type of failure has been identified, we investigate options to strengthen and increase the resilience of the pavement to future moisture related damage. This may include addition of longitudinal subsoil drainage, moisture resistant binder, or introduction of drainage layers within the pavement.

Storm events over the last few years have identified other roads vulnerable to damage from storm-induced erosion. Erosion in creeks and open channels adjoining roads has resulted in destabilisation of the banks and loss of support for the roadway. Reinstatement works include stabilisation works to reduce the risk of ongoing damage in affected locations. A list of roads that have sustained damage is to be compiled to monitor for future damage following storm events.

Roads are designed to carry specific traffic volumes and expected heavy vehicle loading. Changes in road usage and loading can accelerate the deterioration of both the surface and the pavement layers. Isolated impacts may occur where point loads have increased on roads from the introduction of a traffic calming measure. Our road pavement designs for renewal and rehabilitation factor in changes in use and loading to ensure the replacement road is more resilient to the changed traffic environment. The design of traffic calming devices should include the identification of increased point wheel loads introduced through defined turning paths (e.g. at roundabouts and chicanes), and or increased braking loads (e.g. raised crossings, threshold and speedhump treatments). Traffic calming treatments should include a review of the road pavement to ensure the design is able to withstand the increased loading.

Wollongong City Council has invested in resourcing a geotechnical laboratory and internal experts to sample road pavements and prepare appropriate resilient pavement designs to reduce whole of life costs.



12.1.5.7 Maintenance Treatments

Road assets are comprised of both medium and long-life assets that provide a high level of service to the community. The seal on roads is expected to have a life of between 20 and 35 years, and the base and sub-base pavement layers below having an 80-plus useful life.

Maintaining the surface is an important action to maximise the life of the underlying pavement layers. Excessive water ingress into the pavement layers can rapidly deteriorate the pavement. We have all seen how quickly a pothole can grow during a few days of rain. As a vehicle travels over a road, the wheel causes compression in the pavement. Water is not able to compress under the loading, so when the pavement is saturated with water, the wheel load forces the water out under pressure, and it results in surface blowout or damage to deeper layers.

Most roads in our area are sealed with asphaltic concrete (AC). The material is one of the most common surface materials of roads in heavily populated areas due to serviceability and durability. For many years we have followed a proactive maintenance program of applying a sprayed seal to the surface of AC. This action in primarily to maintain the waterproofing properties of the surface to protect the pavement below. Ultraviolet radiation from the sun degrades the binder in AC and reduces the flexibility of the seal, leading to cracks and deterioration of the waterproofing qualities. The application of a sprayed seal has been used when the AC reaches the 20-year life and a second application of a sprayed seal after an additional 10 years. This preventative maintenance treatment has been effective in achieving a 40-year life for the seal.

Whilst the treatment has brought benefit in extending the life of pavements, it is noted that sprayed seals have different serviceability to AC. There are risks during the application of the treatment of tracking bitumen on wheels to adjoining surfaces (e.g. driveways), excess loose stones, bitumen spray onto vehicles from tyres, and customer complaints due to not meeting ride quality expectations and impact to private property The applied surface may induce higher tyre noise than an AC surface, and localised defects will typically be reflected through the sprayed seal finish as the treatment does not provide shape correction of the underlying surface.

Whilst there are also risks during the application of AC, the likelihood of tracking bitumen bleed on wheels, or loose stone is significantly lower. Austroads note in the Guide to Pavement Technology, that "AC has greater resistance to trafficking effects, a higher durability and provides a smoother riding surface... Both asphalt and concrete can contribute to the structural strength of the pavement structure whereas a sprayed seal surfacing has no structural contribution."

The life-cycle cost and benefits of applying sprayed seals at years 20 and 30 to the seal have been compared to an alternative of re-sheeting the road. Analysis demonstrates that delaying intervention periods will result in a reduced lifecycle cost, whilst continuing to provide adequate waterproofing of the basecourse.

12.1.5.8 Proactive Maintenance Planning

We have been developing innovative technology to improve our ability and capacity to monitor the road network for defects. In 2022/23 we piloted the application of Artificial Intelligence (AI) technology using dash-mounted mobile phones fitted to waste collection trucks to record video of the road. The technology uses algorithms to interpret the image to identify defects in the road, such as potholes, subsidence, and cracking. When a defect is identified, the system creates a prioritised record based on size, severity, and location. Defects that meet the intervention level are issued for works.

The road Al approach utilises emerging technology and we have been developing and testing the integration for reliability. Our testing confirmed an acceptable level of reliability, and we are now taking steps to implement the system. This requires some updates to our current processes and development of existing





systems to accommodate the changed approach. As we continue to use the technology, we are learning potential capabilities of the technology for application to other road related assets, such as road signs, footpaths, and kerb and gutter. We are also testing the ability to monitor the rate of progression of minor defects over time until they require work to be done.

The use of this technology will see a progressive shift from a predominately reactive road maintenance program to a proactive scheduled maintenance program. The majority of the current road maintenance defect repairs are driven by customer feedback. With proactive monitoring, we expect to see a reduction in the number of requests from the community for defect repairs.

To complement the current work being developed as part of the AI project, it is recommended that a risk-based approach be implemented to managing a range of other road defects. Developing a guideline and system for identification and management of defects in road assets will improve the quality and ensure that hazards are managed based on priority. The Institute of Public Works Engineers have developed *A risk-based approach to managing road defects* for local government, that outlines an inspection intervals, defect and prescribed actions, and trigger levels for maintenance and repair related to respective road classification. Developing this approach will improve allocation of resources and lifecycle costing for future asset planning.

12.1.5.9 Legislative Requirements

- Road Transport Act 2013
- Environmental Planning & Assessment Act 1979
- Protection of the Environment Operations Act 1997
- Catchment Management Authorities Act 2003
- Fisheries Management Act 1994
- Threatened Species Conservation Act 1995
- Native Vegetation Act 2003
- Noxious Weeds Act 1993
- Civil Liability Act 2002

12.1.6 Future Investments

12.1.6.1 New and Upgrade Plans

Table 12.1.6.1(a) includes upgrade of existing and new roads that are listed in the West Dapto Development Contributions Plan. The roads were identified as part of the demand analysis for transport associated with the population growth. The timing of works is driven by the rate of development, with the contribution plan providing indicative timing. The data and references are compiled using the following tables from the West Dapto Development Contribution Plan: 11, 12 and Schedule 3. The table includes roads that are anticipated beyond the 10-year life of the plan; however, they are included for completeness.



Table 12.1.6.1(a) - West Dapto Roads

Ref.	Infrastructure Item	Road Sections	Indicative Timing	Road Cost (pavement plus on-cost)
Existing	Roads			
TR01	West Dapto Road	WD1 to WD17	2020/21 - 2030/31	\$32,228,469
TR02	West Dapto Road Rail Crossing	WDR1	2010/11 – 2031/32	\$539,963
TR03	Sheaffes Road	SH1 to SH3	2021/22 - 2025/26	\$10,101,771
TR04	Paynes Road	P1 to P4	2026/27 - 2030/31	\$5,318,184
TR05	Smiths Lane	N/A	Completed – 15/16	
TR06	Wongawilli Road	W1, W2, W3	2018/19 - 2020/21	\$3,557,076
TR07	Darkes Road	D1 to D6	2027/28 - 2031/32	\$10,115,657
TR08	Shone Avenue	S1 to S5	2012/13 – 2026/27	\$12,131,008
TR09	Bong Bong Road rail crossing	N/A	2045/46 - 2050/51	
TR10	Bong Bong Road	BB1 to BB8	2035/36 - 2040/41	\$5,117,504
TR11	Reddalls Road	R1	2027/28 - 2031/32	\$3,401,971
TR12	Wyllie Road	WY1	2031/32 - 2035/36	\$3,332,544
TR13	Cleveland Road	C1 to C12	2013/14 - 2031/32	\$30,828,605
TR14	Avondale Road	A1 to A6	2040/41 – 2050/51	\$22,737,664
TR15	Huntley Road	H1 to H3	2035/36 - 2040/41	\$7,734,277
TR16	Yallah Road	Y1 to Y4	2031/32 - 2035/36	\$18,872,901
TR17	Marshall Mount Road	MM1 to MM6	2031/32 - 2055/56	\$46,109,958
New Roa	ads			
TR18	Northcliffe Drive extension - east	NR1 to NR12, R2, R3	2031/32 - 2035/36	\$30,310,411
TR19	Northcliffe Drive extension - west	NR13 to NR19	2025/26 - 2034/35	\$7,735,163
TR20	Iredell Road	NR20	2025/26 - 2029/30	\$3,587,299
TR21	Brooks Reach to Cleveland (east)	N/A	2025/26 – 2030/31	
TR22	Fairwater Drive	F1 to F3	Completed - 12/13	
TR23	Fowlers Road Extension	NR21 to NR25	2016/17 - 2022/23	\$27,228,269
TR24	Eastern Link Road (Bong Bong Road to Fowlers Road)	NR26, NR27	2046/47 - 2050/51	\$4,423,448
TR25	Western Ring Road - Shone Avenue to Yallah Road	NR28 to NR44	2021/22 - 2050/51	\$54,041,234
TR26	Brooks Reach to Huntley Link	NR45 to NR49	2035/36 - 2055/56	\$14,856,407
TR27	Eastern Link Road (Fairwater Drive to Avondale Road)	NR50 to NR53	2046/47 - 2050/51	\$10,647,594
TR28	Eastern spine road - Western Ring Road to Huntley Road	NR54, NR55	2046/47 - 2050/51	\$10,725,884
TR29	Marshall Mount Town Centre Bypass (Marshall Mount Road to Yallah Road)	NR56 to NR58	2035/36 - 2040/41	\$16,278,499

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For each \$1M invested into new roads, the required annual maintenance and operational expenditure increases by \$8,800 and annual renewal expense increases by \$17,000.

The total value of roads proposed under the West Dapto Development contribution plan is \$407M. This is estimated to increase the annual required investment into maintenance by \$1.2M and renewals by \$5.4M as shown in Table 12.1.6.1(b) below:

Table 12.1.6.1(b)

Road component	Component % of road cost	Component cost (\$)	Annualised Renewal Requirement (\$)	Required annual maintenance (\$)
Kerb and Gutter	25%	101,828,919	1,272,735	448,047
Road Base	22%	89,636,233	1,183,007	788,798
Road Earthworks	7%	28,372,331	-	
Road Seal	12%	49,281,865	1,183,879	10,418
Road SubBase	34%	138,032,652	1,818,490	
Total		407,152,000	5,458,111	1,247,264

12.1.6.2 Decommissioning and Disposal Planning

Where we identify roads that are not required to meet a required level of service, we may look at decommissioning roads. Unforeseen decommissioning may result from impacts of natural disaster.

Disposal of unmade roads may also occur where the land is not required to provide a transport function.

We will investigate decommissioning of roads where council has acquired properties through the voluntary purchase scheme to mitigate flood risk. In some locations, the road is no longer required to provide vehicle access to adjoining properties. This creates an opportunity to remove the road pavement and associated infrastructure to reduce ongoing liability for renewal and maintenance.

12.1.6.3 Renewal Works

With the proposed change of applying the sprayed seal at the 10 plus 10-year intervals to a resheet option, we will need to adjust our financial treatment of the work. The current sprayed seal treatment is considered a maintenance activity – that is an activity that enables the asset (the underlying AC seal) to achieve its expected service life. The resheeting at the 40-year period is a renewal treatment (replacement with a modern equivalent asset).

By changing our approach to resheeting at the appropriate time, the activity is treated as a renewal. This will require an adjustment and realignment of budgets to reflect the change.

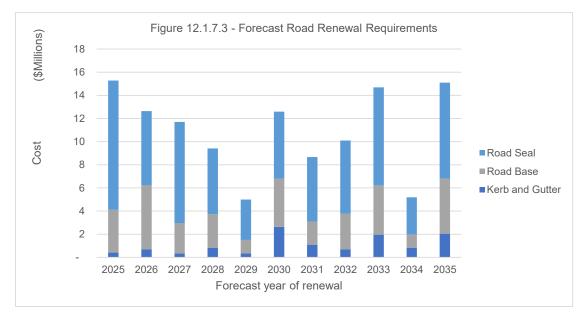
Our intention with road pavements is to extend the useful life of the components to the optimal renewal period that balances the longest service life against serviceability. In most cases, a run-to-fail scenario is not the preferred model as the serviceability of the road will be impacted. In practice, that may be observed as compounding surface defects, deformation and subsidence, loss of seal, and/or leachate from the base course visible at the surface.

Based on the current information relating to condition and forecast useful life, the following graph at Figure 12.1.7.3 provides an indication of the timing and cost to renew road assets over the next 10-years. The average annual investment per year over the 10-year period is \$10.95M. Note that this excludes sub-base as the useful life of this asset group needs to be reviewed. Analysis revealed that sub-base was triggering





renewal prior to the base on several roads. Including sub-base increases the annual renewal requirement by approximately \$19M per year, which is overstating the actual required works. It is expected that some roads may require renewal of sub-base. We are planning to invest in the order of \$14.6M per year over the 10-year period of the plan.



Further analysis of treatments specified over recent years is recommended to determine the most appropriate treatment of base and sub-base renewals. Our preferred method of treatment of base and sub-base is to improve the capacity of the existing material. Known as pavement stabilisation, this can be achieved through the addition of typically cement, lime, polymer, or bitumen foam to strengthen the existing granular material. Only in circumstances where the original road pavement is unable to be strengthened do we seek to remove the full depth and replace the material.

Where stabilisation is unlikely to be required to the full depth of the base, we may have a shorter life component (part to be stabilised) and a longer life component. To enable the assessment to be complete, geotechnical data on sampled base depths and treatments is required. This review is likely to result in an increase in useful life of base and sub-base assets and reduce annual depreciation expense.



12.1.6.4 Future investment plan – Roads

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	27,416,163	27,554,948	27,840,024	27,936,419	27,945,336	27,975,661	28,134,104	28,267,499	28,440,562	28,555,645	28,607,529
Required maintenance and operational works	8,043,879	8,094,379	8,255,919	8,313,559	8,318,115	8,335,472	8,429,438	8,508,426	8,611,133	8,679,172	8,709,420
Operating expenditure	35,460,042	35,649,327	36,095,943	36,249,978	36,263,451	36,311,133	36,563,542	36,775,925	37,051,695	37,234,817	37,316,949
Renewal works	-	-		-	-	-	-	-	-	-	-
Roads	16,292,000	23,275,000	18,619,144	15,311,900	14,204,375	15,360,000	15,360,000	15,360,000	15,360,000	15,360,000	15,360,000
Car Parks	715,000	=	=	-	-	870,000	870,000	870,000	870,000	870,000	870,000
Retaining Walls	3,120,000	-	-	-	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Upgrade works	-	70,000	3,285,000	2,895,000	1,080,000	-	-	-	-	-	-
Car Parks	-	=	=	-	-	-	-	=	-	-	=
Expansion	5,500,000	27,000,000	26,000,000	14,500,000	500,000	35,524,800	37,492,000	42,248,000	33,876,000	36,393,600	28,927,200
New Work	-	3,950,000	750,000	-	20,000,000	-	-	1	-	-	1
Roads	-	=	=	-	-	8,881,200	9,373,000	10,562,000	8,469,000	9,098,400	7,231,800
Car Parks	420,000	-	•	-	-	200,000	200,000	200,000	200,000	200,000	200,000
Capital expenditure	26,047,000	54,295,000	48,654,144	32,706,900	35,784,375	61,836,000	64,295,000	70,240,000	59,775,000	62,922,000	53,589,000
Totals	61,507,042	89,944,327	84,750,087	68,956,878	72,047,826	98,147,133	100,858,542	107,015,925	96,826,695	100,156,817	90,905,949
Estimated Required Renewals	16,206,551	13,408,985	12,414,688	9,989,685	5,303,662	13,359,306	9,202,784	10,715,136	15,584,329	5,509,222	16,018,648
Planned renewal as a % of estimated required	124%	174%	176%	182%	288%	129%	187%	161%	111%	313%	108%



12.1.7 Road Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
1.1	Segmentation	Review the current road segments to align intersections and mapping with the asset register	MISP	2026
1.2	Hierarchy	Undertake a validation exercise of the road hierarchy associated with roads to confirm accuracy.	MISP	2027
1.3	Useful life review	It is recommended that a change in approach to applying a sprayed seal at 10+10-year intervals be transitioned to a resheeting option be undertaken for non-rural roads. This will require an adjustment to remaining useful life and budgets to align changed approach.	MISP	2025
1.4	Climate Hazards	Identify roads that have been impacted by storm induced erosion and monitor following storm events	MISP	2024
1.5	Decommissionin g	Investigate the potential for road closures in areas of voluntary purchase scheme acquisitions.	MISP, MCO+P	2025
1.6	Proactive Maintenance	Continue development of the defect management system, including activities, prioritisation methodology, target response times, and work order's structure. Consider utilising the IPWEA A risk-based approach to managing road defects	MISP, MCW, MOSES	2025
1.7	Boat ramps	Consider realigning boat ramps with marine structures due to the similar legislative and hazard profile.	MISP	2026
1.8	Criticality rating	In addition to the critical road assets identified by the Local Emergency Management Committee, identify roads that provide direct access to emergency services and other critical services to determine the appropriate criticality rating.	MISP	2026
1.9	Review base and sub-base renewal treatments	Review the treatment type and depth of renewal of base and sub-base to determine if it is appropriate to recognise a short life and long-life component. Provide an estimate of the network where the base and sub-base have been replaced to full depth as part of the review.	MISP	2025
1.10	Prioritisation model	Develop a template prioritisation model for roads including a range of factors and constraints relating to levels of service, climate hazards, resilience, treatments, etc	MISP	2028
1.11	Review DCP	Review the current DCP controls and objectives, and associated development conditions of consent to ensure required transport infrastructure aligns with future renewal and maintenance capacity	MISP	2026
1.12	Standard Road Infrastructure	To support efficient design and continuous infrastructure improvements standard designs are to be prepared for all road infrastructure.	MISP	2027



12.2 Bridges

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Bridges includes a group of structures that provide an elevated platform above the ground surface designed to span natural and constructed obstacles such as watercourses, wetlands, ravines, roads, and railways. Council is responsible for bridges located across Wollongong that support a transport function for the movement of people, services, and utilities. We typically own bridges that support pedestrian, bicycle, and road vehicle transport. Council does not control bridges that support movement by the rail network; however, we do have some responsibility relating to road and pedestrian bridges that cross the rail corridor as managed under a specific interface agreement with the rail operators.

Utility networks may be supported by Council transport bridges to connect utilities (electricity, water and sewer, gas, and communications) across obstacles. Bridges that solely support these utilities, with no connection for the movement of people are typically owned and managed by the responsible utility provider.

The bridges group of assets includes a range of structures primarily to support movement of people and utilities including pedestrian and cycle bridges; ornamental bridges, road bridges; large culverts, boardwalks; viewing platforms; fishing platforms; and jetties.

The following bridges are not included as part of this asset management plan:

- Bridges owned by other organisations such as Transport for NSW (road and rail); utility providers; private rail operators.
- Bridges that are an integral part of a playground unit these are considered under the playground section of the asset management plan.
- Bridges within a building, such as skywalk, gangways and similar. These will form part of the building asset management plan.
- Weighbridges the primary purpose of these assets is to weigh vehicles, not for spanning obstacles. Weighbridges are considered part of the plant and fleet asset register.

12.2.1 Profile

Community Strategic Plan Goal: Goal 2: We have well planned, connected, and liveable places

Service: Transport Services

The Roads and Bridges service delivery stream provides the community with a network of bridges that are safe, functional, and support efficient and multi modal transport services. It is primarily guided by Council's Integrated Transport Strategy supporting document.

12.2.2 Strategic priorities

Transport services are guided and informed by the following strategic supporting documents:

- Draft Wollongong Integrated Transport Strategy (ITS)
- City of Wollongong Pedestrian Plan 2017-2021
- Wollongong Cycling Strategy 2030
- Wollongong City Centre Access and Movement Strategy 2013
- Keiraville Gwynneville Access and Movement Strategy 2020
- West Dapto Contributions Plan





• Wollongong City-Wide Development Contributions Plan

The draft Wollongong Integrated Transport Strategy identifies the following key strategic framework and priorities:

Vision - Wollongong is a liveable and green city where everyone has viable transport choices that provide connected journeys through Country that are safe, reliable, and accessible.

Guiding Principles:

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- Connecting to Country and Place.
- · Sustainability-focused.
- Multi-modal transport options for all.
- Integrated land use and transport decisions.
- · Work with the community for change.
- · Comfortable and convenient active travel

Goals – the strategy identifies a range of actions linked to achieving the following six goals:

- Goal 1 | Competitive Public Transport
- Goal 2 | Everyday needs within 15 minutes
- Goal 3 | A connection to Country and sense of place
- Goal 4 | Increased use of active modes
- Goal 5 | All ages and abilities can get around with ease
- Goal 6 | Sustainable transport options

The West Dapto Contribution Plan includes A total of 65 bridges (over watercourses), six rail crossings to support the road network, in addition to five bridges associated with shared paths.

Table 12.2.2 summarises the actions from the draft Integrated Transport Strategy and the West Dapto Contributions Plan with a relationship to bridges and an assessment of the direct impact:

Table 12.2.2 - Supporting Document Actions

Supporting Document	Action	Resource Impact		
Integrated Transport Strategy	Assess and upgrade bridges along M1 to support oversize and overweight loads to and from the Port of Port Kembla to stop	The M1 and supporting infrastructure are State Government assets. The investigation, planning and implementation costs rest with the NSW Government.		
	detouring.	The impact on Council is operational costs to participate as a stakeholder in any review.		
West Dapto Vision and Contribution Plan	A total of 65 bridges (over watercourses) and 6 rail crossings to support the road network.	The capital cost of most proposed bridges is funded through development contributions. The exceptions include Yallah Road, Marshall Mount Road, and the Marshall Mount Town Centre Bypass, which are 75.76%, 44.28% and 22.66% respectively funded through development contributions.		
		The ongoing costs for operations, maintenance and renewal will be funded through general funds.		



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West Dapto Vision and Contribution Plan	Five shared use path bridges that will provide whole of release area connectivity. Note, a sixth pedestrian bridge included in the West Dapto Vision 2018 is shown as PB6 at Figure 9. This bridge is not currently included in Schedule 3 but may be included in the future.	The capital cost of the proposed bridges is funded through development contributions. The ongoing costs for operations, maintenance and renewal will be funded through general funds.
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12.2.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Transport relating to bridge infrastructure, the strategic response, and the consequences of not funding the impact is summarised below in Table 12.2.2.1:

Table 12.2.2.1 - Future Impact and Strategic Response

Future Impacts	Strategic Response	Consequences of Not Funding
Continued urban expansion, including West Dapto has increased need for new roads and bridges. Continued funding of the renewal gap for the City's ageing road network.	The West Dapto vision and contribution plan articulate the strategy for provision and funding of bridge infrastructure to support urban expansion. Council routinely reviews the contribution plan to review assumptions, costs, and forecasts.	Functional access not available for the residential growth area during flood events. Safety risk at level crossings prevail. Congestion impacts remain during storm events and level crossing priority on the rail network.
Adapting to changes in availability / pricing of materials (bitumen and concrete).	Design of new structures to review appropriate materials for the location, including lifecycle costs.	Potential for increased lifecycle cost of bridge infrastructure.
State changes in transport planning / policy, moving to 15% public transport (adopted State Plan target) for Wollongong city centre from 7-8% currently.	Changes in the public transport network will need to be reviewed to determine impact on any bridge structure located on the route. Suitability of the bridge will need to be determined and adequacy for bus movements assessed.	Consequences are unknown at this point and difficult to forecast. The action may not have any impact on bridge assets or could result in a requirement to upgrade an asset. Council will continue to be an active stakeholder in NSW Government local public transport planning to identify impacts.
Increasing requirements of the Disability Discrimination Act.	Accessibility audit to be undertaken for bridge assets. A plan to be prepared address	Inability to provide equitable and inclusive access for people with mobility challenges.



12.2.2.2 Future Demand

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Increasing demand for street lighting	Areas of redevelopment are creating increased desire for pedestrian connections via routes that have little or no lighting.	Additional service provision demand beyond the immediate area of development.	Proactive review of staging plans and forecast lighting requirements required.	Street lighting program for expansion of the network.
Change in hierarchy of roads	As areas redevelop and traffic volumes increase, road hierarchy needs to be reassessed.	Higher order roads will increase demand for road signage and transport facilities to maintain efficient and safe road environment and potentially higher lighting levels.	Road hierarchy planned as part of West Dapto land release areas.	Part of the West Dapto Developer Contributions Plan for changes to the road network
Increased support for active transport and micro-mobility	Demand and supply of e-bikes and e- scooter trial in Wollongong	Dedicated lanes, traffic separators and safe crossing facility demand.	Review as part of the recommendations from the Wollongong Integrated Transport Strategy	To be developed
Improved quality of road signage	The development of technology towards vehicle road sign recognition increases the reliance on legible road signs.	Road sign locations and condition needs to be better understood.	New approach using vehicle mounted cameras to record inventory and update condition. Also identifies missing signs as the technology compares images to determine if there was a sign in place previously.	Trial of road sign artificial intelligence to collect inventory and monitor condition.
Accessibility	Demand for upgrade of existing assets to meet current access standards.	Replacement or modification of transport facilities.	Prioritisation of locations based on utilisation.	Upgrade program to be developed.
Increased demand for lower speed environments around schools and village and town centres	Through safe systems planning and approach lower speeds require road environments which support a lower speed rather than relying on signage only.	Additional traffic facilities required.	Standardise options for a 30km/h and 40km/h speed zone environment	Upgrade program to be developed.

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12.2.2.3 Bridge Provision

Bridges are considered as part of the transport facilities intended for wide community use daily with provision for a variety of activities. Road bridges share the traffic classification with the connecting road as a utilisation hierarchy. This hierarchy bridges assists in assessing the risk profile associated with each structure. Foot bridges, jetties and pontoons, boardwalks and ornamental bridges are generally considered or similar importance, with risk assessment informing relative priority. There are no bridges currently identified as heritage items.

12.2.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Bridges

Last comprehensive revaluation: 2022

Valuation Information: – Bridge infrastructure assets are recognised using the cost method, which equates to the current replacement cost of a modern equivalent asset. The cost to replace the asset (gross replacement cost) is to equal the amount that a market participant buyer of that asset would pay to acquire it.

Fair Value Hierarchy - the general valuation approach to determine the fair value of the bridge infrastructure inventory is to determine a unit rate based on square metres or an appropriate unit supported by market evidence (Level 2 input). Further inputs such as asset condition and useful life require a significant level of professional judgement and can impact significantly on the fair value. As such the level of valuation input for these assets was considered level 3.

Asset Count Average of Sum of **Sum of Current** Sum of Classification L3 Useful Life of Asset **Current Asset** Annual Carrying (Years) Cost Depreciation as at Value 30 June 2024 **Handrails** 75 76 1,001,497 12,778 736,576 **Substructure** 67 80 71,898,988 892,326 48,092,848 Superstructure 197 69 96,730,971 1,442,025 65,433,210 169,631,456 114,262,634 2,347,129

Table 12.2.3 - Bridge Asset Summary

12.2.3.1 Components and attributes

Bridges are recognised at component level depending on the complexity of the structure, including:

- Substructure
- Superstructure
- Bridge structure
- Handrails
- Cathodic Protection

The road and footpath surface across the span of the bridge is considered as part of the respective asset management plans. Bridge structures and cathodic protection assets are currently valued under superstructure; however it is intended to review componentisation as part of the improvement program.





12.2.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5. A review of the Transport Service identified that it is a critical service. The roads identified as critical are derived from the major transport routes in the local emergency management plan. The only road under Council control is Old Princes Highway from the Wollongong City Council boundary south of Waterfall through to Bulli Tops. This section of road does not have any defined bridges under Council control.

12.2.3.3 Operation and maintenance requirements

Routine inspections are part of our operational requirements for bridges and include:

- Level 1 inspections bi-annually (alternative years).
- Level 2 inspections on a 4-yearly basis
- Level 3 inspections on as required basis (identified in Level 2 inspections).
- Routine and minor maintenance as required based on Level 1 inspections.
- · Corrosion protection system inspection and certification.

Routine operations and maintenance activities cover all works in relation to the bridge structures that are required to be undertaken on a regular basis, for the ongoing operation of the structure. Actions include those listed below, to ensure bridges remain serviceable and meet the expected useful life:

- routine inspections
- expansion joints
- · removal of vegetation and debris
- waterproofing
- safety railing
- reflectors
- timber bridge maintenance
- repainting
- load limit signage and heavy vehicle route monitoring and approval
- cathodic protection

12.2.3.4 Depreciation and degradation curves

Bridge assets and component use a straight-line depreciation and a straight-line degradation profile.

12.2.4 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications will create changes in demand that influences our planning associated with bridge infrastructure as part of the enabling infrastructure and transport, as summarised in Table 12.2.4 below:





Table 12.2.4 – Future Demand Impact on Bridges

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	Areas of growth require new road and bridge networks to support development. Some existing road and bridge infrastructure require upgrade to support the changes.	The main area of growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the bridges required to support the growth and the funding contributions from development towards the recommended infrastructure.	The West Dapto contribution plan identifies the infrastructure and funding required to meet the demand. This plan integrates the contributions plan forecasts.
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may create additional demand and capacity issues for existing bridge infrastructure.	The draft Integrated Transport Strategy provides a strategic framework for traffic management across Wollongong.	Any identified need to upgrade capacity of bridge infrastructure is included in the new and upgrade plan.
Transport Planning changes	Increased mode shift to active and public transport modes	Increase use of public transport and active transport modes will require bridges with additional provision and load requirements.	The State Regional Transport Plan and Council Integrated Transport Plan identify mode shift targets.	Develop standards and hierarchy for bridge design to meet mode shift targets.

12.2.5 Roles and responsibilities

Service Manager: Manager Infrastructure Strategy and Planning

Role	Lifecycle	Function	Responsibility	Activities
Service Management	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery
	Operation	Service Operations	Manager Infrastructure Strategy and Planning	Act as customer liaison for service Provide website information and communications

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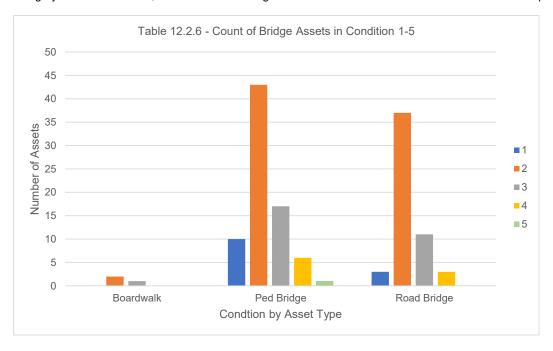
Role	Lifecycle	Function	Responsibility	Activities
	•		· ·	Initiate notifications for service
				interruptions Undertake functional assessment
				Monitor and manage service and
				asset utilisation
				Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast
	Planning & End of Life	Asset Acquisitions and	Manager Infrastructure Strategy and	Engage with stakeholder on acquisition and disposal plan
	Lind of Line	Disposals	Planning	Arrange relocation or transition of service
				Arrange establishment or termination of agreements (utilities)
				Complete condition and performance assessment
		Asset Planning	Manager Infrastructure Strategy and	Assess asset related legislative requirements
		Fiailing	Planning	Coordinate scope preparation
				Asset review
				Renewal planning
Asset	Planning	Asset Data	Manager Infrastructure Strategy and Planning	Administration of asset register Updates for capital improvements
management				Initiate asset disposal system process
				Prepare asset management plan
				Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	Revaluation
				Unit rates
				Estimates Monitor expenditure
			Discortion	Approval of project plan
		Project	Director Infrastructure +	Oversee business proposal
		Sponsor	Works	Capital expenditure review (OLG)
				Define the problem/need
				Options assessment
		Asset	Manager Infrastructure	Feasibility
		Concept	Strategy and	Lifecycle costing
Project Delivery			Planning	Funding strategy Business case/proposal/project plan
	Delivery			development
			Manager	Oversee project as part of program
		Program Management	Infrastructure	Responsible for managing overall
		Management	Strategy and Planning	program costs, risks, progress Development of asset scopes
			Mongress	Ensure design solutions align with
		Asset	Manager Project	strategy
		Design	Delivery	Options analysis
				Concepts



Role	Lifecycle	Function	Responsibility	Activities
				Design development
				Cost estimating
				Complete safety in design report
				Approvals process
				Cost estimate
				Value engineering
			M	Procurement strategy
		Asset	Manager Project	Contract management
	Deli		Delivery	Procurement
			Í	Project management
				Oversee project commissioning and handover
				Complete maintenance inspections
	Maintenance	Asset	Manager City	Work management triage and scheduling
Maintenance and		Maintenance	Works	Establish maintenance procedures Undertake maintenance works
Operation Management			Managar	
management	Operation	Asset Operations	Manager Infrastructure Strategy and Planning	Cathodic protection Naming

12.2.6 Performance

We monitor the performance of our bridge assets by condition – the actual physical and technical state of the asset, and customer satisfaction. Table 12.2.6 below provides a summary of the number of assets per category in condition 1 to 5, with condition 1 being excellent and 5 with several defects and renewal required.





12.2.6.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey does not specifically identify bridges as part of the facility or direct service questions. Bridges form part of the road and/or pathway network, so we use the results relating to road and pathway maintenance for an indication of community satisfaction. The results of the community survey as reported in section 7 indicate that road and footpath maintenance are an area of focus for council.

12.2.6.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Customer Leve	ls of Service			
Safety	Bridges are safe for use	Number of claims alleging injury or damage associated with condition of a bridge	Bridge condition not found to have contributed to injury or damage.	
Function	Bridges are fit for purpose	No restrictions that unreasonably limits usability of the bridge	Number of requests for exemption from restriction	
Serviceability	Bridges are available for use	Number of bridges in serviceable condition.	No "closed" bridges, except those identified for decommissioning	
Utilisation	Assets are being utilised by the community	Community survey		Utilisation of Bridge facilities is not included in the community survey
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey Direct Services – Internal Benchmark for Maintenance of local roads	No significant decrease in average satisfaction results to previous survey	The average across seven surveys is 2.9, and the rating for 2023 is consistent at 2.8. However there was a decrease from the 2021 result of 3.2 which is considered a significant decrease
Residents' Wish List	The community do not see this asset group or associated service as an area of focus for council over the next 4-years	Community survey internal benchmark – "In your view what are the three key areas you think Council should focus on over the next four years?"	Less than 10% increase on previous percentage	Roads and traffic as a group increased from 35% to 41% between 2021 and 2023. This is a 17% increase
Technical Leve	ls of Service			



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
	Inspection, testing and reporting	6-monthly inspections	100% compliance	Target achieved
Corrosion Protection Systems	Annual certificate of compliance	Annual test and submission of certificate	100% compliance	Target achieved
	Interference testing	Within 7 years of previous test	100% compliance	6-7 years
	Level 1 condition assessment	Bi-Annual	75% compliance	©
Condition	Level 2 condition assessment	4-yearly	75% compliance	
Inspection	Level 3 condition assessment	As required if identified in a level 1 or 2 inspection. Completed within 6 months.	100% compliance	
Expansion joint	Clean and inspect elastomeric joints	As required	75% compliance	
Load limit signage	Visual inspection	Annual inspection	100% compliance	
Waterproofing	Inspect with resurfacing works	As required	Waterproofing adequate to prevent accelerated deterioration	No known defects
Debris – substructure	Inspect and remove	With level 1 inspection and reactive	All significant debris removed	
Vegetation	Road bridge – deck and substructure	Lack of vegetation growing from deck or interfering with substructure of bridge	Removal with level 1 condition or within 4 weeks of report	Unknown
Event damage	Level 1 inspection	Within 2 weeks of incident	100% compliance	Target met
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Bridges with high maintenance costs identified for major maintenance program or renewal.	
Risk	Bridges are maintained within a tolerable risk profile.	Risk assessment of bridges to be undertaken.	All bridges managed in accordance with the infrastructure risk appetite statement	69
Performance	Asset management actions and funding allocation supports	Percentage of identified renewals funded		
i enomiance	long-term sustainability	Percentage of planned renewals completed		



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
		Percentage of identified proactive maintenance works completed		

12.2.6.3 Bridge Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact bridge infrastructure are summarised in Table 12.62.6.3 below:

Table 12.2.6.3 - Bridge Hazard Rating

Hazard	Risk Description Lik		Consequence	Risk
Fire (Bush/Grass)	Major fires in areas of bush or grasslands.	Likely	Major	Extreme
Flood (Flash)	Heavy rainfall causes excessive localised flooding with minimal warning time.	Likely	Major	Extreme
Severe Storm/Storm Surge	Severe storm with accompanying lightning, hail, damaging winds, and/or rain that causes severe damage and/or localised flooding (includes tornado and waterspout) and coastal erosion.	Likely	Major	Extreme
Major Structural Collapse	Failure of a major culvert or bridge structure with or without warning owing to structural failure or because of external/internal events or other hazards/incidents.	Rare	Major	High
Earthquake	Earthquake of significant strength (> Magnitude 7) that results in localised or widespread damage.	Rare	Major	High
Landslip / Mudflow / Rockfall	Landslip/mudflow/rockfall resulting in localised or widespread damage.	Likely	Moderate	High
Transport Accident (Road)	A major vehicle accident that disrupts one or more major transport routes that can result in risk to people trapped in traffic jams, restrict supply routes and/or protracted loss of access to or from the area.	Possible	Moderate	High
Transport Accident (Rail)	A major rail accident on the Illawarra line, particularly on the steep descent through the Illawarra Escarpment down to Wollongong (including the viaduct/tunnels), resulting in several fatalities, injuries and/or damage to properties along the rail corridor, restriction to supply routes and/or protracted loss of access to or from the area; possible environmental damage.	Possible	Moderate	High
Tsunami	A tsunami wave of magnitude that presents a risk to land and marine elements.	Rare	Major	High

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Hazard	Risk Description	Likelihood	Consequence	Risk
Utilities Failure*	Major failure of essential utility for unreasonable periods of time because of a natural or human-caused occurrence (>24 hours).	Rare	Major	High

^{*}Utility connected to a bridge crossing.

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any bridges impacted by the event.

12.2.6.4 Climate Hazards

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to bridges are flooding, bushfires, storms, and sea-level rise. All contemporary flood studies used to inform bridge design include climate risk factors associated with storm surges and sea level rise. The Australian Standards (AS 5100 Bridge Design suite) make provision for design of bridges to withstand forces associated with flooding and impact by storm debris. The standards also deal with design of the foundation and soil-supporting structures. A summary of the actions from the CCAP and relation to bridges is provided in Table 12.2.6.4 below.

Table 12.2.6.4 - Climate Hazards Impacting Bridges

Priority A	Priority Actions							
Hazard	Climate Change Adaptation Plan Action	Bridge Infrastructure Actions						
	Continue managing flood risk through floodplain risk management plans, incorporating climate predictions.	Review floodplain risk management study and plans for recommended work items on bridges.						
Flooding	Continue and monitor maintenance schedules to reduce the risk of drainage network blockages.	Bridges to be inspected in accordance with agreed levels of service to identify blockages. Levels of service to be based on the criticality of the drainage network.						
	Undertake community education to increase awareness of the dangers of floodwaters and precautions to minimise risks to people and property.	Education to include traversing bridges where the water level is approaching the soffit of the bridge.						
Bushfire	Review bushfire risk and emergency management plans for Council operational or leased buildings.	Inspect post event.						
	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure						
Storms	Identify Council's business continuity plans (BCPs) and review and updated as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any changes to critical assets will be listed in revisions of the asset management plan, and appropriate management plans developed.						
Sea- level rise	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure. The current Wollongong Coastal Zone Management Plan 2017 (CZMP) identifies						



Priority Actions							
Hazard	zard Climate Change Adaptation Plan Action Bridge Infrastructure A						
		Windang Bridge with an inundation risk. The NSW Government manages this bridge. The CZMP also suggests part of Lawrence Hargrave Drive (State Road) with risk and potentially elevating the road as a bridge.					
	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events.					

12.2.6.5 Legislative Requirements

- Electricity Supply (Corrosion Protection) Regulation 2020 (bridges corrosion protection systems).
- Holiday Parks (Long-term Casual Occupation) Act 2002
- Roads Act 1993
- Road Transport Act 2013
- Environmental Planning & Assessment Act 1979
- Catchment Management Authorities Act 2003
- Fisheries Management Act 1994
- Threatened Species Conservation Act 1995
- Native Vegetation Act 2003
- Noxious Weeds Act 1993



12.2.7 Future Investments

12.2.7.1 New and Upgrade Plans

The following table includes new and upgraded bridges that are listed in the West Dapto Vision and Development Contributions Plan. The bridges were identified as part of the demand analysis for transport associated with the population growth, and a review of the existing transport provision and developing a proposed transport model. The timing of the works is driven by the rate of development, with the contribution plan providing indicative timing. The data and references are compiled using the following tables from the West Dapto Development Contribution Plan: 11, 13, 16, and Schedule 3. The table includes bridges that are anticipated beyond the 10-year life of the plan; however, they are included for completeness.

Road Ref	Map Ref	Road Name	Link Description	Lane	Length (m)	Width (m)	Туре	Total cost including on cost	Indicative Timing
Bridges	over wat	ercourses for existing roads							
TR01	B15	West Dapto Road (2 x Mullet Creek tributaries)	Wyllie Road to Reddalls Road	2	10	14	Culvert		2020/21 - 2030/31
TR01	B16	West Dapto Road (2 x Mullet Creek tributaries)	Wyllie Road to Reddalls Road	2	10	14	Culvert		2020/21 - 2030/31
TR01	B17	West Dapto Road (between WD5-WD6)	Reddalls Road to Sheaffes Road	2	8	14	Culvert		2020/21 - 2030/31
TR01	B18	West Dapto Road (between WD6-WD7)	Reddalls Road to Sheaffes Road	2	34	14	super T over 20m upgrade	14,223,862	2020/21 - 2030/31
TR01	B19	West Dapto Road (tributary n/o Sheaffes Road)	Reddalls Road to Sheaffes Road	4	10	21	Culvert		2020/21 - 2030/31
TR01	B20	West Dapto Road (tributary n/o Darkes Road)	Sheaffes Road to Darkes Road	4	10	21	Culvert		2020/21 - 2030/31
TR01	B21	West Dapto Road (3 x Mullet Creek tributaries)	Darkes Road to Shone Avenue	2	15	14	super T over 20m upgrade		2020/21 - 2030/31

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Road Ref	Map Ref	Road Name	Link Description	Lane	Length (m)	Width (m)	Туре	Total cost including on cost	Indicative Timing
TR01	B22	West Dapto Road (3 x Mullet Creek tributaries)	Darkes Road to Shone Avenue	2	10	14	Culvert		2020/21 - 2030/31
TR01	B23	West Dapto Road (3 x Mullet Creek tributaries)	Darkes Road to Shone Avenue	4	22	21	super T over 20m upgrade		2020/21 - 2030/31
TR04	B10	Paynes Road	Sheaffes Rd to Paynes Rd (North)	2	10	14	Culvert		2026/27 - 2030/31
TR04	B27	Paynes Road	Paynes Road (west of Northcliffe Drive Extension)	2	6	14	Culvert	309,714	2026/27 - 2030/31
TR06	B29	Wongawilli Road	Shone Avenue to Smiths Lane	4	6	21	Culvert	174,214	2018/19 - 2020/21
TR07	B24	Darkes Road (Mullet Creek western tributary)	West Dapto Road to Princes Hwy	2	29	14	super T over 20m upgrade		2027/28 - 2031/32
TR07	B25	Darkes Road (Mullet Creek eastern tributary)	West Dapto Road to Princes Hwy	2	12	14	Culvert	7,614,507	2027/28 - 2031/32
TR07	B26	Darkes Road (Mullet Creek eastern tributary)	West Dapto Road to Princes Hwy	4	16	21	Culvert		2027/28 - 2031/32
TR08	B30	Shone Ave (Robins northern tributary)	West Dapto Road to Bong Bong Road	2	47	14	super T over 20m upgrade		2012/13 – 2026/27
TR08	B31	Shone Ave (Robins Creek southern tributary)	West Dapto Road to Bong Bong Road	2	63	14	plank up to 20m upgrade	7,358,339	2012/13 – 2026/27
TR10	B33	Bong Bong Road	Between Horsley & Dapto	2	33	14	super T over 20m upgrade	5,086,966	2035/36 - 2040/41
TR13	B45	Cleveland Road (2 x Mullet Creek tributaries)	Princes Hwy to Daisybank Drive	2	27	14	plank up to 20m upgrade		2013/14 - 2031/32
TR13	B46	Cleveland Road (2 x Mullet Creek tributaries)	Princes Hwy to Daisybank Drive	2	20	14	super T over 20m upgrade	11,512,755	2013/14 - 2031/32
TR13	B47	Cleveland Road (2 x Mullet Creek tributaries)	NR46 to Western Ring Road	2	6	14	Culvert		2013/14 - 2031/32

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Road Ref	Map Ref	Road Name	Link Description	Lane	Length (m)	Width (m)	Туре	Total cost including on cost	Indicative Timing
TR13	B48	Cleveland Road (2 x Mullet Creek tributaries)	NR46 to Western Ring Road	2	6	14	Culvert		2013/14 - 2031/32
TR13	B49	Cleveland Road (Mullet Creek tributary)	Western Ring Road to Avondale Road	2	6	14	Culvert		2013/14 - 2031/32
TR13	B50	Cleveland Road (Mullet Creek tributary)	Western Ring Road to Avondale Road	2	32	14	plank up to 20m upgrade		2013/14 - 2031/32
TR13	B51	Cleveland Road (Mullet Creek tributary)	Western Ring Road to Avondale Road	2	6	14	Culvert		2013/14 - 2031/32
TR14	B53	Avondale Road (Mullet Creek tributary)	Western Ring Road to NR49	2	10	14	plank up to 20m upgrade		2040/41 – 2050/51
TR14	B54	Avondale Road (Mullet Creek tributary)	Cleveland Road to Western Ring Road	2	17	14	plank up to 20m upgrade	3,862,002	2040/41 – 2050/51
TR16	B63	Yallah Road (3 x Duck Creek tributaries)	Marshall Mount Road to Princes Hwy	4	50	21	RMS Plank		2031/32 - 2035/36
TR16	B64	Yallah Road (3 x Duck Creek tributaries)	Marshall Mount Road to Princes Hwy	4	16	27	Culvert	6,314,424	2031/32 - 2035/36
TR17	B65	Marshall Mount Road	Yallah Road to LGA boundary	2	63	14	RMS Plank		2031/32 - 2055/56
TR17	B66	Marshall Mount Road (2 x Duck Creek tributaries)	Yallah Road to Huntley Road	2	125	14	RMS Plank	19,278,864	2031/32 - 2055/56
TR17	B67	Marshall Mount Road (2 x Duck Creek tributaries)	Yallah Road to Huntley Road	2	63	14	RMS Plank	10,270,004	2031/32 - 2055/56
Bridges	over wat	ercourses for new roads							
TR18	B1	Northcliffe Drive Extension	Wyllie Road to Northcliffe Drive (existing)	4	11.5	21	Culvert		2031/32 - 2035/36
TR18	B3	Northcliffe Drive Extension	Northcliffe Drive (existing) to Wyllie Road	4	19	21	Culvert	22 025 045	2031/32 - 2035/36
TR18	B4	Northcliffe Drive Extension (2 x tributaries)	Reddalls Road to Wyllie Road	4	24	21	plank up to 20m new	33,925,945	2031/32 - 2035/36



Road Ref	Map Ref	Road Name	Link Description	Lane	Length (m)	Width (m)	Туре	Total cost including on cost	Indicative Timing
TR18	B5	Northcliffe Drive Extension (2 x tributaries)	Reddalls Road to Wyllie Road	4	45	21	plank up to 20m new		2031/32 - 2035/36
TR18	В6	Northcliffe Drive Extension	Reddalls Road (east) to Reddalls Road (west)	4	11	21	Culvert		2031/32 - 2035/36
TR18	В7	Northcliffe Drive Extension (southern tributary)	Reddalls Road (west) to Paynes Road	4	127	21	super T over 20m new		2031/32 - 2035/36
TR18	B8	Northcliffe Drive Extension (northern tributary)	Reddalls Road (west) to Paynes Road	4	24	21	super T over 20m new		2031/32 - 2035/36
TR18	В9	Northcliffe Drive Extension (northern tributary)	Reddalls Road (west) to Paynes Road	4	45	21	super T over 20m new		2031/32 - 2035/36
TR19	B11	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road	2	6	14	Culvert		2025/26 - 2034/35
TR19	B12	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road (Bridge adjacent to ESA)	2	24	14	Culvert	2 002 567	2025/26 - 2034/35
TR19	B13	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road	2	96	14	Culvert	2,903,567	2025/26 - 2034/35
TR19	B14	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road	2	24	14	Culvert		2025/26 - 2034/35
TR20	B34	Iredell Road	Western Ring Road to Bong Bong Road	2	70	14	super T over 20m new	5,931,570	2025/26 - 2029/30
TR21	B41	New road (not in Plan) (Brooks Reach east)	Brooks Reach to Cleveland Road	2	100	14	super T over 20m new	8,508,620	2025/26 – 2030/31
TR23	B37	Fowlers Road Extension	Princes Hwy to Eastern Link Road	4	36	21	super T over 20m new	61,939,611	2016/17 - 2022/23
TR25	B56	Western Ring Road	Shone Avenue to Iredell Road	2	110	14	plank up to 20m new		2021/22 - 2050/51
TR25	B57	Western Ring Road	Iredell Road to Bong Bong Road	2	70	14	super T over 20m new	45,611,035	2021/22 - 2050/51
TR25	B58	Western Ring Road	Bong Bong Road to Cleveland Road (Stockland Stage 3)	2	68.4	14	super T over 20m new		2021/22 - 2050/51

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Road Ref	Map Ref	Road Name	Link Description	Lane	Length (m)	Width (m)	Туре	Total cost including on cost	Indicative Timing
TR25	B59	Western Ring Road	Avondale Road to Cleveland Road	2	33	14	super T over 20m new		2021/22 - 2050/51
TR25	B60	Western Ring Road	Avondale Road to Cleveland Road	2	65	14	super T over 20m new		2021/22 - 2050/51
TR25	B61	Western Ring Road	Avondale Road to Marshall Mount Road	4	63	21	RMS Plank		2021/22 - 2050/51
TR25	B62	Western Ring Road	Avondale Road to Marshall Mount Road	5	75	21	RMS Plank		2021/22 - 2050/51
TR26	B42	Brooks Reach to Huntley Link	Brooks Reach to Cleveland Road	4	70	21	super T over 20m new		2035/36 - 2055/56
TR26	B43	Brooks Reach to Huntley Link	Cleveland Road to Avondale Road	2	25	14	plank up to 20m new	13,773,330	2035/36 - 2055/56
TR26	B44	Brooks Reach to Huntley Link	Cleveland Road to Avondale Road	2	70	14	super T over 20m new		2035/36 - 2055/56
TR27	B39	Eastern Link Road (Daisybank Drive)	Fairwater Dr to Cleveland Road	2	6	14	plank up to 20m new		2046/47 - 2050/51
TR27	B40	Eastern Link Road	Avondale Road to Cleveland Road	2	24	14	super T over 20m new	2,712,122	2046/47 - 2050/51
TR28	B55	Eastern Spine Road	Avondale Rd to Western Ring Road	2	55	14	super T over 20m new	4,679,741	2046/47 - 2050/51
TR29	B68	Marshall Mount Town Centre Bypass	Marshall Mount Road to Yallah Road	2	12	44	Culvert		2035/36 - 2040/41
TR29	B69	Marshall Mount Town Centre Bypass	Marshall Mount Road to Yallah Road	2	45	14	RMS Plank	3,709,773	2035/36 - 2040/41
Rail cros	ssings								
TR02	BBRC	Bong Bong Road	Eastern Link Road to Station Street	2	N/A	N/A	Level crossing upgrade	-	2010/11 – 2031/32
TR07	DRC	Darkes Road	West Dapto Road to Princes Hwy	3	N/A	N/A	Level crossing upgrade	9,137,408	2027/28 - 2031/32

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Road Ref	Map Ref	Road Name	Link Description	Lane	Length (m)	Width (m)	Туре	Total cost including on cost	Indicative Timing
TR09	B32	Bong Bong Road (switchback bridge over rail line)	Eastern Link Road to Station Street	2	16	14	Rail three	43,046,632	2045/46 - 2050/51
TR14	AVRC	Avondale Road	Eastern Link Road to Princes Hwy	N/ A	N/A	N/A	Level crossing upgrade	3,862,002	2040/41 – 2050/51
TR15	B52	Huntley Road (rail bridge)	Princes Highway to Marshall Mount Road	4	55	21	Rail one	10,972,895	2035/36 - 2040/41
TR23	B36	Fowlers Road Extension (rail bridge)	Princes Hwy to Eastern Link Road		197	21	super T over 20m new	61,939,611	2016/17 - 2022/23
Transpo	Transport – Active transport								
TR36	PB1 to PB5	Shared use path bridge crossings	Throughout Stages 1 - 5				5 Bridges	1,636,569	2023/24 – 2059/60



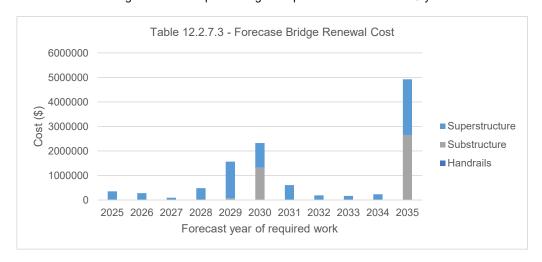
12.2.7.2 Decommissioning and Disposal Planning

Where we identify that bridges are no longer meeting the required level of service, we may look at decommissioning the structure. Where possible, we look for alternate routes to limit the use of bridges as they are costly to construct and maintain; and have a higher level of risk due to the introduction of an elevated structure.

We are currently monitoring some boardwalk structures with advanced deterioration. It is likely that the structures will need to be decommissioned during the period of this plan. These locations will be subject of community engagement. Unforeseen decommissioning may result from impacts of natural disaster.

12.2.7.3 Renewal Works

Based on the current information relating to condition and forecast useful life, the Table 12.2.7.3 provides an indication of the timing and cost to replace bridge components over the next 10-years.



Our current information suggests that the following bridges will be a focus for investigation of remedial and renewal works in the indicated years.

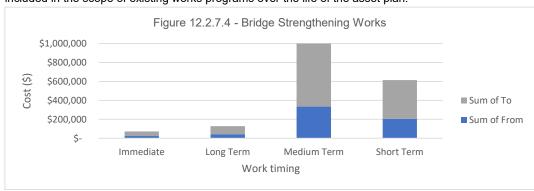
Year	Bridge Description	Suburb
2025	Old Coast Road Bridge	Stanwell Park
	Pioneer Beach Estate Footbridge	Woonona
	Valley Drive Lower Footbridge	Figtree
	Valley Drive Upper Footbridge	Figtree
2026	Helen St West Footbridge	Mount Ousley
	Botanic Gardens Pedestrian Bridge (Kawasaki Bridge)	Keiraville
2027	Baden Powell Park Footbridge	Tarrawanna
2028	Bellambi Lagoon Carpark Footbridge	East Corrimal
	Dalton Park North Footbridge	Fairy Meadow
	Fred Finch Park P1 South Cycle bridge	Berkeley
	Harry Graham Park Footbridge	Figtree



Year	Bridge Description	Suburb
	John Parker Reserve Footbridge	Russell Vale
	Lawrence Hargrave Dr Coalcliff Footbridge	Coalcliff
	TAFE UNI Cycle bridge	North Wollongong
2029	Memorial Park Bridge	Corrimal
	Hooka Point Park Footbridge	Berkeley
	Primbee Foreshore Footbridge	Primbee
	Windang Peninsula Heritage Park Footbridge	Windang
2030	Angels Bridge	Corrimal
	Bulli Beach Caravan Park Bridge	Bulli
	Botanic Gardens Pedestrian Bridge (1st bridge near front entry)	Keiraville
	Botanic Gardens Pedestrian Bridge (1st Bridge N-W of Kawasaki Bridge)	Keiraville
	Botanic Gardens Pedestrian Bridge (2nd bridge in Rainforest)	Keiraville
2031	Transport-Bridges - Superstructure - Bridge 0593 - Hooka Point Park Jetty	Berkeley
2032	Helen St East Footbridge	Mount Ousley
	Hicks St Footbridge	Russell Vale
	Meads Ave Reserve West Footbridge	Tarrawanna
2033	Botanic Gardens Pedestrian Bridge (2nd bridge N-W of Kawasaki Bridge [in Rainforest])	Keiraville
2034	Coalcliff Beach Reserve Bridge	Coalcliff
2035	Cordeaux Rd Bushells Hill Bridge	Mount Kembla
	Princes Hwy Cabbage Tree Creek Bridge	Fairy Meadow

12.2.7.4 Infrastructure Resilience

Existing structures are typically designed to the standards applicable at the time of construction. The National Association of Australian State Road Authority published bridge design specifications from 1953 to 1976, this was replaced with Austroads Bridge Design Code and subsequently converted to the Australian Standards (HB 77) in 1996 and redesignated to *AS 5100* in 2004. As part of our routine bridge inspection program, we assess and identify recommendations for strengthening and repairs to elements that affect the resilience of the bridge to hazards. Below is a summary of the identified works that will be prioritised for implementation and indication of the expected cost bracket for the work. These works will be prioritised and included in the scope of existing works programs over the life of the asset plan.



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12.2.7.5 Future investment plan – Bridges

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	2,347,129	2,347,129	2,347,129	2,347,476	2,350,390	2,350,529	2,370,245	2,424,032	2,630,416	3,030,211	3,428,121
Estimated required Maintenance and Operating works	845,695	845,695	845,820	846,870	846,920	854,024	873,404	947,766	1,091,816	1,235,188	1,322,349
Operating expenditure	3,192,824	3,192,824	3,192,949	3,194,346	3,197,310	3,204,553	3,243,649	3,371,798	3,722,232	4,265,398	4,750,470
Renewal works	895,000	3,005,000	2,515,000	1,400,000	600,000	2,800,000	730,000	300,000	202,000	300,000	5,625,000
Upgrade works	-	80,000	1,380,000	2,010,000	1,000,000	-	-	-	-	-	-
Expansion works	-	-	-	-	-	-	-	-	-	-	-
New works	-	-	-	-	25,000	25,000	250,000	227,000	300,000	280,000	-
Capital expenditure	895,000	3,085,000	3,895,000	3,410,000	1,625,000	2,825,000	980,000	527,000	502,000	580,000	5,625,000
Totals	4,087,824	6,277,824	7,087,949	6,604,346	4,822,310	6,029,553	4,223,649	3,898,798	4,224,232	4,845,398	10,375,470
Estimated Required Renewals	895,000	3,085,000	3,895,000	3,410,000	1,886,822	2,802,682	733,279	225,441	198,102	281,914	5,934,937
Planned renewal as a % of estimated required	100%	100%	100%	100%	85%	100%	100%	133%	102%	106%	95%



12.2.7.6 West Dapto

The following bridges are identified in the West Dapto development contributions plan with timing based on current projections of the rate of development. The timing below is indicative based on current projections. We will continue to monitor the actual rates against forecast to review and adjust the timing of infrastructure delivery to input into the IDP as appropriate.

Road Ref	Map Ref		
		Road Name	Link Description
Bridges	over water	courses for existing roads	
		Hayes Ln Bridge Detailed Design	
TR01	B15	West Dapto Road (2 x Mullet Creek tributaries)	Wyllie Road to Reddalls Road
TR01	B16	West Dapto Road (2 x Mullet Creek tributaries)	Wyllie Road to Reddalls Road
TR01	B17	West Dapto Road (between WD5-WD6)	Reddalls Road to Sheaffes Road
TR01	B18	West Dapto Road (between WD6-WD7)	Reddalls Road to Sheaffes Road
TR01	B19	West Dapto Road (tributary n/o Sheaffes Road)	Reddalls Road to Sheaffes Road
TR01	B20	West Dapto Road (tributary n/o Darkes Road)	Sheaffes Road to Darkes Road
TR01	B21	West Dapto Road (3 x Mullet Creek tributaries)	Darkes Road to Shone Avenue
TR01	B22	West Dapto Road (3 x Mullet Creek tributaries)	Darkes Road to Shone Avenue
TR01	B23	West Dapto Road (3 x Mullet Creek tributaries)	Darkes Road to Shone Avenue
TR04	B10	Paynes Road	Sheaffes Rd to Paynes Rd (North)
TR04	B27	Paynes Road	Paynes Road (west of Northcliffe Drive Extension)
TR06	B29	Wongawilli Road	Shone Avenue to Smiths Lane
TR07	B24	Darkes Road (Mullet Creek western tributary)	West Dapto Road to Princes Hwy
TR07	B25	Darkes Road (Mullet Creek eastern tributary)	West Dapto Road to Princes Hwy
TR07	B26	Darkes Road (Mullet Creek eastern tributary)	West Dapto Road to Princes Hwy
TR08	B30	Shone Ave (Robins northern tributary)	West Dapto Road to Bong Bong Road
TR08	B31	Shone Ave (Robins Creek southern tributary)	West Dapto Road to Bong Bong Road
TR13	B45	Cleveland Road (2 x Mullet Creek tributaries)	Princes Hwy to Daisybank Drive
TR13	B46	Cleveland Road (2 x Mullet Creek tributaries)	Princes Hwy to Daisybank Drive
TR13	B47	Cleveland Road (2 x Mullet Creek tributaries)	NR46 to Western Ring Road
TR13	B48	Cleveland Road (2 x Mullet Creek tributaries)	NR46 to Western Ring Road
TR13	B49	Cleveland Road (Mullet Creek tributary)	Western Ring Road to Avondale Road
TR13	B50	Cleveland Road (Mullet Creek tributary)	Western Ring Road to Avondale Road
TR13	B51	Cleveland Road (Mullet Creek tributary)	Western Ring Road to Avondale Road
TR16	B63	Yallah Road (3 x Duck Creek tributaries)	Marshall Mount Road to Princes Hwy
TR16	B64	Yallah Road (3 x Duck Creek tributaries)	Marshall Mount Road to Princes Hwy
Bridges o	over water	courses for new roads	
TR18	B1	Northcliffe Drive Extension	Wyllie Road to Northcliffe Drive (existing)
TR18	B3	Northcliffe Drive Extension	Northcliffe Drive (existing) to Wyllie Road
TR18	B4	Northcliffe Drive Extension (2 x tributaries)	Reddalls Road to Wyllie Road
TR18	B5	Northcliffe Drive Extension (2 x tributaries)	Reddalls Road to Wyllie Road
TR18	B6	Northcliffe Drive Extension	Reddalls Road (east) to Reddalls Road (west)
TR18	B7	Northcliffe Drive Extension (southern tributary)	Reddalls Road (west) to Paynes Road
TR18	B8	Northcliffe Drive Extension (northern tributary)	Reddalls Road (west) to Paynes Road
TR18	B9	Northcliffe Drive Extension (northern tributary)	Reddalls Road (west) to Paynes Road



Road Ref	Map Ref		
		Road Name	Link Description
TR19	B11	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road
TR19	B12	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road (Bridge adjacent to ESA)
TR19	B13	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road
TR19	B14	Northcliffe Drive Extension	Sheaffes Road to West Dapto Road
TR20	B34	Iredell Road	Western Ring Road to Bong Bong Road
TR21	B41	New road (not in Plan) (Brooks Reach east)	Brooks Reach to Cleveland Road
Rail cros	sings		
TR07	DRC	Darkes Road	West Dapto Road to Princes Hwy

12.2.8 Bridge Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

ltem	Issue	Description	Responsible	Timing
2.1	Componentisation	The current description of bridges should be reviewed to identify components with differing useful life	MISP	2025
2.2	Material description The maintenance and renewal activities vary according to the construction material of the component. The material type needs to be identified to ensure the appropriate maintenance activities are scheduled.		MISP	2025
2.3	Hierarchy	Investigate the applicability of a hierarchy associated with footbridges, jetties, and boardwalks.	MISP	2026
2.4	Useful life review	The design life of several bridges in the asset group is 100 years. The useful is identified at 80 years. The useful life should be reviewed to determine if 100 years (plus) is appropriate.	MISP	2025
2.5	Constraint hierarchy protocol	Current floodplain and stormwater DCP requirements can trigger embellishment in the design and trigger the need increased construction costs and whole of life costs.	MISP	2026



12.3 Transport Facilities including Street Lighting

Transport facilities and street lighting provide our community with a safer and efficient road network through managing traffic with a range of traffic measures and treatments.

Transport facilities includes the delivery and maintenance of signage and line marking; roundabouts; pedestrian refuges; medians, blisters, and splitter islands; raised thresholds and speed humps; parking and bus bays; intersection treatments; and similar devices.

The plan excludes the lifecycle cost for traffic signals. In New South Wales, all traffic signals are owned and operated by Transport for NSW (TfNSW), including those on roads operated by Council. Council will typically need to fund the cost of works where it seeks to initiate the installation of a new traffic signal, or upgrade and existing traffic signal subject to TfNSW approval. In this scenario, Council will recognise the cost of the works as a future investment and handover the ownership and control of the asset to TfNSW on completion.

Regulatory signs and linemarking form an important part of managing traffic and parking efficiency and safety. The cost of individual regulatory sign is typically well below the cost at which we would recognise and asset, however we have taken the approach of grouping the network of signs as one asset. This enables us to better plan for the maintenance and proactive replacement of signs over the expected life of the asset. Linemarking is normally treated as a non-financial asset without a capital value. Existing linemarking is monitored for condition on a routine basis and works undertaken as an operational expense. We are trailing the use of camera-based inspections as part of our Intelligent Defect Monitoring project to improve the rate of inspections on linemarking.

Street lighting supports and improves the safe transportation of people at times when natural light levels are insufficient. Street lighting is typically within the road corridor, however, may include some spaces adjacent to open space and public domains where the movement of people is a primary function. Lighting is primarily for the benefit of pedestrian safety to illuminate the space between eye level and the ground to enable identification of hazards and pathways for safe walking and to enable motorists to see pedestrians within and adjacent to the road corridor.

Street lighting is not a requirement for all roads as vehicles use headlights to illuminate the roadway. This is why freeways and other main roads where pedestrians are not permitted rarely have street lighting. These roads typically only use street lighting at junctions and other key point on the road network to identify a change in road geometry or hazards.

Most street lighting is owned and operated by energy network suppliers, Endeavour Energy in our region. The primary service model for street lighting has Council as the customer and Endeavour Energy as the provider. The basis for this arrangement is that Council provides a transport service and lighting is provided to support this service. Council's role is to determine the level of lighting required and fund the installation, depreciation, maintenance, and energy usage costs. The costs of these services are determined by the Endeavour Energy and monitored by the Independent Pricing and Regulatory Tribunal. The street lighting provided under this model is not included in Council's asset register as we do not own or have control of the street lighting assets. However, we recognise the operational expenditure (energy, maintenance costs, replacements, and additions) and any subsidies from Transport for NSW towards street lighting on State Roads in this asset management plan.

In addition to street lighting owned and operated by Endeavour Energy, Council has a small number of streetlights operated on privately metered arrangements. Under this scenario, Council owns and controls the streetlights and as a result, they are recognised as Council asset. This has typically been done where lighting selected is outside of the range offered by Endeavour Energy. These poles and lights are included in this section of the plan.



General open space and sport field lighting is a specific category of light with the primary purpose of supporting open space and recreation activities. This category of light is included in the Open Space section of the asset management plan.

12.3.1 Profile

Community Strategic Plan Goal: Goal 2: We have well planned, connected, and liveable places

Service: Transport Service

Transport facilities including Street Lighting is one of six delivery streams that contribute to the Transport Service. The transport facilities delivery stream provides implementation and maintenance of signage, lighting, and transport facilities across the Local Government Area to allow safe, efficient, and effective transport. The service includes:

- · Maintenance of existing transport facilities
- Plan and manage street light coverage.
- · Oversee streetlights in new developments.
- Plan and install new transport facilities in partnership with Transport for NSW.

12.3.2 Strategic priorities

The transport facilities delivery stream is guided by our Transport Supporting Documents. Transport services are guided and informed by the following strategic supporting documents:

- Draft Wollongong Integrated Transport Strategy (ITS)
- City of Wollongong Pedestrian Plan 2017-2021
- Wollongong Cycling Strategy 2030
- Wollongong City Centre Access and Movement Strategy 2013
- Keiraville Gwynneville Access and Movement Strategy 2020
- West Dapto Contributions Plan
- Wollongong City-Wide Development Contributions Plan

As the overarching strategy that informs The Wollongong Integrated Transport Strategy identifies the following key strategic framework and priorities:

Vision - Wollongong is a liveable and green city where everyone has viable transport choices that provide connected journeys through Country that are safe, reliable, and accessible.

Guiding Principles:

- Connecting to Country and Place.
- Sustainability-focused.
- Multi-modal transport options for all.
- Integrated land use and transport decisions.
- · Work with the community for change.
- Comfortable and convenient active travel





Goals – the strategy identifies a range of actions linked to achieving the following six goals:

- Goal 1 | Competitive Public Transport
- Goal 2 | Everyday needs within 15 minutes
- Goal 3 | A connection to Country and sense of place
- Goal 4 | Increased use of active modes
- Goal 5 | All ages and abilities can get around with ease
- Goal 6 | Sustainable transport options

Table 12.3.2 below summarises the actions from the strategy with a relationship to transport facilities and street lighting:

Table 12.3.2 - Supporting Document Actions

Strategy & Reference	Action	Resource Impact		
ITS – 03	Design and implement on-road measures to prioritise public transport such as dedicated bus traffic light signalling, queue jumps and bus lanes on key transport corridors.	Council is identified as a support. Funding will need to be considered for any actions relating to roads where Council is the roads authority		
ITS – 13	Develop a walking plan to provide high- quality pedestrian routes in town centres that are co-located with train stations: Stanwell Park, Coledale, Austinmer, Thirroul, Bulli, Woonona, Corrimal, Fairy Meadow, Coniston, Port Kembla, Unanderra, and Dapto. The plans to consider lighting, crossings, and shade/shelter.	Outcome of the plan may require additions to the 10-year plan for lighting and pedestrian transport facilities.		
ITS-16	Implement a car share trial including a space allocation policy and permit scheme.	Minor impact on allocation of signage, and potential management system.		
ITS-23	Implement 30 km/h speed limits within school zones and in town centres.	Operational costs associated with preparing the traffic assessment and application process. May require some capital expenditure to implement traffic calming to complement the speed zone change.		
ITS-24	Ensure all new and renewed intersections within 500m of a train station or school prioritise pedestrians through options like continuous footpaths, raised "wombat" crossings and signals.	Allocation of additional assets to meet the change in standard within 500m of train stations.		
ITS-25	Traffic signals to have late/start or red arrow hold for parallel pedestrian movements.	Funding required to modify signals located on local roads, however as the asset is owned by the NSW Government, the cost would be operational.		
ITS-32	All town centre traffic signals to have pedestrian and bicycle priority and low cycle times to promote walking and bike riding.	Funding required to modify signals located on local roads, however as the asset is owned by the NSW Government, the cost would be operational.		

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12.3.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Transport facilities, the strategic response, and the consequences of not funding the impact is summarised below in Table 12.3.2.2:

Table 12.3.2.2 - Future Impacts and Strategic Response

Future Impacts	Strategic Response	Consequences of Not Funding
Service demands may increase with population growth, new and upgraded roads and existing assets require renewal.	Densification and growth are likely to increase demand for transport facilities as the number of road users increase. Expect demand increase for traffic calming and pedestrian facilities.	Difficulty in meeting the vision of safe, reliable, and accessible transport network.
Industry trends towards energy efficient street lighting.	Changeover of remaining lighting stock to LED technology will require additional funding for up-front costs. The lifecycle costs are typically reduced through lower on-going energy usage, longer service life and reduces maintenance requirements.	Higher energy usage. Challenges meeting net-zero targets. Higher life-cycle costs for lighting, with increasing risk as energy prices rise.
Changes to NSW Government Transport strategies, funding programs and priorities. Changes in NSW Government delivery of infrastructure and services		
Disruptive Technology including driverless cars, ride sharing.	Likely to increase the demand for maintaining a higher condition standard for road linemarking and signage.	In ability for technology to read the local road network.
Higher priority towards Crime Prevention Through Environmental Design on path networks.	Ensure key precincts and transport networks have sufficient and appropriate lighting.	Reduced activity in precincts and transport networks

12.3.2.2 Traffic Facility Provision

Transport facilities include a range of asset types and lighting to support a safe, reliable, and accessible transport network. Decisions to provide or modify assets under this group are led by traffic assessment and studies. Traffic facility devices assist in the regulation of traffic and are largely covered by a legislative framework. The oversight of decisions to support the implementation of transport facilities is overseen by the City of Wollongong Traffic Committee (WTC). This is a technical committee that operates under the authority conferred to Council by the NSW Government under the Transport Administration Act 1988, and in accordance with the powers delegated to Council by the Road Transport Act 2013 and the Roads Act 1993. Reviews are based on technical merit and design standards, with decision of the WTC published on Council's website.

Traffic facility provision is primarily guided by Austroads Guide to Traffic Management series, Transport for NSW technical directions, industry guides and emerging traffic and transport research. The need and priority are determined through assessment and study of the existing and forecast traffic demand. Council maintains a request list for proposals that are supported by the WTC and works are planned based on priority.



Street lighting provision is determined following a lighting assessment conducted in accordance with the provisions of the Australian Standard AS1158 series of standards. Guides for general spacing of street lighting to meet the relevant lighting categories are based on operational knowledge and advice of subject matter experts from Council, Endeavour Energy, and lighting suppliers.

12.3.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Roads

Valuation Information: Valuation Technique – Infrastructure assets are recognised using the cost method, which equates to the current replacement cost of a modern equivalent asset.

Asset Class	Asset	No*	Indicative Useful Life	Carrying Value	Annual Depreciation	Current Asset Cost
Plan	Classification		(Years)		@ 30 June 202	4
	Blister	566	76	8,260,422	129,466	11,205,691
	Median	609	78	41,670,056	819,242	73,971,119
	Pedestrian Island	291	75	3,560,795	65,236	5,044,840
Transport	Raised crossing	35	45	1,198,440	45,444	2,200,255
facilities	Roundabout	153	77	15,264,261	276,957	21,022,852
	Speedhump	156	42	2,872,249	129,519	5,854,342
	Traffic separators	19^	80	419,123	4,291	392,430
	Subtotal	1829	73	73,245,346	1,470,155	119,691,529
Street	Road Signs	4*	26	568,606	194,308	4,415,423
furniture	Street Lighting	23 35		2,819,605	684,612	3,504,217
	Subtotal	27		3,388,211	878,920	7,919,640
	Total			76,633,557	2,349,075	127,611,169

[^]Traffic separators - indicates the number of locations, not devices

12.3.3.1 Components and attributes

The traffic facility assets are currently recorded as single assets on the year of acquisition.

12.3.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.4.4. A review of the Transport Service identified that it provides a critical service, however there are no related assets within the transport facilities and street lighting group of assets.

^{*}Road signs are primarily recognised as a single grouped asset.



12.3.3.3 Operation and maintenance requirements

Traffic facility assets require the following operation and maintenance activities:

- routine inspections.
- · reactive maintenance.
- proactive maintenance of landscaping within transport facilities.

We are investigating the use of Artificial Intelligence (AI) with machine learning to undertake proactive inspections of road signage. The technology uses vehicle mounted cameras and similar technology to facial recognition to record and analyse signs as a vehicle drives by. This technology has been trialled in Australia and will piggy-back our AI analysis of road surface condition monitoring. The intention is to link the defect identification with work management to improve efficiency and performance of the signs and linemarking assets.

Council funds the operational inspections, proactive and reactive maintenance of street lighting operated by Endeavour Energy as part of the annual tariff.

12.3.3.4 Depreciation and degradation curves

Traffic facility assets use a straight-line depreciation and degradation curves.

12.3.4 Roles and responsibilities

Transport facilities

Service Manager: Manager Infrastructure Strategy and Planning

Role	Lifecycle	Function	Responsible	Activities
	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements (Service Manager) Establish customer levels of service Determine asset requirements for service delivery
Service Management	Operation	Service Operations (except lines and signs)	Manager Infrastructure Strategy and Planning	Act as customer liaison for service Provide information and communications to customers Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Infrastructure Strategy and Planning	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan



Role	Lifecycle	Function	Responsible	Activities
				Arrange or transition of service and data migration Arrange establishment or termination of agreements
		Asset Planning	Manager Infrastructure Strategy and Planning	Complete performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal/upgrade planning
Asset management	Planning	Asset Data	Manager Infrastructure Strategy and Planning	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	Revaluation Unit rates Estimates Monitor expenditure
	Delivery	Project Sponsor	Director Infrastructure + Works	Capital expenditure review (OLG) Approval project governance framework Approve and monitor project plan
		Asset Concept	Manager Infrastructure Strategy and Planning	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
Project Delivery		Program Management	Manager Infrastructure Strategy and Planning	Oversee project as part of program Responsible for managing overall program costs, risks, progress
Delivery		Asset Design	Manager Project Delivery	Ensure design solutions align with strategy Options analysis Proof of concepts Cost estimating Approvals process
		Asset Delivery	Manager Project Delivery Manager City Works	Procurement strategy Contract management Project management User acceptance testing Oversee project commissioning and handover
Maintenance and	Maintenance	Asset Maintenance	Manager City Works	Complete maintenance inspections and testing Customer request triage and scheduling



Role	Lifecycle	Function	Responsible	Activities
Operation Management				Establish maintenance activity protocols and procedures
				Work order scheduling
				Undertake maintenance requests
				Complete maintenance inspections and testing
		Asset	M	Customer request triage and scheduling
		Maintenance – Lines	Manager City Works	Establish maintenance protocols and procedures
				Work order scheduling
				Undertake maintenance requests
				Complete maintenance inspections and testing
		Asset	NA	Customer request triage and scheduling
		Maintenance – Signs	Manager City Works	Establish maintenance protocols and procedures
				Work order scheduling
				Undertake maintenance requests
	Operation	Asset Operations	Manager Infrastructure Strategy and Planning	Utility management Compliance audits

Public Lighting

Service Manager: Manager Project Delivery

Role		Function	Responsible	Activities
	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements (Service Manager) Establish customer levels of service Determine asset requirements for service delivery
Service Management	Operation	Service Operations	Manager Project Delivery	Act as customer liaison for service Provide information and communications to customers Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Project Delivery	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan

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Role		Function	Responsible	Activities
				Arrange or transition of service and data migration
				Arrange establishment or termination of
				agreements
				Complete performance assessment
			Manager	Assess asset related legislative requirements
		Asset Planning	Project	Coordinate scope preparation
			Delivery	Asset review
				Renewal/upgrade planning
				Administration of asset register
Asset management	Planning		Manager Infrastructure	Updates for capital improvements
a.i.a.ga.i.a.ii		Asset Data	Strategy and	Initiate asset disposal system process
			Planning	Prepare asset management plan
				Coordinate asset reporting data
		Asset	Manager	Revaluation Unit rates
		Asset Financials	Infrastructure Strategy and Planning	Estimates
				Monitor expenditure
		5	Director	Capital expenditure review (OLG)
		Project Sponsor	Infrastructure	Approval project governance framework
		openioon .	+ Works	Approve and monitor project plan
		Asset Concept	Manager Infrastructure Strategy and Planning	Define the problem/need
				Options assessment
				Feasibility Lifecycle costing
				Funding strategy
				Business case/proposal
		-	Manager	Oversee project as part of program
Project	Delivery	Program Management	Project	Responsible for managing overall program
Delivery	Delivery	J	Delivery	costs, risks, progress
				Ensure design solutions align with strategy
		Asset	Manager Project	Options analysis Proof of concepts
		Design	Delivery	Cost estimating
				Approvals process
				Procurement strategy
			Manager	Contract management
		Asset	Manager Project	Project management
		Delivery	Delivery	User acceptance testing
				Oversee project commissioning and handover
		Asset		Complete maintenance inspections and
Maintenance and		Maintenance	Endeavour	testing
Operation	Maintenance	Streetlighting	Energy	Customer request triage and scheduling
Management		network		



Role		Function	Responsible	Activities
				Establish maintenance protocols and procedures
				Work order scheduling
				Undertake maintenance requests
		Asset Maintenance – Privately Metered	Manager City Works	Complete maintenance inspections and testing
			VVOIKS	Customer request triage and scheduling
			Manager Infrastructure	Establish maintenance protocols and procedures
		Metered	Strategy and	Work order scheduling
			Planning	Undertake maintenance requests
	Operation	Asset Operations	Manager	Utility management
			Project Delivery	Compliance audits

12.3.5 Performance

We currently have limited information on the performance of transport facilities as we are yet to comprehensively rate the condition, function, and capacity of the asset group.

A service agreement is in place with Endeavour Energy for the condition and functionality of the street lighting network. Street lighting is meeting performance expectations.

12.3.5.1 Customer Satisfaction Survey

Below is an extract of table 13 from the Wollongong City Council Community Satisfaction Survey as it relates to transport facilities. The change in level of mean satisfaction scores for regulation of traffic suggests it is an area of priority for Council. Roads and traffic were also identified as key priorities from the Residents' Wish List, with 41% of respondents suggesting this is a key focus area for Council over the next 4 years.

DIRECT SERVICES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Regulation of traffic flow in local area	3.2	3.2	3.3	3.2	3.1	3.3	3.1	V
Compliance and regulation of parking	-	-	-	-	-	3.2	3.1	⇔
Regulation of traffic flow in city centre	3.0	3.2	3.1	3.1	3.2	3.2	3.0	¥
Provision of parking in high demand areas (city centre, foreshore)	-	-	-	-	-	2.5	2.5	⇔

12.3.5.2 Legislative Requirements

The following legislation is associated with the Transport facilities service provision:

- Roads Act 1993
- NSW Road Rules 2008
- Road Transport (Safety and Traffic Management) Act 1999
- Road Transport (Safety and Traffic Management) Regulation 1999
- Transport Administration Act, 1988

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12.3.6 Future Investments

12.3.6.1 New and Upgrade Plans

The following table includes new and upgraded intersections that are listed in the West Dapto Vision and Development Contributions Plan. The intersections were identified as part of the demand analysis for transport associated with the population growth, and a review of the existing transport provision and developing a proposed transport model. The timing of the works is driven by the rate of development, with the contribution plan providing indicative timing. The data and references are compiled using the following tables from the West Dapto Development Contribution Plan: 11, 13, 16, and Schedule 3. The table includes bridges that are anticipated beyond the 10-year life of the plan; however, they are included for completeness. These forecasts are subject to vary in according to rate of development.

Road Item Ref	Map Ref	Road 1	Road 2	Intersection Treatment	Indicative Timing	Cost estimate - Road Level
Intersect	tions for e	existing roads				
TR01	IN12	Wyllie Road	West Dapto Road	Small roundabout	2020/21 - 2030/31	
TR01	IN14	Industrial Access Road	West Dapto Road	Small roundabout	2020/21 - 2030/31	
TR01	IN15	Darkes Road	West Dapto Road	Large signals	2020/21 - 2030/31	
TR01	IN16	New road (not in Plan) (south of Darkes Road)	West Dapto Road	Small roundabout	2020/21 - 2030/31	
TR01	IN17	New road (not in Plan) (south of Darkes Road)	West Dapto Road	Large signals	2020/21 - 2030/31	4,535,905
TR01	IN18	Rainbird Drive / New Road (not in Plan)	West Dapto Road	Large signals	2020/21 - 2030/31	
TR01	IN13	Reddalls Road	West Dapto Road	Small roundabout	2020/21 - 2030/31	
TR01	IN10	Northcliffe Drive Extension	West Dapto Road	Large signals	2020/21 - 2030/31	
TR02	IN11	Princes Hwy	West Dapto Road	Large signals	2010/11 – 2031/32	1,790,415
TR03	IN20	Sheaffes Road	New Road (not in Plan) (east of Paynes Road)	Small roundabout	2021/22 - 2025/26	1,309,467

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Road Item Ref	Map Ref	Road 1	Road 2	Intersection Treatment	Indicative Timing	Cost estimate - Road Level
TR03	IN21	Sheaffes Road	New Road (not in Plan) (west of Paynes Road)	Small roundabout	2021/22 - 2025/26	
TR03	IN7	Sheaffes Road	Paynes Road	Large signals	2021/22 - 2025/26	
TR04	IN6	Paynes Road	Northcliffe Drive Extension / Paynes Road	Large signals	2026/27 - 2030/31	958,486
TR07	IN22	Darkes Road	New Road (not in Plan)	Small roundabout	2027/28 - 2031/32	1,133,976
TR07	IN23	Darkes Road	Princes Hwy	Large signals	2027/28 - 2031/32	1,133,970
TR08	IN19	Shone Avenue	West Dapto Road	Large signals	2012/13 – 2026/27	
TR08	IN24	Shone Avenue	Western Ring Road	Large signals	2012/13 – 2026/27	2,584,078
TR08	IN25	Horsley Drive	Shone Avenue	Small roundabout	2012/13 – 2026/27	2,304,070
TR08	IN26	Bong Bong Road	Shone Avenue	Small signals	2012/13 – 2026/27	
TR10	IN27	Bong Bong Road	Station Street	Small signals	2035/36 - 2040/41	
TR10	IN28	Bong Bong Road	Eastern Link Road	Large signals	2035/36 - 2040/41	
TR10	IN30	Fairwater Drive (west)	Bong Bong Road	Small roundabout	2035/36 - 2040/41	2,190,305
TR10	IN29	Bong Bong Road	Sierra Drive	Mini roundabout	2035/36 - 2040/41	
TR10	IN63	Bong Bong Road	Glenlee Drive	Small roundabout	2035/36 - 2040/41	
TR13	IN37	Cleveland Road	New Road (not in Plan) (Brooks Reach east)	Large signals	2013/14 - 2031/32	
TR13	IN40	Cleveland Road (dogleg)	New Road (not in Plan)	Small roundabout	2013/14 - 2031/32	
TR13	IN36	Cleveland Road	Eastern Link Road (Daisybank Drive)	Large signals	2013/14 - 2031/32	4,009,434
TR13	IN38	Cleveland Road	Brooks Reach to Huntley Link	Large signals	2013/14 - 2031/32	
TR13	IN39	Cleveland Road	Western Ring Road	Large signals	2013/14 - 2031/32	
TR14	IN41	Cleveland Road	Avondale Road	Small roundabout	2040/41 – 2050/51	
TR14	IN45	Avondale Road	Brooks Reach to Huntley Link	Small roundabout	2040/41 – 2050/51	2,926,864
TR14	IN46	Avondale Road	Western Ring Road	Large signals	2040/41 – 2050/51	

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Road Item Ref	Map Ref	Road 1	Road 2	Intersection Treatment	Indicative Timing	Cost estimate - Road Level	
TR14	IN43	Avondale Road	Eastern Link Road (NR53)	Small signals	2040/41 – 2050/51		
TR14	IN44	Avondale Road	Huntley Road	Large signals	2040/41 – 2050/51		
TR15	IN58	Huntley Road	Princes Hwy	Large signals	2035/36 - 2040/41		
TR15	IN59	Huntley Road	Marshall Mount Road	Small signals	2035/36 - 2040/41	2,276,309	
TR15	IN60	Huntley Road	Penrose Drive	Small signals	2035/36 - 2040/41		
TR16	IN62	Yallah Road	Princes Hwy	Large signals	2031/32 - 2035/36	958,486	
TR17	IN55	Yallah Road	Marshall Mount Road	Large signals	2031/32 - 2055/56	4 0 4 0 0 4 4	
TR17	IN56	Marshall Mount Road	North Marshall Mount Road	Small signals	2031/32 - 2055/56	1,943,344	
TR17	IN57	Marshall Mount Road	Marshall Mount Town Centre Bypass	Small signals	2031/32 - 2055/56		
Intersect	ions for i	new roads					
TR18	IN1	Northcliffe Drive extension	Church/lan McLennan Park access	Large signals	2031/32 - 2035/36		
TR18	IN2	Northcliffe Drive extension	Wyllie Road	Large signals	2031/32 - 2035/36		
TR18	IN5	Northcliffe Drive extension	Industrial Access Road	Large roundabout	2031/32 - 2035/36	3,610,339	
TR18	IN3	Northcliffe Drive extension	Reddalls Road (east)	Large signals	2031/32 - 2035/36		
TR18	IN4	Northcliffe Drive extension	Reddalls Road (west)	Large roundabout	2031/32 - 2035/36		
TR19	IN8	Northcliffe Drive extension	New Road (not in Plan)	Small roundabout	2025/26 - 2034/35	350,981	
TR19	IN9	Northcliffe Drive extension	New Road (not in Plan)	Small roundabout	2025/26 - 2034/35	350,961	
TR22	IN31	Fairwater Drive	Sierra Drive	Small roundabout	Completed - 2012/13		
TR22	IN32	Fairwater Drive	Fowlers Road Extension & Eastern Link Road (Daisybank Drive)	Large signals	Completed - 2012/13		
TR23	IN33	Fowlers Road Extension	Princes Hwy	Large signals	2016/17 - 2022/23		
TR23	IN34	Fowlers Road Extension	Marshall Street	Large roundabout	2016/17 - 2022/23	1,693,367	
TR23	IN35	Fowlers Road Extension	Eastern Link Road (NR27)	Large roundabout	2016/17 - 2022/23		

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Road Item Ref	Map Ref	Road 1	Road 2	Intersection Treatment	Indicative Timing	Cost estimate - Road Level
TR25	IN47	Western Ring Road	New Road (not in Plan) (Jersey Farm Road)	Small signals	2021/22 - 2050/51	
TR25	IN48	Western Ring Road	Iredell Road	Large roundabout	2021/22 - 2050/51	
TR25	IN49	Western Ring Road	Bong Bong Road	Large signals	2021/22 - 2050/51	
TR25	IN50	Western Ring Road	New Road (not in Plan) (Brooks Reach west)	Small signals	2021/22 - 2050/51	5 205 602
TR25	IN51	Western Ring Road	New Road (not in Plan)	Large roundabout	2021/22 - 2050/51	5,295,603
TR25	IN52	Western Ring Road	New Road (not in Plan)	Large roundabout	2021/22 - 2050/51]
TR25	IN53	Western Ring Road	Eastern Spine Road (NR55)	Large signals	2021/22 - 2050/51	
TR25	IN54	Western Ring Road	New Road (not in Plan)	Large signals	2021/22 - 2050/51	
TR26	IN42	Brooks Reach to Huntley Link	Stockyard Crescent	Small roundabout	2035/36 - 2055/56	175,490
TR29	IN61	Marshall Mount Town Centre Bypass	Yallah Road	Large signals	2035/36 - 2040/41	818,284

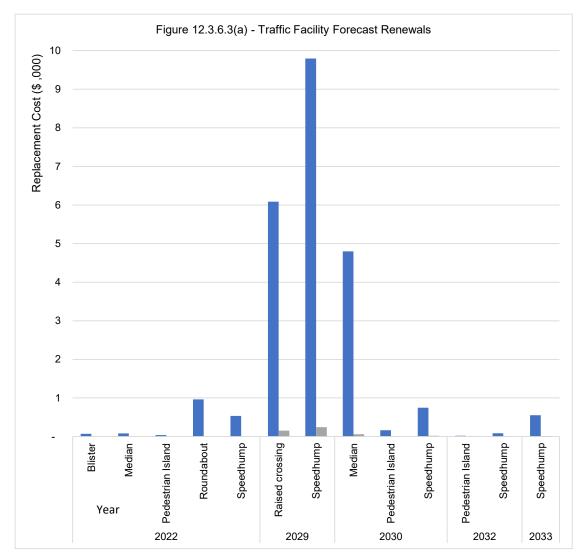


12.3.6.2 Decommissioning and Disposal Planning

There are no assets under this grouping currently identified for decommissioning.

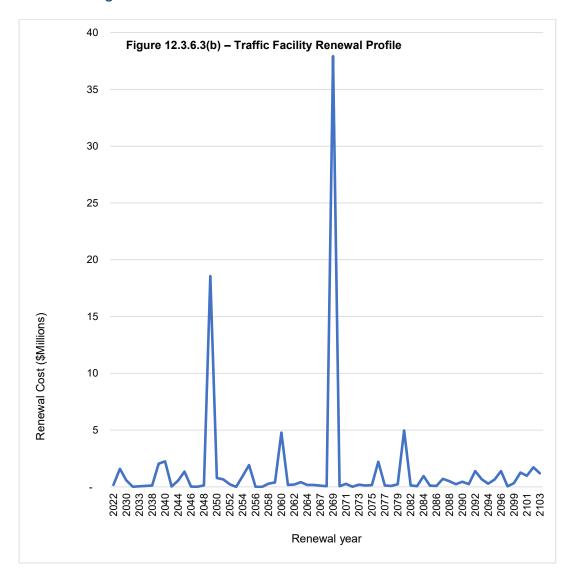
12.3.6.3 Renewals

Figure 12.3.6.3(a) below provides an overview of the renewal profile over the 10-year period of this plan.



If we look at the renewal profile of the whole asset group, as shown in the Figure 12.3.6.3(b) below, there are distinct peaks occurring in the years of 2049 and 2069. This is because of two assumed commission dates for large groups of assets for 1969 and 1989, with 80-year useful life. To smooth out the profile and provide a more realistic renewal forecast, the condition and remaining useful life should be reassessed. At present the primary driver for forecasting renewal is age, not observed condition.





Damage to traffic facility assets resulting from minor vehicle impact is a main cause for early renewal intervention. This accelerates the renewal forecast ahead of the age-based forecast. We have factored in an estimate of the traffic facility assets requiring renewal across the network resulting from minor vehicle damage. Our assumption is 1% of the network being damaged and requiring partial renewal of 30% of the asset. This assumed percentage will be further refined with proactive observed condition rating. Council will pursue insurance claims (where possible), when damage to infrastructure is sustained through motor vehicle accidents.

Maintenance of line marking requires further review. The functionality of transport facilities is often associated with line marking on approach to the device to guide and warn motorists.



12.3.6.4 Future investment plan – Transport facilities

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	2,349,075	2,373,705	2,373,005	2,390,309	2,409,573	2,415,095	2,430,282	2,445,469	2,460,655	2,475,842	2,491,029
Required Maintenance works	765,667	773,695	773,467	779,107	785,386	787,186	792,136	797,086	802,036	806,986	811,936
Street Lighting tariff	3,484,991	3,636,155	3,792,760	3,955,005	4,123,086	4,297,223	4,477,628	4,664,526	4,858,154	5,058,752	5,267,633
Operating expenditure	6,599,733	6,783,555	6,939,233	7,124,421	7,318,045	7,499,504	7,700,046	7,907,081	8,120,845	8,341,580	8,570,598
Renewal works	40,000	-	-	1	ı	675,000	725,000	740,000	775,000	700,000	775,000
Upgrade works	1,870,000	484,435	1,775,000	1	ı	-	1	-	-	ı	-
Expansion works	1	-	-	ı	ı		-	-		ı	-
New works	1,338,000	1,300,000	940,000	1,046,494	300,000	825,000	825,000	825,000	825,000	825,000	825,000
Capital expenditure	3,248,000	1,784,435	2,715,000	1,046,494	300,000	1,500,000	1,550,000	1,565,000	1,600,000	1,525,000	1,600,000
Totals	9,847,733	8,567,990	9,654,233	8,170,915	7,618,045	8,999,504	9,250,046	9,472,081	9,720,845	9,866,580	10,170,598
Estimated Required Renewals	740,854	740,854	740,854	740,854	740,854	740,854	740,854	740,854	740,854	740,854	740,854
Planned renewal as a % of estimated required	258%	65%	240%	0%	0%	91%	98%	100%	105%	94%	105%



12.3.7 Traffic Facility Asset Improvement Program

Item	Issue	Description	Responsible	Timing
3.1	Condition rating	The group of assets has limited condition rating, with renewal planning based on age. Lack of detailed information on commission date, the age profile results in lumpy forecast renewals that should be reassessed (current significant renewals in 2049 and 2069).	MISP	2025
3.2	Artificial Intelligence (AI) condition and defect monitoring	Road signs and line marking perform an important function from a traffic management perspective to advise motorist about road conditions. Investigate the ability to use artificial intelligence with machine learning to increase the frequency of road sign and line marking monitoring.	MISP	2026
3.3	Classification structure	Consider utilising an additional classification level to further group different types of transport facilities. This will address the current naming convention being used to identify the asset type.	MISP	2026
3.4	Prioritisation model	Consider documenting the process for determining priority of expansion and new traffic facility assets for greater transparency on decision making.	MISP	2027
3.5	Useful life assessment	Some minor inconsistencies in the useful life of similar assets were identified. This may be associated with different hierarchy of roads and risk exposure of the devices to traffic volumes. The reason should be documented in asset data dictionaries, or in a future asset management plan to ensure greater reliability in data.	MISP	2025
3.6	Road sign assets	Road signs are recognised as a group asset, not individually itemised. This approach needs to be reviewed to determine if it continues to be appropriate, and that measures are in place to validate the assumptions and verify the value of the asset.	MISP	2026
3.7	Line marking	A review of the condition of line marking and forecasting the expenditure on annual renewal is required.	MISP	2025
3.8	Service levels	Develop asset related service levels	MISP	2025
3.9	Accessibility	Develop and implement a prioritised program to improve accessibility of existing pedestrian transport facilities	MISP	2026
3.10	Standard drawings	A standard suite of drawings prepared for all traffic facilities and different road environments for Council works and contributed assets from developers.	MIS	2026



12.4 Street Furniture, Bus Shelters, and Guardrails

This group of assets contributes to defining and supporting the movement and place vision established through our Integrated Transport Strategy. The assets assist in providing our community and visitors multi modal, efficient and accessible transport options that are safe and connected and enhance the character and experience of our valued places.

12.4.1 Profile

Community Strategic Plan Goal: Goal 2: We have well planned, connected, and liveable places

Service: Transport Services

Street furniture, bus shelters and guardrails contribute to the services under the delivery streams of Road Safety, Traffic and Transport Planning; and the Footpaths, Cycleways and Transport Nodes.

12.4.2 Strategic priorities

Transport services are guided and informed by the following strategic supporting documents:

- Draft Wollongong Integrated Transport Strategy (ITS)
- City of Wollongong Pedestrian Plan 2017-2021
- Wollongong Cycling Strategy 2030
- Wollongong City Centre Access and Movement Strategy 2013
- Keiraville Gwynneville Access and Movement Strategy 2020
- Town Centre Plans
- Disability Inclusion Action Plan 2020-2025
- West Dapto Contributions Plan
- Wollongong City-Wide Development Contributions Plan

As the overarching strategy that informs The Wollongong Integrated Transport Strategy identifies the following key strategic framework and priorities:

Vision - Wollongong is a liveable and green city where everyone has viable transport choices that provide connected journeys through Country that are safe, reliable, and accessible.

Guiding Principles:

- Connecting to Country and Place.
- · Sustainability-focused.
- · Multi-modal transport options for all.
- Integrated land use and transport decisions.
- · Work with the community for change.
- Comfortable and convenient active travel





Goals - the strategy identifies a range of actions linked to achieving the following six goals

- Goal 1 | Competitive Public Transport
- Goal 2 | Everyday needs within 15 minutes
- Goal 3 | A connection to Country and sense of place
- Goal 4 | Increased use of active modes
- Goal 5 | All ages and abilities can get around with ease
- Goal 6 | Sustainable transport options

Table 12.4.2 below summarises the actions from the strategy with a relationship to street furniture, bus shelters, and guardrails:

Table 12.4.2 - Supporting Document Actions

Strategy & Reference	Action	Infrastructure Impact
ITS - 04	Prioritise improvements to amenity at high-use public transport stops by developing guidelines to support service delivery and inform public domain and private development infrastructure. The guidelines to cover items like wayfinding, shade/shelter, and bike parking.	Council is identified as a support. Funding will need to be considered for any actions relating to roads where Council is the roads authority.
ITS-09	Develop an infrastructure investment tool and standard designs for Station Precinct Upgrades for local government owned public domain.	The tool and design will impact the cost of future infrastructure.
ITS – 13	Develop a walking plan to provide high-quality pedestrian routes in town centres that are co-located with train stations: Stanwell Park, Coledale, Austinmer, Thirroul, Bulli, Woonona, Corrimal, Fairy Meadow, Coniston, Port Kembla, Unanderra, and Dapto. The plans are to consider lighting, crossings, and shade / shelter.	The outcomes of the plan may result in identification of new and upgrade infrastructure under a future asset plan.
ITS-21	Develop an implementation plan to improve accessibility at public transport stops.	The upgrade plan is to be funded as part of the 10-year plan.
ITS-31	Develop a public domain planting guide to support walking and cycling to reduce urban heat island effect. Integrate this guide into the Urban Greening Strategy.	The design and placement of infrastructure needs to consider the space requirements for planting.
ITS-36	Develop a Micro Mobility Policy to support the roll-out of shared e-scooter and e-bike schemes across the City. Policy to focus on first/last mile public transport trips, events, and tourism experiences such as the coastal paths.	The plan may identify supporting street furniture to guide and manage micro mobility vehicles.
ITS-42	Develop a program for infrastructure that supports staying activities, rest, and a sense of place. This may include seating, shade trees and water bubblers.	The program will be included in a future asset plan.
DIAP	Increase the number of accessible bus stops and shelters – develop priority list, upgrade priorities linking to continuous path of travel.	Inspections completed and priority list being compiled to inform the priority list. New shelters to meet accessibility standards.



12.4.2.1 Future Impacts

The following future impacts were identified, the strategic response, and the consequences of not funding the impact is summarised below in Table 12.4.2.1:

Table 12.4.2.1 – Future Impacts Street Furniture, Bus Shelters and Guardrails

Future Impacts	Strategic Response	Consequences of Not Funding			
Increasing interest and demand for walking, cycling and public transport options is likely to result in growth of this service.	This action impacts the planning for bus shelters and related infrastructure. The pathways plan addresses increase demand for walking and cycling.	Bus shelters encourage the use of public transport by providing shelter from the elements. People may be less likely to use public transport in inclement weather without shelters and if the shelters condition and appearance is undesirable.			
Increased awareness and requirements to address disability access and inclusion requirements.	An audit has been undertaken to assess current compliance with requirements. A plan for improvements is being developed.	Not funding necessary improvements will fail to meet our commitments and objectives in the Community Strategic Plan.			
Changing New South Wales Government strategies, priorities, and funding programs - Active Transport Funding Program.	Council leverages available funding to support and bring forward planned improvements	Lack of supporting NSW Government funding will delay progress on improvements and upgrades.			

12.4.2.2 Future Demand

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	The West Dapto contribution plan identifies areas for town centre and villages that are likely to increase the number and value of street furniture. The plan also supports access to public transport with provision of facilities for the bus network	The main area of growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the facilities required to support the growth and funding from development towards the	The West Dapto contribution plan identifies the infrastructure and funding required to meet the demand. This plan integrates the contributions plan forecasts.

Asset Management Plan



			recommended infrastructure.	
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may create additional demand and capacity issues for existing street furniture and shelters.	The Integrated Transport Strategy provides a strategic review of demand and capacity.	Capacity needs are expected to be met by current programs.

12.4.2.3 Street Furniture, Bus Shelters, and Guardrail Provision

The provision of street furniture, bus shelters and guardrail assets are assessed and determined based on merit. We consider the demand generated by the community, the risks, accessibility, demographics, and other relevant factors when assessing proposals to provide additional services. Bus shelters are also informed by patronage numbers from bus stop locations, and in growth areas, based on forecast demand.

12.4.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Roads, Footpaths, Other Structures

Valuation Information: Valuation Technique – Infrastructure (including roads and footpaths), and Other Structures are recognised using the cost method, which equates to the current replacement cost of a modern equivalent asset.

Asset Classification L4	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Sum of Current Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Bus Shelters	468	28	8,960,000	498,549	6,315,678
Guardrails	356	52	16,716,867	352,722	10,440,992
Street Furniture	112	25	9,922,522	374,847	6,975,963
Fences	132*	30	4,631,505	160,701	3,724,635
Parking Meters	2*	10	1,973,279	45,613	136,510
	1,070		42,204,173	1,432,431	27,593,777

^{*}The quantity reflects grouped assets

12.4.3.1 Components and attributes

The assets are currently recorded as single assets on the year of acquisition. Items such as fencing, bollards and parking meters are recorded as a group per location/zone.



12.4.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.4.4. Whilst the Transport Service supports critical services, there are no assets under this grouping that are considered critical.

12.4.3.3 Operation and maintenance requirements

The street furniture, bus shelters and guardrail asset group require the following operation and maintenance actions:

- · routine inspections
- defect repairs
- clearing

This is based on a review of required maintenance for this group of assets, we estimate the following percentage of the gross replacement cost:

- Street furniture 0.1%
- Bus shelters 0.65%
- Guardrails 0.6%

12.4.3.4 Depreciation and degradation curves

This group of assets use a straight-line depreciation and degradation curves.

12.4.4 Roles and responsibilities

Street Furniture, Bus Shelters, and Guardrails

Service Manager: Manager Infrastructure Strategy and Planning

Role	Lifecycle	Function	Responsible	Activities
Service Management	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements (Service Manager) Establish customer levels of service Determine asset requirements for service delivery
	Operations	Service Operations (except existing lines and signs)	Manager Infrastructure Strategy and Planning	Act as customer liaison for service Provide information and communications to customers Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation



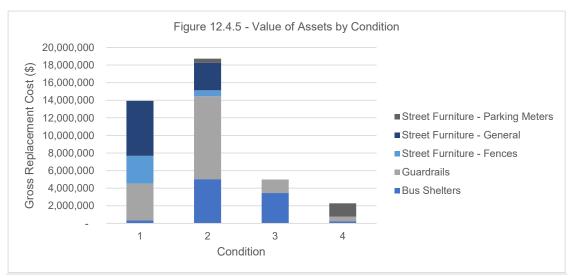
Role	Lifecycle	Function	Responsible	Activities	
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Infrastructure Strategy and Planning	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange or transition of service and data migration Arrange establishment or termination of agreements	
		Asset Planning	Manager Infrastructure Strategy and Planning	Complete performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal/upgrade planning	
Asset management	Planning	Planning Asset Data		Manager Infrastructure Strategy and Planning	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	Revaluation Unit rates Estimates Monitor expenditure	
		Project Sponsor	Director Infrastructure + Works	Capital expenditure review (OLG) Approval project governance framework Approve and monitor project plan	
		Asset Concept	Manager Infrastructure Strategy and Planning	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal	
Project Delivery	Delivery	Program Management	Manager Infrastructure Strategy and Planning	Oversee project as part of program Responsible for managing overall program costs, risks, progress	
		Asset Design	Manager Project Delivery	Ensure design solutions align with strategy Options analysis Proof of concepts Cost estimating Approvals process	
		Asset Delivery	Project Delivery – Major Projects	Procurement strategy Contract management	



Role	Lifecycle	Function	Responsible	Activities
			Manager City Work	Project management User acceptance testing
			VVOIK	Oversee project commissioning and handover
				Complete maintenance inspections and testing
	Maintanana	Asset	Manager City	Customer request triage and scheduling
	Maintenance	Maintenance -	Works	Establish maintenance protocols and procedures
				Work order scheduling
				Undertake maintenance requests
Maintenance and Operation				Maintenance inspections and testing
Management		Asset Maintenance –	Manager City	Customer request triage and scheduling
	Maintenance	Lines and Signage	Works	Establish maintenance protocols and procedures
				Work order scheduling
				Undertake maintenance requests
	Operation	Asset Operations	Manager Infrastructure Strategy and Planning	Utility management Compliance audits

12.4.5 Performance

We monitor the performance of our street furniture, bus shelters and guardrail assets by reviewing condition and customer feedback. We have completed a visual condition assessment on our guardrails and bus shelter assets. The condition of other assets in this group has been derived based on expected useful life and straight-line degradation. Figure 12.4.5 below summarises the condition of these assets.



Asset Management Plan



12.4.5.1 Customer Satisfaction Survey

Below is an extract of table 13 from the Wollongong City Council Community Satisfaction Survey as it relates to street furniture, bus shelters and guardrails.

DIRECT SERVICES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Public bin collection	-	-	-	-	-	3.9	4.0	⇔
Maintenance and cleanliness of bus shelters	3.0	3.2	3.3	3.0	3.5	3.6	3.6	⇔

The results of the community survey demonstrate that Council is maintaining community satisfaction with these services. The quadrant analysis for these services (the derived importance compared to satisfaction), represents opportunities as the importance was relatively lower and satisfaction high.

12.4.5.2 Legislative Requirements

The following legislation is associated with the Transport facilities service provision:

- Roads Act 1993
- NSW Road Rules 2008
- Road Transport (Safety and Traffic Management) Act 1999
- Road Transport (Safety and Traffic Management) Regulation 1999
- Transport Administration Act, 1988
- Disability Discrimination Act 1992

12.4.6 Future Investments

12.4.6.1 Acquisition and Upgrade Plans

Several new assets and upgrade to existing services are planned under this group of assets. The details are summarised in the 10-year outlook section below. New street furniture is associated with upgrades in the CBD, village, and town centre public domain areas. It is estimated that 5% of the project budget for these locations would be allocated towards new street furniture as part of these projects which is included in this plan.

An audit of accessibility provision associated with our bus shelters network has been undertaken. A prioritised list of upgrades are being planned and prioritised based on the utilisation and demand. These works will be considered for inclusion in the upgrade works.

Guardrail upgrades are scheduled for upgrade existing guardrail to contemporary standards, such as end terminal replacement.

The West Dapto Contribution plan identifies the provision of the following infrastructure to support the utilisation of public transport:



Asset Classification	Qty	Description	Planned Year	Source of Funding	Estimated Value*
Bus shelters	218	Item TR30 - West Dapto contribution plan	2019/20 – 2059/60	West Dapto development contributions	8,506,595
Bus transport kiosk	8	Item TR31 - Bus Transport Kiosk	2024/25 – 2059/60	West Dapto development contributions	2,020,336

^{*}Draft West Dapto Development Contribution Plan 2024

The future investment plan includes a provision from the 2028/29 to 2034/35 financial year for the implementation of these initiatives. The timing will need to be reviewed to align with the rate of development and provision of bus services in the area by Transport for NSW.

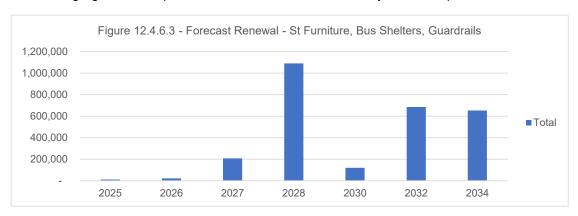
12.4.6.2 Decommissioning and Disposal Planning

Council reviews the effectiveness of transport facilities to identify the need for decommissioning of assets that are not providing effective service. Decommissioning may also be initiated by changes to standards. Unforeseen decommissioning may result where damage occurs to devices through motor vehicle accidents.

There are no plans at this stage for decommissioning of assets in this asset group.

12.4.6.3 Renewals

The following Figure 12.4.6.3 provides an overview of the estimated 10-year renewal profile.



Damage to assets resulting from vehicle impact is a main cause for early renewal intervention for this group of assets. This accelerates the renewal forecast ahead of the age-based forecast. We have factored in an estimate of the traffic facility assets requiring renewal across the network resulting from vehicle damage. Our assumption is 1% of the network being damaged and requiring partial renewal of 30% of the asset. This assumed percentage will be further refined with proactive observed condition rating.

The fleet of parking meters has reached the end of useful life based on technological obsolescence. The existing meters have been upgraded since installation, however there are new smart technology devices available that have greater functionality for users and council. A scope is being prepared for replacement of the meters.

The estimated required renewal funding over the 10-year period is \$4,100,000.





12.4.6.4 Future investment plan – Street Furniture, Bus Shelters, and Guard Rails

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	1,432,431	1,432,431	1,433,551	1,439,609	1,463,911	1,470,699	1,477,487	1,484,275	1,491,063	1,497,851	1,504,639
Required Maintenance	251,229	251,592	253,830	260,041	260,241	260,441	260,641	260,841	261,041	261,241	261,441
Operating expenditure	1,683,660	1,684,023	1,687,381	1,699,650	1,724,152	1,731,140	1,738,128	1,745,116	1,752,104	1,759,092	1,766,080
Renewal works		245000	30000	250000	250000						
Guardrail and Street furniture	40,000					ŀ	ŀ	400,000		500,000	
Bus Shelters	-					50,000	-	325,000	50,000	325,000	50,000
Upgrade works		30,000	80,000	300,000	300,000						
Guardrail	-					75,000	75,000	75,000	75,000	75,000	75,000
Bus Shelters	20,000					100,000	100,000	100,000			
Expansion works	-					50,000	50,000	50,000	50,000	50,000	-
New works	20,000	260,000	325,000	75,000	75,000						
Street Furniture	3,000					200,000	200,000	200,000	200,000	200,000	200,000
Guardrail	10,000										
Bus Shelters	0										
Capital expenditure	93,000	535,000	435,000	625,000	625,000	475,000	425,000	1,150,000	375,000	1,150,000	325,000
Totals	1,776,660	2,219,023	2,122,381	2,324,650	2,349,152	2,206,140	2,163,128	2,895,116	2,127,104	2,909,092	2,091,080
Estimated Required Renewals	131,900	141,758	328,000	1,209,447	120,000	239,289	120,000	805,000	120,000	773,000	120,000
Planned renewal as a % of estimated required	45%	194%	34%	45%	458%	94%	146%	112%	104%	116%	104%



12.4.7 Street Furniture, Bus Shelters, and Guard Rails Infrastructure Improvement Program

Item	Issue	Description	Responsible	Timing
4.1	Review remaining useful life	Condition assessments have been undertaken for a range of assets in this group. A review of the remaining useful life and asset expiry date should be undertaken to align with the observed condition.	MISP	2025
4.2	Bus shelter renewal	The allocated funding for renewal of bus shelters is approximately 35% of the required expenditure. Consider the option of advertising to provide income to fund maintenance and renewal costs of shelters.	MISP / MCO+P	2025
4.3	West Dapto	The timing of the West Dapto rate of development and the bus service provided by Transport for NSW needs to be monitored to inform the timing of infrastructure delivery.	MISP	2028
4.4	Accessibility Upgrade	Prepare, prioritise and implement accessibility upgrades to bus shelters and transport nodes to improve accessibility of existing infrastructure. Coordinate works with planned renewals or earlier if works identified as high priority.	MISP	2026
4.5	Standardisation	Develop a standard suite of street furniture and shelters based on place outcomes and hierarchy.	MISP	2026
4.6	Prioritisation	Develop a risk-based approach to guardrail installations considering whole of life cost considerations	MISP	2026



12.5 Pathways

2035

Pathways provide an essential transportation function for people to move around our city. This section of the asset plan details our footpath, shared paths, off-road cycleways, access ramps and kerb ramp assets. It includes a profile of the services they support and the attributes determining how we manage them.

There are over 639km of pathways across the Wollongong local government area, primarily located within and adjacent to road corridors, localised pathways connecting between streets, and pathways through open space making just over 7% of the network.

Our community satisfaction survey confirmed that 97% of respondents utilise the footpath network, 82% use shared paths, and 47% use cycleways. Footpaths were the highest utilised facility in the community survey, showing similar results in the 2021 survey. The survey also identifies footpaths and shared paths as a priority for council as they are of higher importance to the community, where we are not meeting expectations. Pathways were regarded as a key area by the community for council to focus on, and one of the most common reasons for contacting council with 17% of respondents raising issues with maintenance of roads/parks/footpaths. Further information on the reasons for these responses would enable better alignment of actions to improve community satisfaction in this area.

12.5.1 Profile

Community Strategic Plan Goal: Goal 2: We have well planned, connected, and liveable places

Service: Transport Services

The Footpaths, Cycleways and Transport Nodes service delivery stream provides the community with a plan for the delivery of footpaths, cycleways, and transport nodes (bus stops, taxi stands, etc) to be safe and accessible for the current and future communities. This is achieved through implementing the Wollongong Cycling Strategy, developing, and implementing the Wollongong City Integrated Transport Strategy and City Centre Access and Movement Plan.

The service includes inspection, construction and maintenance of footpaths, shared paths, and off-road cycleways (on-road cycleways are managed under roads). The service includes a range of infrastructure that supports pathways, such as regulatory and directional signage and line marking, roadside furniture (bin surrounds, bollards, tree guards, pedestrian fences, rest seats). This plan focuses on the surface of pathways that facilitate the movement of people. Assets that support pathway infrastructure are addressed in other parts of this asset plan.

12.5.2 Strategic priorities

Transport services are guided and informed by the following strategic supporting documents:

- Draft Wollongong Integrated Transport Strategy
- City of Wollongong Pedestrian Plan 2017-2021
- Keiraville Gwynneville Access and Movement Strategy 2020
- Wollongong City Centre Access and Movement Strategy 2013
- Wollongong Cycling Strategy
- Disability Inclusion Action Plan
- West Dapto Contributions Plan





Wollongong City-Wide Development Contributions Plan

The service is primarily guided by Council's *Integrated Transport Strategy (ITS)* supporting document. The *ITS* identifies the following key strategic framework and priorities:

Vision – Wollongong is a liveable and green city where everyone has viable transport choices that provide connected journeys through Country that are safe, reliable, and accessible.

Guiding Principles - Connecting to Country and Place.

Sustainability-focused.

Multi-modal transport options for all.

Integrated land use and transport decisions.

Work with the community for change.

Comfortable and convenient active travel

Goals - Goal 1 | Competitive public transport

Goal 2 | Everyday needs within 15 minutes

Goal 3 | A connection to Country and sense of place

Goal 4 | Increased use of active modes

Goal 5 | All ages and abilities can get around with ease

Goal 6 | Sustainable Transport Options

Pathways form an important part of the transport network, providing access for pedestrians and cyclists to move locally and beyond.

Table 12.5.2 below summarises the actions from the strategy with a relationship to pathways and an assessment of the direct impact on pathway infrastructure planning:

Table 12.5.2 - Supporting Document Actions

Strategy & Reference	Action	Infrastructure Impact
ITS-10	Embrace the 15-minute neighbourhood concept. Prepare a network map detailing where people can travel within 15 minutes of their location in town centres by walking or active transport options like cycling.	The network plan will identify gaps and locations to consider for future expansion of the network.
ITS-12	All town and village centres, and any Master Planned development, have a tailored Movement and Place plan developed	Town and village centre masterplans identify materials and widths of pathways which impact the lifecycle cost of providing the network. The masterplans should consider lifecycle costs as part of the planning process.
ITS-13	Develop a walking plan to provide high- quality pedestrian routes in town centres that are co-located with train stations: Stanwell Park, Coledale, Austinmer, Thirroul, Bulli, Woonona, Corrimal, Fairy Meadow, Coniston, Port Kembla, Unanderra, and Dapto. The plans are to consider lighting, crossings, and shade/shelter.	The plan will identify gaps and locations to consider for future expansion of the network.

Asset Management Plan



Strategy & Reference	Action	Infrastructure Impact
ITS-14	Develop Wollongong Movement Framework study to understand current categorisation of road network and look for opportunities for enhanced permeability function through Parks and Schools	The study will identify gaps and locations to consider for future expansion of the network.
ITS-15	Develop an 'investment weighting' tool that provides a transparent evaluation of merits for all proposed projects. A suite of criteria should be set in the tool that will show how to deliver the greatest benefit for the community and help build the integrated network and aligned with the safe systems approach.	This action will guide the evaluation of future investment into expansion of the network
ITS-17	Develop an eco-friendly travel tourism strategy and plan across the LGA incorporating a program of targeted: • Wayfinding signage at train stations • Carshare near train stations • Micro-mobility at train stations connecting to key tourist destinations • Event green travel plan Marketing material promoting Wollongong as a tourist destination accessible by train for Sydney-residents.	The travel tourism plan will require support of an integrated pathway network to function.
ITS-20	Develop a multi-modal transport plan for people wanting to visit the Seacliff Bridge and surrounds from Coalcliff and/or Scarborough Stations.	The plan will identify gaps and locations to consider for future expansion of the network.
ITS-22	Develop a future mobility plan that considers emerging technologies to better support all ages, all abilities access at key transport nodes.	The plan will identify gaps and locations to consider for future expansion of the network.
ITS-26	Create a community reporting system for poor access in transport infrastructure and a council audit register to prioritise upgrading infrastructure based on priority.	Responding to the reports will require resources to implement prioritised upgrades.
ITS-27	Through Council's Safer Routes to School, develop 15- minute walking and 5-minute cycling catchment plans around schools to support child-friendly routes to schools.	The plan will identify gaps and locations to consider for future expansion of the network.
ITS-28	Develop a Safe Systems program and suite of projects to address road safety throughout the Wollongong LGA.	Projects identified through this process may include pathway upgrades to consider for future planning.
ITS-31	Develop a public domain planting guide to support walking and cycling to reduce urban heat island effect. Integrate this guide into the Urban Greening Strategy.	The design and specification for pathways needs to consider the space requirements, and potentially subsurface infrastructure to reduce the likelihood of future pathway damage induced by tree roots (concrete locking/articulation joint, root barriers, etc)



Strategy & Reference	Action	Infrastructure Impact		
ITS-32	All town centre traffic signals to have pedestrian and bicycle priority and low cycle times to promote walking and bike riding	Action is unlikely to impact on pathway planning – it will improve functionality and user experience.		
ITS-33	Council adoption of a LGA Cycling Network Plan	The plan will identify gaps and locations to consider for future expansion of the network.		
ITS-36	Develop a Micro Mobility Policy to support the roll-out of shared e-scooter and e-bike schemes across the City. Policy to focus on first/last mile public transport trips, events, and tourism experiences such as the coastal paths.	The policy will outline the commitment, principles and high-level roles and responsibilities. There is no direct impact on infrastructure because of the policy. It is anticipated that there may be impacts on the specification (width, materials, etc) to support the additional use demand for shared paths.		
ITS-37	Develop a multi-modal transport plan to connect to the NPWS Great Southern Walk from the Royal National Park	The plan will identify gaps and locations to consider for future expansion of the network.		
ITS-38	Develop a cycle-tourism strategy that incorporates sites and routes other than the Grand Pacific Walk that can bring in and maintain a multi-day bike riding tourism.	The strategy will identify objectives and needs that will need to be investigated for future expansion and/or modification of the network.		
ITS-39	Build knowledge and acknowledge the traditional routes of the Dharawal people and develop a plan of how the routes may be appropriately recognised	The outcome may identify recommended modification of the network.		
ITS-40	Develop a wayfinding plan and infrastructure design standard for walking and cycling recognising the stories of the Dharawal people	The plan and design standard will influence the specification and standards for pathways.		
ITS-45	Prepare a multi-agency feasibility study for a cycling commuter corridor within the unused lands of the rail network, with connection to the Lake Illawarra Shared Use Path Plan.	The feasibility plan and multiagency approach will require allocation of resources to support the study. Further implications may include the consideration of funding to provide additional pathway network.		
ITS-46	Develop a micro-mobility park and ride plan for Thirroul Station and Church Street car park.	The plan may identify gaps in the network that provide the most direct and safe route, requiring modification and/or expansion of the network.		
ITS-54	Develop a plan to manage services and utility infrastructure impacts to our footpath networks	Utility providers need to access underground services to facilitate reactive and planned maintenance and capital works. These works result in the excavation and need for restoration of pathway (and typically road) surface.		
		There have been several examples of works undertaken by utility providers within a short period of newly constructed pathways.		
		The plan is aimed to reduce wastage and impact on long-term service life through		



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Strategy & Reference	Action	Infrastructure Impact
		better planning and coordination of planned works between Council and utility providers.
ITS-55	Develop a road safety plan and education campaign for the Wollongong LGA. Including addressing the use of high speed, illegal e-bikes.	An objective of the plan is to create a safer environment for utilisation of the pathway network. The outcome is to increase the utilisation and reduction in injuries to pedestrians on pathways.

12.5.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for transport. The strategic response as it relates to pathway assets, and the consequences of not funding the impact is summarised below in Table 12.5.2.1.

Table 12.5.2.1 - Future Impacts

Future Impacts	Strategic Response	Consequences of Not Funding
Increasing interest and demand for walking, cycling and public transport options is likely to result in growth of this service.	The community satisfaction survey already demonstrates the importance of the pathway network, with 97% of participants indicating that they utilise footpaths. The increase in additional modes of transport including cycling and micro-mobility will generate a need to consider increased capacity (widening) in parts of the network.	Investing in improving capacity in locations of high demand will improve the likelihood of encouraging and maintaining greater mode shift and reduce likelihood of incidents.
Increased awareness and requirements to address disability access and inclusion requirements.	We have undertaken a comprehensive network review of accessibility requirements at pathways in the immediate vicinity of bus stops. Our specification and standard details for new works includes consideration of accessibility requirements.	Goal 5 and Goal 6 of Our Wollongong Our Future 2032 Community Strategic Plan are aligned to providing access and inclusive facilities. Not funding this issue will impact the ability to achieve our objectives.
Changing New South Wales Government strategies, priorities, and funding programs - Active Transport Funding Program	The main source of funding for council services is via rates, with the second source being grants. Grant funding is used to leverage and support the implementation of (primarily) new infrastructure. Funding programs can bring forward the implementation of priority projects to meet the demand for accessible facilities.	The NSW Government funding programs are allocated on a competitive priority basis. Council is not guaranteed funding through these programs. Reduction or cessation of the NSW Government funding program will impact our ability to bring forward high priority projects.
Increased demand for tree canopy to reduce the urban heat island effect	A key reduction measure addressing the urban heat island effect of our cities are trees. Tree root systems have a	Street tree planting will be avoided and increase temperatures of our urban environment will continue.



direct impact to path performance and condition.	Community surveys will continue to decline without integrated tree and path standard designs.
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12.5.2.2 Future Demand

The Integrated Transport Strategy identified the case for change outlining the future for transport in 2036 without changes. These implications will help create changes in demand that influences our planning associated with pathways, as summarised below in Table 12.5.2.2:

Table 12.5.2.2 - Future Demand for Pathways

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Increased car travel	22% increase in vehicle km's travelled	Increase congestion on roads will increase demand for alternative transport modes including walking and cycling and associated pathways	Actions in the Integrated transport strategy	Pathway programs. Traffic facility program.
More trips to Wollongong City Centre	13% more cars equivalent to 13,000 more car trips in the am peak	Increase congestion on roads will increase demand for alternative transport modes including walking and cycling and associated pathways throughout the city centre.	Actions in the Integrated transport strategy	Pathway programs Traffic facility program
People want better access to safe facilities for active transport	25% of people are interested in bike riding – 22% are concerned about facilities in the National Cycling participation survey The cycling strategy targets the following increases in cycling: participation to 20%. journey to work trips to 2%.	Additional cycling options for daily travel needs through an increased active transport network	Actions in the Integrated transport strategy	Pathway program Transport for NSW Active Transport Program



Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand	
	transport trips to 25%				
Increased demand for public transport	Road congestion increase with an AM peak delay increasing by 21% in 2036 leading to changes in mode priority.	Increased demand for public transport will have a corresponding increase in pathway usage for the first and last stage of the trip. The need for maintenance of pathways around transport nodes will increase with increased use patterns.	Actions in the Integrated transport strategy	More trains more services (Transport for NSW initiatives). Pathway program Footpath maintenance program	
Population Ageing	The average age of the population is increasing, and the proportion of people aged 75+ increases.	Increased need to create environments that are accessible for people with vision or auditory impairment. Also increased demand for mobility scooters and alike on the pathway network.	Accessibility standards for new pathways and audits for existing pathways.	Access improvements through the pathways program.	
Increased incidence of Road trauma	Previous years have seen a significant increase in serious injury and fatalities on our roads in NSW. If this trajectory was to continue additional interventions will need to occur.	Increased demand for new traffic facilities to make a safer road environment.	NSW Centre for Road Safety	Funded traffic facilities new program.	



12.5.3.1 Pathway Provision

Based on the results of the Community satisfaction survey, pathways are some of the most utilised infrastructure groups by the community. Whilst we have an extensive network of over 639km of pathways, there are still many streets without a formalised pathway. Council receives many requests every year for the provision of new pathways to connect the local community to various destinations.

We must balance the needs of renewing existing infrastructure against the provision of new pathways across the city. Our current Infrastructure Delivery Program includes a plan to invest over \$40M into pathways, with approximately \$11M (28%) towards expanding the network with new pathways. The balance funds renewal of existing pathways and improvements to the CBD Public Domain and the many Village and Town Centre pathways under this program.

Considering the number of streets without pathways, the number of requests from the community each year, and the available budget for new pathways, we prioritise locations balancing risk and benefits. We analyse a range of factors that may include the hierarchy of the adjoining road (speed and traffic volume), proximity to pedestrian generators (public transport, schools, shops, sport fields etc), accident history, catchment serviced, ability to complete missing links, alignment with strategic plans, feasibility, and cost to inform the priority. This generates a list of candidate projects that is considered for inclusion in a future program. The Walking, Cycling and Mobility Reference Group helps to inform council on strategic plans related to pathways, advise of issues and barriers, and advocate for matters relating to pathways and functionality.

12.5.4 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Footpaths (93%), Roads (2%), and Other Open Space/Recreation Assets (6%)

Valuation Information: – Pathways infrastructure assets are recognised using the cost method, which equates to the current replacement cost of a modern equivalent asset. The cost to replace the asset (gross replacement cost) is to equal the amount that a market participant buyer of that asset would pay to acquire it.

Fair Value Hierarchy - the general valuation approach to determine the fair value of the pathway infrastructure inventory is to determine a unit rate based on square metres or an appropriate unit supported by market evidence (Level 2 input). Further to this other input such as asset condition and useful life require a significant level of professional judgement and can impact significantly on the fair value. As such the level of valuation input for these assets was considered level 3.

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Asset Type	Qty	Av Useful	Carrying Value	¹ Annual Depreciation	Current Asset Cost
7,5551,755		Life		(\$) @ 01/07/2024	
Access Ramps			0		
Concrete	2	100	151,262	1,793	179,352
Other	5	62	464,971	8,084	568,407
Pathway *			0	0	
Asphalt	238	66	13,710,346	563,722	33,574,477
Concrete	4,598	100	188,410,553	3,412,006	340,119,964
Concrete & Timber	11	80	638,524	12,140	971,215
Granite	2	100	531,183	6,157	615,708
Other	62	80	6,305,532	117,638	9,411,046
Pavers	259	80	19,892,803	535,374	42,525,576
Synthetic #	1	80	9,520	138	11,051
Timber	5	56	21,751	1,819	107,383
Various Materials	8	80	1,155,056	16,930	1,354,401
Grand Total			231,291,500	4,675,800	429,438,580

^{*}Kerb ramps are included in the pathway assets

12.5.4.1 Components and attributes

Pathways assets are recognised as a single component level and descriptor to indicate construction material.

12.5.4.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5. A review of the Transport Service identified that it is a critical service, and consequently, does have critical assets. However, pathways were not identified as a critical to supporting the service.

12.5.4.3 Operation and maintenance requirements

Pathways require reactive maintenance to ensure they can meet the expected service and functionality requirements. Typical maintenance actions include grinding and localised slab replacement to address defects. Operational requirements include inspections and in limited locations, sweeping and/or pressure washing. We estimate that the required annual investment into operations and maintenance of pathways is 0.78% of the gross replacement cost.

[#] Synthetic treatments are typically isolated and have traditionally not been separately identified. There is further discussion in Maintenance Treatments.

¹ Note that the annual depreciation estimate includes a revised estimate of useful life for concrete access ramps, concrete pathways and granite pavers to 100 years.



12.5.4.4 Depreciation and degradation curves

Pathway assets use a straight-line depreciation and degradation profile.

12.5.5 Roles and responsibilities

Service Manager: Manager Infrastructure Strategy and Planning

Role	Lifecycle	Function	Responsible	Activities
Service Management	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery
	Operation	Service Operations	Manager Infrastructure Strategy and Planning	Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Infrastructure Strategy and Planning	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service Arrange establishment or termination of agreements (utilities)
		Asset Planning	Manager Infrastructure Strategy and Planning	Complete condition and performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal planning
Asset management	Planning Asset Data	Asset Data	Manager Infrastructure Strategy and Planning	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	Revaluation Unit rates Estimates



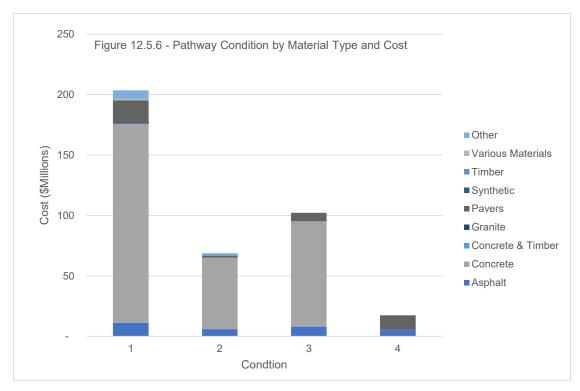
Role	e Lifecycle Function Responsible		Activities		
				Monitor expenditure	
		Project Sponsor	Director Infrastructure + Works	Approval of project plan Oversee business proposal Capital expenditure review (OLG)	
		Asset Concept	Manager Infrastructure Strategy and Planning	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal	
		Program Management	MPD	Oversee project as part of program Responsible for managing overall program costs, risks, progress	
Project Delivery	Delivery Asset Design Asset Delivery		Manager Infrastructure Strategy and Planning Major Projects – Manager Project	Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process	
			Manager Infrastructure Strategy and Planning Major Projects – Manager Project Delivery	Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Oversee project commissioning and handover	
Maintenance and Operation Management	Maintenance	Asset Maintenance	Manager City Works	Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works	
	Operation	Asset Operations	Manager City Works	Sweeping Cleaning	



12.5.6 Performance

We monitor the performance of our pathway assets by monitoring condition and community satisfaction.

A snapshot of the condition profile against the current replacement cost is provided below in Figure 12.5.6. Condition has been derived based on the asset consumption and a straight-line degradation profile.



A comprehensive review of the condition of pathways is to be planned within the next 2-year period. The results of this audit will enable a more thorough renewal plan to be prepared. It will also enable a maintenance program to be developed based on a collection of defects.

The specification of pathways is determined based on the intended use. Capacity is monitored in high use locations.

12.5.6.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey shows a high level of utilisation and satisfaction with the provision of pathways. A summary of the utilisation of pathways is shown below in Table 12.5.6.1 (a):

Table 12.5.6.1 (a) -Pathway Utilisation

	AT LEAST MONTHLY	UP TO 9 TIMES A YEAR	UP TO 6 TIMES A YEAR	UP TO 3 TIMES A YEAR	USAGE RATE	NOT IN THE LAST 12 MTHS	NEVER	CAN'T SAY
Footpaths	92%	1%	1%	2%	97%	1%	2%	1%
Shared use paths	67%	4%	4%	7%	82%	3%	15%	1%
Cycleways	30%	4%	4%	9%	47%	10%	43%	0%

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The average satisfaction results, using a five-point scale where 1 meant 'not at all satisfied' and 5 meant 'very satisfied', for the categories relevant to pathways are provided below in Table 12.5.6.1 (b):

Table 12.5.6.1 (b) - Community Satisfaction Pathway Related Results

FACILITIES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Cycle ways (including pop up cycle ways)	-	-	-	-	-	3.8	3.8	⇔
Shared use paths	-	-	-	-	-	3.8	3.7	⇔
Footpaths	-	-	-	-	-	3.5	3.3	Ψ

12.5.6.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance				
Customer Leve	Customer Levels of Service							
Safety	Pathways are safe for use	Number of claims alleging injury or damage associated with condition of a pathways	Pathway condition not found to have contributed to injury or damage.					
Function and Serviceability	Pathways are fit for purpose and available for use	No restrictions that unreasonably limits usability of the pathways	Less than 5% of pathway network unavailable for use					
Utilisation	Pathways are being utilised by the community	Community survey – Facility Utilisation Rate	Utilisation rate not reducing by more than 10% to previous survey	Target not achieved for cycleways (reduction of 13%)				
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey Facilities – Internal Benchmark	No significant decrease in average satisfaction results to previous survey	Target not achieved for footpaths – decreased from 3.5 to 3.3				
Residents' Wish List	The community do not see this asset group or associated service as an area of focus for council over the next 4-years	Community survey internal benchmark – "In your view what are the three key areas you think Council should focus on over the	Less than 5% increase on previous percentage	Footpath increased from 15% to 18% between 2021 and 2023. Target achieved				

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Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance			
		next four years?"		©			
Technical Leve	Technical Levels of Service						
Condition Inspection	Comprehensive condition assessment	4-yearly	75% compliance				
Urgent safety repairs	Requests responded to and pathway made safe	Actioned and made safe within service standard	85% compliance				
Removal of wind-blown sand	Creating a hazard	Addressed within service standard	75% compliance				
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Assets with high maintenance costs identified for major maintenance program or renewal.				
Risk	Pathways are maintained within a tolerable risk profile.	Risk assessment of assets to be undertaken.	All pathways managed in accordance with the infrastructure risk appetite statement				
		Percentage of identified renewals funded					
	Asset management	Percentage of planned renewals completed					
Performance	Asset management actions and funding allocation supports long-term sustainability	Ratio of planned maintenance to reactive maintenance expenditure increasing over time					
		Percentage of identified proactive maintenance works completed					

12.5.6.3 Legislative Requirements

The following legislation are relevant to pathway works:

- Roads Act 1993
- Road Transport Act 2013
- Environmental Planning & Assessment Act 1979
- Threatened Species Conservation Act 1995
- Native Vegetation Act 2003





12.5.6.4 Infrastructure Resilience

An assessment of the vulnerability of pathway infrastructure identified the most relevant hazards below:

Risk Rating	Hazard Name	Rating Priority	Residual Risk Rating
1	Severe Storm	EXTREME	Major/Likely
4	Flood – Lake and Flash	EXTREME	Major/Likely
9	Landslip/Mudflow/Rockfall	HIGH	Moderate/Likely
24	Coastal Erosion	RARE	Minor/Low

A significant portion of the Wollongong Local Government area is affected by flood hazard. Given the scale of the pathway infrastructure impacted, it is not practical to implement a proactive program to modify footpaths in response to flood risk. We have seen damage to pathways adjoining areas that have been impacted by erosion induced by storms and flooding. When this occurs, a review will be undertaken to determine options to improve resilience of the path to future events.

Landslip, mudflow and rockfall hazards may result in short-term closure for minor repairs, through to major destruction of the pathway. Due to the topography and geology of parts of the local government area, we have many pathways located near to embankments and on challenging geology. The construction of new pathways in these areas is typically supported with geotechnical assessment and structural design to reduce the risk of damage from instability. Existing pathway assets will be monitored for signs of movement or instability and necessary works implemented.

The Coastal Zone Management plan reviewed the locations most vulnerable to impacts from severe storm and coastal erosion along the Wollongong coastline. This is further discussed below.

12.5.6.5 Coastal Zone Management Plan

The Wollongong Coastal Zone Management Plan 2017 (CZMP) reviewed the vulnerability of the pathway network to storm erosion and sea-level rise induced foreshore recession. The CZMP notes that sections of the cycleway network have in the past been impacted by storm damage and it is expected that further damage is likely in the future. Sea-level rise will cause further shoreline recission, and storm damage from wave action.

There are eleven locations identified that are most at risk in the CZMP and are summarised below in table 12.5.6.5. The assessment identified four locations that are likely to increase to high risk by 2050 at Bulli, Towradgi, North Beach, and City Beach.



Table 12.5.6.5 - Pathway Coastal Hazard Assessment

Location and Asset	Risk Now	Risk at 2050	Risk at 2100
Bulli Beach; North Beach; and City Beach cycleway / shared path	Medium	High	Extreme
Towradgi Beach cycleway / shared path	Medium	High	High
McCauley Beach; Sandon Point; Woonona Beach; Bellambi Beach (west of Lagoon and along Dobbie and Murray Avenue); and Bellambi Point Beach cycleway / shared path	Medium	Medium	High
Corrimal cycleway (across and next to Towradgi Lagoon)	Medium	Medium	High
Bellambi Beach cycleway / shared path (Nth of Bellambi Gully entrance)	Low	Medium	Medium

Investigation is recommended to identify long-term management options to manage the impacts from sealevel rise and storms at these locations. Where feasible, planning for retreat and relocation should be considered as a renewal or upgrade (where incorporating widening or higher quality materials), and where insufficient land is available, costal erosion works considered.

12.5.7 Future Investments

12.5.7.1 Network Expansion and Upgrade Plans

An average of \$4.5M has been included across the 10-year period of the plan for expansion and upgrade of the network. This includes the provision of new pathways where there is currently no path, and upgrades include widening and/or material upgrades such as replacing concrete with pavers in town centres. Upgrades include a change of use of a footpath to a shared path, necessitating additional width to accommodate cyclists.

The amount invested varies from year to year, largely in response to the forecast value of renewal work undertaken in the respective years. The length of pathway delivered for this investment will vary according to the materials used and width of path. Standard residential grade 1.5m wide concrete footpaths, being the most common and cost-effective construction would equate to approximately 10km of pathway. However, town centres using full-width stone paving, would achieve in the order of 2km of upgraded pathway for the same investment (excluding street furniture and ancillary landscape and traffic treatments).

The locations of proposed new pathways are recommended based on a review of risk and benefits. The final list is reviewed by elected Council prior to placing on public exhibition for community feedback as part of the annual Infrastructure Delivery Program.

Most of the current pathway network is constructed from steel reinforced concrete. To meet the levels of service above in a sustainable way, we will investigate a range of material options and suitability for providing pathways. We will also review the scope of footpath upgrades in Town Centre locations to ensure material specification considers life cycle costs. The material review will include life cycle costing, forecast demand and site-specific environmental assessment. Materials under consideration include:

- Concrete unreinforced, permeable, fibre reinforced
- Concrete and paving
- Asphalt
- Decomposed Grass / vegetation
- Verge gardens





We have analysed the value of pathways dedicated to Council in conjunction with subdivision and development frontage works over recent years and estimate of \$1,000,000 per annum has been included in the plan.

The West Dapto Contributions plan makes provision for new active transport linkages that will form part of the pathway network. An averaged annualised amount has been included in the future investments estimates from 2029 and beyond. The timing is based on estimated rate of development. These proposed works are 100% apportioned to the plan and do not require additional contribution. The following active transport pathways as shown in Table 12.5.7.1 are forecast for acquisition in the plan:

Table 12.5.7.1 - Active Pathways in West Dapto Contributions Plan

Ref	Infrastructure Item	Qty	Cost (exc. land)	Annual depreciation expense	Annual maintenance cost	Indicative Timing
TR32	Shared use paths - Stage 1-2	18.33km	\$5,687,215	56,870	44,360	2018/19 – 2047/48
TR33	Shared use paths - Stage 3	9.51km	\$2,956,625	29,560	23,060	2021/22 – 2059/60
TR34	Shared use paths - Stage 4	9.51km	\$2,956,625	29,560	23,060	2035/36 – 2059/60
TR35	Shared use paths - Stage 5	4.65km	\$1,444,881	14,450	11,270	2031/32 – 2059/60
TR36	Shared use path bridge crossings	5	\$1,636,569	16,370	12,765	2023/24 – 2059/60

It should be noted that expanding the pathway network creates associated on-going maintenance and depreciation for the life of the pathway. The figure below indicates the costs associated with concrete pathway construction:





12.5.7.2 Maintenance Treatments

Footpaths are typically long-life assets that provide a high level of service to the community. There are limited proactive maintenance treatments required, however repairs works are required to repair defects in footpaths to maintain safe and functional infrastructure. Defects typically result from unauthorised vehicle access, inadequate expansion joints, erosion or settlement, and tree roots.

Maintenance treatments for concrete include footpath grinding where practical. This method reduces wastage of materials as the existing footpath remains in-situ and the displacement is ground flush to restore a safe and functional footpath. This treatment has a much lower whole of life cost than slab replacement.

We have been trialling a range of treatments where tree roots have lifted the path. The use of a permeable and flexible rubber in-fill, like permeable playground softfall, minimises the need to trim or remove tree roots. The material also enable water to infiltrate into the rootzone, minimising damage to the tree. As the tree grows, the surface will deform around the root and still maintain a serviceable path. An example of a pathway prior to using this treatment is shown in Image 12.5.7.2 (a) and after treatment in Image 12.5.7.2 (b) below. Alternative treatments to concrete include asphaltic concrete (reduced depth required) and bridging roots with at-grade boardwalks.



Image 12.5.7.2 (a) - Before Rubberised Treatment





Image 12.5.7.2 (b) - After Rubberised Treatment

The treatments around trees help us to maintain the urban tree canopy and reduce the heat island impact of hard infrastructure like buildings, roads and pathways. It should be noted however, that the treatment has a relatively high life-cycle cost as the materials are substantially more expensive up-front and have a significantly lower expected useful life (by a factor of 10+). In some locations where the tree roots are causing damage to other surrounding infrastructure and/or severely limit the functionality of the pathway, removal of the tree may be required.

12.5.7.3 Renewal Requirements

Where there is limited observed condition data, the useful life drives the planned renewal profile. The expiry date is a simple calculation of the commission date plus the useful life. Commission dates are assumed for many old assets and was typically allocated on bulk, based on estimates of the associated subdivision age. This resulted in several peaks as commissioning estimates were typically associated with change in decades (e.g. 1950, 1960, etc). This results in mass grouping of renewals at the end of useful life. This is not practical from a funding or implementation perspective. Minor adjustments were made to the useful life within a +/- 5 years of the peak to smooth out the renewal profile. The renewal profile will be refined over time as observations of condition and assessments of remaining useful life are undertaken on a routine basis.

The average calculated renewal investment per year over the period of this plan is \$3.72M. The following ten-year period from 2036-2045 will increase to \$4M per year, and as more footpaths start reaching the end of service life in the 2046-55 period, the annual amount increases to \$9.2M.

A detailed visual condition audit of pathways is planned in the next 18 months and will improve the forecast of remaining useful life of the network and the associated renewal requirements.

Many of the concrete pathways requiring renewal is not a result of material failure or wear-and-tear, the renewal is generated by an impact from an external factor, such as tree roots, erosion, and/or loading from vehicles. We estimate the renewals generated by impacts from external factors to be \$2M per year.

12.5.7.4 Decommissioning Planning

There are currently no pathways identified for decommissioning (removal and not replaced) during the period of this plan. Paths that are demolished and reconstructed on a different alignment, but effectively providing the same connection, are considered as a renewal and not a decommissioning.



12.5.7.5 Future investment plan - Pathways

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	4,605,701	4,677,525	4,746,997	4,791,954	4,815,358	4,872,508	4,929,657	4,994,971	5,060,284	5,125,598	5,190,912
Required Maintenance works	3,300,180	3,351,644	3,401,424	3,433,638	3,450,408	3,491,358	3,532,308	3,579,108	3,625,908	3,672,708	3,719,508
Operating expenditure	7,905,881	8,029,169	8,148,421	8,225,592	8,265,766	8,363,866	8,461,965	8,574,079	8,686,192	8,798,306	8,910,420
Renewal works	3,395,000	2,865,000	4,385,000	4,470,000	4,300,000	4,300,000	4,300,000	4,300,000	4,300,000	4,300,000	4,300,000
Upgrade works^	512,000	736,900	5,170,000	2,500,000	1,000,000	-	-	-	-	-	-
Expansion works	25,000	1	1	1	1	550,000	550,000	550,000	550,000	550,000	550,000
New works	5,573,000	3,768,000	2,975,000	3,150,000	1,150,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
New works - dedications #	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Capital expenditure	9,505,000	7,369,900	12,530,000	10,120,000	6,450,000	9,850,000	9,850,000	9,850,000	9,850,000	9,850,000	9,850,000
Totals	17,410,881	15,399,069	20,678,421	18,345,592	14,715,766	18,213,866	18,311,965	18,424,079	18,536,192	18,648,306	18,760,420
Estimated Required Renewals	2,171,690	2,395,063	5,177,817	6,432,339	6,527,815	4,596,346	2,234,155	2,688,794	3,132,929	2,431,881	4,947,129
Planned renewal % of required	180%	150%	185%	108%	81%	94%	192%	160%	137%	177%	87%

^Upgrade works are typically associated with CBD, Village and Town Centre public domain upgrades – 5% of the project cost is estimated as street furniture and included in the Street Furniture plan.

#This is the average annual value of pathways dedicated in conjunction with subdivision and development frontage work



12.5.8 Pathway Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
5.1	Condition Audit	Complete comprehensive condition audit to inform the required renewal and maintenance expenditure.	MISP	2025
5.2	Useful life assessment	The estimates in the plan are based on an adjusted useful estimate for both concrete and stone pavers increasing from 80 years to 100 years. This is based on the serviceability of the material. It is recommended to update the asset register to reflect this change. Maintenance actions may be required over the life of the asset, however there are examples of both materials providing more than 100years service in other parts of Australia and Internationally.	MISP	2025
5.3	Useful life assessment – Town Centres	Town Centre pathway useful life is often driven by the masterplan objectives more than the effective life of the material. The redundancy of the existing material should be factored into the remaining useful life assessment where there is an adopted masterplan and a likelihood to implement the design.	MISP	2027
5.4	New pathways	There is a significant investment proposed during the period of this plan. Consider community engagement on prioritised list of locations.	MISP	2026
5.5	Accessibility	Develop a strategy for improving accessibility of footpaths and shared paths to meet the objectives of the Disability Inclusion Action Plan	MISP & MCCE	2026
5.6	Proactive Maintenance Planning	Continue investigation and trial of Intelligent Defect Monitoring to utilise smart technology for identifying defects and linking to work orders based on a prioritisation model.	MISP & CD & IO	2025
5.5	CBD Public Domain	Approach change on how the CBD public domain new investment will be managed. It often better to have the developments within the CBD construct the public domain to ensure that when they are working isn't impacting the new construction and their designs integrate with the public domain.	MISP	2025
5.6	Standardisation	Standard drawings will be prepared for all incidence where elements can affect the path such as trees and surrounding environments	MISP	2026
5.7	Path width	Standard approach reviewed to width and locations of path. An example may be rather than a 1.5m path both sides, a 2m path one side supports improved accessibility, reduces the urban heat island effect, and acts as a low order cyclepath.	MISP	2025

Asset Management Plan



12.6 Stormwater and Floodplain Management

This section of the asset plan details our stormwater and floodplain assets. This service seeks to implement a coordinated approach to managing the transport of stormwater flows within the urban environment and risk to life and property within the floodplain. We seek to manage the efficiency of the drainage systems for the management of runoff and develop risk management strategies to manage the risk of flooding. This service also includes the ongoing management and protection of prescribed dams and basins.

The assets provided under the stormwater and floodplain management service are intended to manage and effectively improve the movement of surface runoff; reduce risk associated with flooding and storms; reduce risk to the health and biodiversity of land and water including creeks, lakes, waterways, and oceans; and increase resilience to natural disasters and a changing climate to protect life, property, and the environment. We do this by improving the efficient conveyance of surface runoff created through most frequent rain events. Urban stormwater drainage systems are not designed to convey the large quantities of runoff generated by rare flood events. Rainfall events of very high intensity, generally overwhelm existing drainage systems and as a result, the runoff is mainly conveyed overland. The protection of waterways including beaches, lakes, lagoons is assisted through the provision of stormwater quality improvement devices such as gross pollutant traps and sediment basins.

The stormwater service includes:

- Preparation and Implementation of flood studies and floodplain risk management plans.
- · Flood mitigation works delivered within capital works program.
- Dam safety management.
- City and rural drainage water course maintenance.
- Construction and maintenance of stormwater pits,
- Construction and maintenance of pipes and detention basins.
- Development controls for stormwater quality and riparian vegetation management.
- Deliver construction, inspection, and maintenance of Water Quality Control Devices.
- Provide effective stormwater management programs and integrated stormwater management.
- Coordinated natural area restoration works inclusive of the stormwater levy funded riparian sites.

This is the second largest grouping of assets, accounting for one-third of the total value of infrastructure assets.

12.6.1 Profile

Community Strategic Plan Goal: Goal 1: We are a sustainable and climate resilient city

Service: Stormwater Services

The assets in this grouping support the Stormwater service. This service strategically plans for a coordinated approach to floodplain risk management and stormwater management including the protection of waterways, beaches, lakes, lagoons, and creeks. This service manages and maintains 835 kilometres of drainage and associated infrastructure assets across the city that aim to be safe, efficient, effective, and sustainable. The summary below excludes those assets controlled by entities other than Council.



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Asset Management Plans

12.6.2 Strategic priorities

The strategic planning for Stormwater and Floodplain infrastructure is part of the Floodplain Management framework. The floodplain risk management strategies and plans for each of the catchments across the Wollongong Local Government Area are the relevant informing strategies for this infrastructure network. The following Table 12.6.2 summarises the actions from the Floodplain Risk Management Plans and the West Dapto Contributions Plan with a relationship to bridges and an assessment of the direct impact:

Table 12.6.2 - Supporting Document Actions

Supporting Document	Action	Resource Impact
Floodplain Risk Management Plans	We currently have floodplain risk management plans covering most of the Wollongong local government area including Allans Creek (2024); Collin Creek (2014); Fairy and Cabbage Tree Creek (2024); Hewitts Creek (2002); Lake Illawarra (2012); Minnegang Creek (2004); Mullet Creek (2023); Towradgi Creek (2023); Wollongong City (2015). There are approximately 330 actions across the plans. The oldest plan dates to 2002, with reviews currently being undertaken to update to contemporary guidelines and practice. The actions cover flood, property, and response modifications.	Most items included in the plans have a preliminary estimate based on the information available and the cost of similar works. All estimates have been indexed to present values and now require review. Several projects were not provided with an estimated cost for construction as they were subject to feasibility study.
West Dapto Vision and Contribution Plan	To manage stormwater quantity and quality to acceptable levels, a multi treatment approach is proposed to detain and treat stormwater flows from urban development. The devices that have been selected to mitigate the expected pollutant loads and stormwater volumes are conscious of land take requirements, future maintenance requirements, and to ensure water quality that discharges into Lake Illawarra meet the prescribed targets. Infrastructure to be provided under this Plan includes: 54 Detention basins including wetlands. 54 Gross pollutant traps. Trunk drainage servicing 25M m².	The capital cost of the stormwater management infrastructure is funded through development contributions. The ongoing costs for operations, maintenance and renewal will be funded through general funds.



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Asset Management Plans

12.6.2.1 Future Impacts

The following future impacts outlined in table 12.6.2.1 were identified in the delivery stream report relating to stormwater and floodplain management infrastructure. The strategic response as it relates to assets, and the consequences of not funding the impact is summarised below.

Table 12.6.2.1 – Future Impacts – Stormwater and Floodplain

Future Impacts	Strategic Response	Consequences of Not Funding
Changes in State and Federal funding allocations for planning, investigation, and mitigation programs.	Council leverages several programs for the implementation of actions from floodplain risk management study and plans. In addition, we continue to look for funding opportunities to support enhanced resilience for infrastructure from hazards.	Lack of funding support from other levels of Government would have significant consequences on the provision of floodplain management infrastructure.
Anticipated climate and sea level changes.	We already factor climate and sea level changes into our floodplain risk management planning processes. This work will identify risks as part of the floodplain risk management study and potential options to mitigate risk as part of the floodplain risk management plan. We review the actions from all floodplain risk management plans and prioritise for implementation based on risk, anticipated benefits, and cost.	Not funding actions from floodplain risk management plans that aim to mitigate risk associated with climate and sea level rise will maintain the forecast risk profile in the floodplain management risk study.
Changes to Australian Rainfall and Runoff guidelines	Geoscience Australia will continue to review and update the Australian Rainfall and Runoff guidelines (ARR), the National source of information about hydrology used in flood estimation and catchment analysis, as data becomes available. As a results of updates to the ARR guidelines, we will need to review our flood studies to determine the impact of changes on our catchments. The 1987 ARR was superseded by ARR 2016, and updates in 2019.	Not funding a review of amendments to ARR updates will delay our understanding of impacts on catchments until the scheduled review of flood studies for each catchment. The NSW Government recommends a review of flood studies on a 5 yearly basis, or after a major flood under the Flood risk management manual.
Increased urbanisation - West Dapto.	Urbanisation impacts several factors considered as part of the flood plain risk management planning process. We consider the land use in the Local Environment Plan as part of the process.	The impacts of increased urbanisation are included in our planning for stormwater and floodplain infrastructure.
Changes to the Dam Safety Act 2015 or its administration.	Council manages several detention basin dams that meet the classification as dams under the Dam Safety Act. Our dams are primarily detention facilities that operate as part of our flood mitigation strategy. These dams detain water and help to control the discharge rate of run-off and reducing downstream flooding risk.	Consequences of not funding the required modifications derived from changes in the Act may result in a breach under legislation and penalties from the Regulator. It may also impact our risk profile.



Future Impacts	Strategic Response	Consequences of Not Funding
	Changes to the Act may increase our operational and/or capital funding requirements to respond to changes.	
This service is likely to be impacted by the impacts of climate change on rainfall intensity, temperature, and sea level rise.	We factor predicted changes into our floodplain risk management planning processes. We are seeing more frequent high intensity storms resulting in infrastructure and property damage. This is increasing pressure on implementing actions from floodplain risk management plans.	Not funding actions from floodplain risk management plans that aim to mitigate risk associated with climate and sea level rise will maintain the forecast risk profile in the floodplain management risk study. A reduction in community satisfaction with this service is also anticipated.
The growth in stormwater assets in West Dapto and continued priority identified from the community (biannual community survey).	The planning for West Dapto identifies stormwater and water quality infrastructure to support the increased population. The initial works are funded through development contributions; however the ongoing maintenance and renewal is funded through recurrent income. The proposed infrastructure network will be reviewed to identify opportunities to rationalise and simplify the network to reduce whole of life costs.	Not funding the operational, maintenance and renewal of stormwater assets in West Dapto will affect the functionality of the infrastructure and premature failure.
The Lake Illawarra Coastal Management Program (LICMP) will impact and partly guide this delivery stream.	The LICMP identifies several actions relating to improving water quality, planning and management arrangements, foreshore and bank erosion and inundation risks relating to stormwater infrastructure.	Risk and opportunities will not be identified.
Increase in demand for stormwater quality improvement devices (SQIDs)	Managing stormwater quality as part of planning policy will drive an increase in certain types of assets. These water quality assets typically require greater maintenance and operational work to ensure they are functional.	Water quality of receiving water bodies may be impacted by an increase in gross pollutants.
Increased number of residents moving to Wollongong not investigating flood affected lots.	Improved communication to new arrivals to Wollongong and existing residents on the details of flood effected properties.	Not funding supporting soft interventions such as communications/education

12.6.2.2 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications, as summarised below in Table 12.6.2.2, will create changes in demand that influences planning associated with stormwater infrastructure:



Table 12.6.2.2 – Future Demand for Stormwater Infrastructure

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	Areas of growth require new housing and stormwater networks to support development. Some existing stormwater infrastructure require upgrade to support the changes.	Most growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the stormwater management required to support the growth and the funding contributions from development towards the recommended infrastructure.	The West Dapto contribution plan identifies the infrastructure and funding required to meet the demand. This plan integrates the contributions plan forecasts. There are 54 detention basins and gross pollutant traps proposed in the plan. These devices increase operational and maintenance costs.
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may increase risk in areas impacted by flooding. This risk is associated with the increased number of people exposed to the hazard. The population density does not necessarily change the hazard or likelihood of flooding.	The draft Floodplain Risk Management Study and Plans for catchments to consider risk as part of the strategic framework for floodplain management across Wollongong. Increased public education programs recommended to inform the public about managing floodplains and capacity constraints of stormwater networks.	Any identified need to upgrade capacity of stormwater infrastructure is included in the floodplain risk management plan.
Management of stormwater and natural water courses on private property	Storm events have increased enquiries relating to natural water course maintenance on private property. Approximately 60% of water bodies across the LGA are managed by private owners or other Government agencies	Lack of appropriate maintenance on private property adjoining public land may result in increased siltation or transfer of debris.	Increased public education to increase awareness of the responsibility and actions for private landowners in managing infrastructure and natural water courses on their land. Consider monitoring of high-risk locations.	Stormwater and natural areas maintenance to manage infrastructure and natural water bodies on public land.



12.6.3 Asset Snapshot

Asset Register: Assets

Financial Reporting Group: Stormwater

Valuation Information: Last comprehensive valuation 2022

Asset Classification L3	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Sum of Current Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Dams & Basins	2	-	968,397	-	968,397
Dam Walls	73	73	53,489,189	822,175	31,406,573
Spillway	42	65	21,296,736	346,439	12,184,724
Weirs	41	75	2,053,202	28,908	906,301
End Structure					
Headwalls	3,284	84	9,830,182	121,809	5,202,249
Node	10	84	8,615	99	2,557
Riparian Assets					
Bank Support	290	69	52,969,265	801,382	30,439,159
Energy Dissipater	47	63	1,184,659	25,117	775,238
Flood Diversion Mound	12	160	2,660,079	35,203	2,410,521
Scour Protection	325	70	46,575,420	688,772	33,509,633
Stormwater Pipe					
Pipe Reline	334	84	8,128,518	99,424	7,922,380
Pipes & Culverts	32,906	100	1,412,218,170	14,123,969	751,531,370
Stormwater Pit	28,115	88	111,757,069	1,313,902	58,836,513
Surface Drain					
Channel Linings	248	70	91,556,360	1,472,340	37,981,837
Open Channels	27	83	282,549	3,326	197,106
Water Quality					
Access Ramps	39	71	3,098,607	42,383	2,948,178
Trash Rack	86	64	305,668	4,624	257,370
WQD	81	67	7,014,802	116,844	5,195,562
WSUD Area	18	55	1,939,233	34,509	1,402,334
			1,827,336,720	20,081,222	984,077,999



12.6.3.1 Components and attributes

Stormwater and floodplain assets are recognised under the following descriptions and components based on the complexity of the asset: Key components:

- Dams and Basins dam walls; spillway; weirs
- End structure converters: headwalls
- Riparian Assets bank support; energy dissipater; flood diversion mound; scour protection
- Stormwater pipes major culverts; pipe relines; pipes and culverts
- · Stormwater pits
- Surface drains channel linings; creek reach; open channels
- · Water Quality access ramps; trash rack; water quality device; water sensitive urban drainage area

12.6.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community. A review of the Stormwater Service identified that the management stormwater assets is critical. Declared dams are considered critical assets. Other critical assets are to be determined in association with floodplain risk management plans.

We manage many detention basins across the city that help reduce flood hazard. A small number of these are in a risk category to be classed as 'Declared Dams'. The general purpose of these structures is to withhold stormwater during flood events for a slower, more controlled release of water to minimise flooding effects downstream.

Under the NSW Dams Safety Act, 2015 and the NSW Dams Safety Regulation, 2019, as an owner of Declared Dams, we must regularly inspect and report on them to make sure they function safely. We publish our compliance reports on our website and provide a copy to Dams Safety NSW.

The location of declared dams under Council's control are:

- Barina Park Detention Basin
- Brokers Road Basin
- Foothills Road and Estate Retention Basins (3 in total)
- Gannet Avenue Basin
- Gunyah Park Basin
- Nyrang Park Basin

We identify hazard and risk categories as part of our floodplain management process. This information will be used to determine parts of the stormwater network that have a higher consequence when a blockage occurs. This will inform proactive inspection and maintenance programs.

12.6.3.3 Inspection and maintenance requirements

Inspections on the stormwater network are undertaken by a combination of visual inspections by council officers, and remote camera inspections by contract providers. To improve our understanding of the condition of pipes and pits within our network, camera inspections are proposed to increase to support decisions on the timing of relining. The current costs to inspect pipes is relatively high, however current progress towards developing AI to identify defects is expected to significantly reduce future costs of this service. Target maintenance activities are outlined in the technical levels of service at Section 12.6.5.2.





12.6.3.4 Depreciation and degradation curves

Stormwater and floodplain assets use a straight-line depreciation and degradation profile.

12.6.3.5 Useful Life Assessment

A review of useful life estimates of the stormwater assets was completed in 2022, based on the condition and age profile, useful life estimates from other Councils, and industry guidelines from the Institute of Public Works Engineers Australia. This analysis informed the adopted useful projection on newly created assets, and it is recommended to review all existing assets in service. Many of the assets in this category have a long life of 50 plus years. Concrete reinforced pipes and culverts, and brick culverts have been demonstrated to remain in service for well over 100 years internationally. The age of our infrastructure and experience operating this group of assets to end of life is still relatively undeveloped and has tended towards a conservative estimate of useful life. Drawing on the experience of international examples suggests we can expect to achieve a longer life out of many of our concrete assets.

Most of the premature failures observed in the stormwater asset group tends to be damage induced through natural disasters, failure in the backfill or bedding of pipes leading to pipe displacement, geotechnical instability and creep movements causing damage and displacement, and/or overloading of pipes typically associated with construction works. In coastal zones, we also see some examples of early failure due to the exposure to the highly corrosive environment. We rarely observe extensive pipe deterioration due to aging in a typical installation at this point. We estimate a required annual investment of \$3.5M into the renewal of assets that have reached end of life and experienced early failure based on recent observations.

We have been utilising pipe relining as a treatment to restore life to pipes that are in poor condition for several years. There are several benefits to lining pipes compared to excavation and replacement; including reduced material waste; cost saving; reduced impact and restoration cost of assets above the pipe; lower risks associated with trenching and ground instability; reduction in work time and inconvenience to the community.

Lining can also be used as a proactive treatment to extend the life of the existing concrete pipe. Liners are designed to Australian Standards with a design durability of a minimum of 50 years. The serviceability is expected to exceed the design life, however given the current technology has been in use for approximately 30 years, the whole of life durability has not been fully tested. Liners are designed to be structural, so the function of the concrete pipe will transition from primary structural support and conveyance of stormwater to a host for the liner. The current technology suggest at least two liners are conceivable within the concrete pipe.

It is recommended that we plan to reline our concrete pipes as a proactive approach at 80% of the useful life and again reline a second time once the liner has reached 80% of its useful life. The reason we intervene before we have reached 100% life is that the risk increases of needing to excavate sections or undertake other works to enable the liner to pass through the pipe increases along with the associated costs.

If we consider that the expected life of a concrete pipe in isolation is expected at 120 years, we will reline once it reaches 80% of consumed life (approximately 95 years of serviceable life). We expect the first liner to have a 75-year expected life and will be relined at 80% consumed life (i.e., 60 years). We then place the second liner, and at this point assume a run-to-fail scenario and to the service life of 75 years. This gives a new life of 230 years for the concrete pipe (95-year service, plus 60 years as host for reline one, and 75 years as host for reline 2) and 135 years for liner 1 (60 years of service + 75 years as host for liner 2). This approach will enable us to extract the maximum life out of the existing concrete pipe without having to dig up and replace the pipe. The proposed treatment is to recognise each liner as a new component and treat it as a capital upgrade as the treatment extends the service life of the original asset.

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We are reviewing lining only for concrete pipes with a diameter of at least 300mm. We will investigate options for relining pipes constructed of materials other than concrete. Pipes with a smaller diameter that 300mm will be assessed on a case-by-case basis to determine if the pipe is able to provide the required capacity.

These assumed useful life estimated will need to be monitored and updated over time for any variations as we continue our program of inspections. Should inspection and technical assessment indicate that the remaining useful life is longer or shorter than expected, adjustments will be required as part of the fair value review or comprehensive revaluation.

Table 12.6.3.5 (a) below summarises the recommended useful life for the stormwater and floodplain asset class.

Table 12.6.3.5 (a) - Recommended Useful Life Estimates of Assets

Asset Type	Asset component	Adopted Life
	Dam Walls	75
Dams & Basins	Spillway	65
	Weirs	75
End Structure	Converters	75
End Structure	Headwalls	85
	Bank Support	70
	Energy Dissipater	60
Riparian Assets	Creek Reach	50
	Flood Diversion Mound	75
	Scour Protection	65
	Pipes & Culverts	230
	Pipes (concrete <300mm)	80
	Pipes (steel)	60
	Pipes (Clay)	65
Stormwater Pipe	Pipes (PVC)	100
	Pipes & Culverts (>1.0m)	120
	Major Culverts	120
	Pipe Reline 1	135
	Pipe Reline 2	75
Stormwater Pit	Stormwater Pit	115
	Channel Linings	70
Surface Drain	Creek reach	50
	Open Channels	100
	Access Ramps	60
Water Ovelity	Trash Rack	65
Water Quality	WQD	70
	WSUD Area	55



The following Table 12.6.3.5 (b) provides an estimation of the change in annual depreciation, using the revised useful life estimates. The estimate forecasts a significant reduction of \$7.5million dollars but also extracts greater value out of the investment in the asset.

Table 12.6.3.5 (b) - Change in Annual depreciation after adjusting useful life estimates

Asset Type	Qty	Current Avg useful life (years)	Rev Avg Life	Revised Carrying Value at 30 June 2024	Revised annual dep	Current asset cost	Change in annual dep
Dams & Basins	137	72	76	43,069,287	942,762	69,645,229	-147,403
Dam Walls	63	73	77	29,576,022	618,313	47,487,353	-118,611
Spillway	34	65	69	12,525,750	300,491	20,228,545	-25,552
Weirs	40	75	79	967,515	23,958	1,929,331	-3,239
End Structure	3,037	84	91	4,602,989	94,926	8,632,963	-10,936
Riparian Assets	632	71	73	66,728,022	1,328,597	97,011,753	-114,451
Bank Support	276	70	74	30,334,486	674,562	49,360,534	-60,923
Energy Dissipater	46	62	68	839,030	17,632	1,126,874	-6,248
Flood Diversion Mound	12	160	83	2,329,089	33,207	2,526,580	-205
Scour Protection	298	70	73	33,225,416	603,197	43,997,765	-47,075
Stormwater Pipe	30,562	100	225	1,031,986,865	6,450,664	1,333,384,935	-6,906,984
Major Culverts	10	82	115	-	-	-	0
Pipe Reline	286	89	135	6,656,787	49,944	6,742,499	-25,878
Pipes & Culverts	30,266	100	225	1,025,330,078	6,400,720	1,326,642,436	-6,881,106
Stormwater Pit	26,109	89	115	64,838,323	906,039	104,231,199	-317,883
Surface Drain	257	73	77	45,968,823	1,157,135	87,429,932	-45,455
Channel Linings	242	72	76	45,775,569	1,154,446	87,161,042	-44,978
Open Channels	14	91	99	193,254	2,689	268,889	-477
Water Quality	190	65	70	8,242,865	146,742	10,323,207	-18,332
Access Ramps	26	68	74	2,114,371	29,843	2,219,896	-685
Trash Rack	76	64	69	151,058	2,661	191,860	-230
WQD	71	67	71	4,563,626	85,270	6,065,969	-13,547
WSUD Area	17	56	62	1,413,809	28,969	1,845,483	-3,870
Grand Total				1,265,437,174	11,026,865	1,710,659,217	-7,561,443



12.6.4 Roles and responsibilities

Service Manager: Manager Infrastructure Strategy and Planning

Role	Lifecycle	Function	Responsible	Activities
Service Management	Planning	Service Planning	Manager Infrastructure Strategy and Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery
	Operation	Service Operations	Manager Infrastructure Strategy and Planning	Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Infrastructure Strategy and Planning	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service Arrange establishment or termination of agreements (utilities)
Asset Management		Asset Planning	Manager Infrastructure Strategy and Planning	Complete condition and performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal planning
	Planning	Asset Data	Manager Infrastructure Strategy and Planning	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	Revaluation Unit rates Estimates Monitor expenditure
Project Delivery	Delivery	Project Sponsor	Director Infrastructure + Works	Approval of project plan Oversee business proposal Capital expenditure review (OLG)

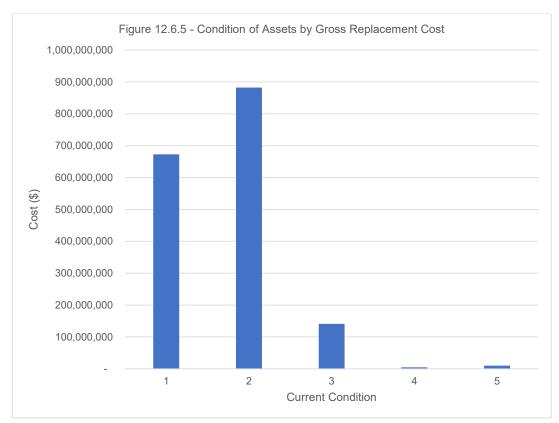


				Define the problem/need
		Asset Concept	Manager Infrastructure Strategy and Planning	Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
		Program Management	Manager Infrastructure Strategy and Planning	Oversee project as part of program Responsible for managing overall program costs, risks, progress
		Asset Design	Manager Project Delivery	Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process
		Asset Delivery	Manager Project Delivery	Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Oversee project commissioning and handover
	Maintenance	Asset Maintenance (Proactive)	Manager City Works Manager Open Space and Environmental Services	Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works
Maintenance and Operation Management	Wantenance	Asset Maintenance (Reactive)	Manager City Works Manager Open Space and Environmental Services	Incident response Incident control and triage Establish maintenance response procedures Manage funding claim records Undertake maintenance works
	Operation	Asset Operations	Manager City Works	Pit and pipe cleaning
		Asset Operations	Manager Infrastructure Strategy and Planning	Dam safety inspection and registration Camera inspections on pipe network Condition inspections NSW Government Emergency funding claim processing



12.6.5 Performance

Figure 12.6.5 below indicates the gross replacement value of assets within each condition rating. The condition profile has been generated based on a combination of observed condition (where available) and calculated condition based on the current consumption of the asset life and a straight-line degradation method. At this point, approximately 15% of assets have an observed condition rating.



12.6.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey does not specifically identify stormwater as part of the facility or direct service questions. A significant proportion of the stormwater network is integrated and connected to roadways, so we use the roads and pathway maintenance feedback as an indication of community satisfaction. The results of the community survey as reported in section 9.1.2 indicate that road and footpath maintenance are an area of focus for council.



12.6.5.2 Criteria for levels of service

Customer Levels of Service						
Key Performance Measure	Level of Service		Performance Measure	Target Performance		
Safety	Assets are desig standards	ned to current	Compliance with design guides and quality management process at time of construction	Designs reviewed to meet quality standards requirement prior to issue for implementation		
Risk based approach to			Asset managed and maintained in accordance with risk appetite	Audit conducted once every five years for Declared Dams assets		
TVION	Risk prioritisation of work		statement	Audit conducted on sample every 5 years other infrastructure		
Cleanliness	Stormwater pits cleaned to an ag level to manage blockage due to of sediments.	reed service risk of	Inspection and cleaning service standard in place.	Develop a standard for inspections and cleaning of stormwater pits and pipes		
Quantity	Floodplain risk management study and plan identifies opportunities for upgrade and expansion of the network		Upgrades and expansions with acceptable benefit cost ratio listed for consideration for a works program.	All identified proposals from adopted floodplain risk management plans listed and prioritised.		
Environment	A commitment to manage the qua from council-cor to improve/main environmental courses	lity of runoff trolled assets tain the	Monitor for contaminants and health indicators	Measures are implemented and maintained to reduce impacts in priority locations of physical and chemical stressors from Council managed sources.		
Technical Levels of Service						
	Level 1 condition assessment	Annual	75% compliance			
Condition Inspection	Level 2 condition 4-yearly assessment		75% compliance			
	Level 3 condition assessment As required if identified in a level 1 or 2 inspection		100% compliance			



Customer Levels of Service					
Key Performance Measure	Level of Service		Performance Measure	Target Performance	
Post event Inspections	Level 1 inspection of identified hotspots and reported priority locations	Within 2 weeks of incident	100% compliance	Target met 😊	
Cost	Implementatio n of efficient and cost- effective attributed to maintenance programs Implementatio Maintenance costs attributed to work orders		Assets with high maintenance costs identified for major maintenance program or renewal.		
Risk	Assets are maintained within a tolerable risk profile. Risk assessment of road infrastructure to be undertaken.		All assets managed in accordance with the infrastructure risk appetite statement		
	Asset	Percentage of identified renewals funded			
Performance	management actions and funding	Percentage of planned renewals completed			
	supports long- term sustainability	Percentage of identified proactive maintenance works completed			
Stormwater Assets			Actions	Inspection Schedule	
Engineered	Channels managed in accordance with vegetation management plans on Council owned land		Schedule identified hotspot and replant significant areas of exposed soil or with sparse growth	Annually in autumn	
vegetated open channels walls			Armor fill erosion areas with riprap or divert the runoff to a stable area	and as outlined in the maintenance standards	
			Inspect and repair down-slope of all energy dissipators and rap for erosion		
Swales and Open Stormwater	Assets are managed in accordance with blockage policy and maintenance		Remove obstructions, sediments or debris from swales and other open channels	Annually in autumn and as outlined in the maintenance	
Channels	standards		Repair any erosion of the lining	standards	

Asset Management Plan



Customer Levels of Service							
Key Performance Measure	Level of Service	Performance Measure	Target Performance				
		Remove woody vegetation growing through riprap					
		Repair any significant slumping side slopes					
		Repair riprap where underlying filter fabric or gravel is showing or if stones have dislodged					
	Assets are managed in	Remove accumulated sediments and debris at the inlet, outlet, or within the conduit	Annually and as				
Culverts	accordance with blockage policy and maintenance standards	Remove any major obstruction to flow	outlined in the maintenance standards				
	otania de	Repair any erosion damage at the culvert's inlet and outlet	Standards				
		Clear and remove accumulated sediments car park and along roadways	As outlined in the maintenance standards				
Roadways and Parking Areas	Assets are managed in accordance with blockage policy and maintenance	Sweep gutters to remove sediment, vegetation, and litter	In accordance with agreed service plan				
T diving 71 ods	standards	Grade unsealed road shoulders and remove accumulated sediments and vegetation preventing flow to table drains	As required				
		Inspect the embankments for settlement, slope erosion, piping, and slumping					
		Control woody vegetation as required					
Wetlands and	Assets are managed in	Inspect the outlet structure for broken seals, obstructed orifices, and blocked trash racks	Annually and as				
Detention Basins	accordance with maintenance standards	Remove and dispose of sediments and debris within the control structure	outlined in the maintenance standards				
		Repair any damage to trash racks or debris guards					
		Replace any dislodged stone in riprap spillways					
		Remove and dispose of accumulated sediments					
Infiltration	Assets are managed in	Clean the basin of debris, sediment, and hydrocarbons	As outlined in the				
Basins and Raingardens	accordance with maintenance standards	Provide for the removal and disposal of accumulated sediments within the basin	maintenance standards				



Customer Levels of Service							
Key Performance Measure	Level of Service	Performance Measure	Target Performance				
		Renew the basin media if it fails to drain within 72 hours after a 25mm rainfall event					
		Replant the basin if vegetation is sparse					
		Repair riprap where underlying filter fabric or gravel is showing or where stones have dislodged					
Gross Pollutant Trap	Device is inspected and maintained to provide effective service and able to remove	Enclosed device may require specialised equipment for inspection and maintenance	Inspect quarterly and post major				
Devices	pollutants from runoff	Follow the manufacturer's plan for cleaning of devices	rainfall event				
Water Courses							
	Banks of water courses on public land allowed to naturally	Inspect slopes and embankments of high priority locations and replant significant areas of exposed soil or with sparse growth					
Bank stability	shift – inspect for any stability hazards that may affect adjoining public areas	Armor fill erosion areas with riprap or divert the runoff to a stable area					
		Inspect and repair down-slope of all energy dissipators and rap for erosion					
		Remove accumulated sediments and debris at the inlet, outlet, or within the conduit					
Flow path	Flow path is clear of any major restrictions to flow	Remove any major obstruction to flow within public water courses	As outlined in the maintenance				
		Identify obstructions within high- risk water courses on private land	standards				
Inlets and headwalls	Inspect pipe and channel inlets into the water course identify scouring and erosion	Repair any erosion damage at the inlet and headwall					
		Check for scarping					
	Inspect for any hazards	Look for subsidence and sinkholes					
Adjoining Public	associated with natural	Check for longitudinal cracks					
Infrastructure	watercourse movement on adjoining infrastructure.	Listen for drumminess under concrete surfaces					
		Look for lateral movement of any adjoining walls					



Customer Levels of Service									
Key Performance Measure	Level of Service	Performance Measure	Target Performance						
Stormwater and	d On-site Detention Maintenance	е							
Discharge Control Pit									
Blockage	Inspect and remove any blockage of orifice, trash screen, grates, weir, and/or valves	Remove blockages.	Six Monthly						
Orifice plate	Check attachment of orifice plate to wall of pit (ensure no gaps exist)	Remove the grate and screen. Ensure orifice plate is mounted securely, tighten fixings if required and seal any gaps which are present.	Annually						
Valve	Check flap valve operation and attachment	Ensure flap valve moves freely and remove any blockages or debris	Annually						
Walls	Inspect Discharge control pit walls (internal and external, if appropriate) for cracks or spalling	Remove the grate to inspect the walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.	Annually						
Sump	Inspect Discharge Control Pit sump and remove any sediment/sludge	Remove the grate and screen. Remove sediment/sludge build up and check orifice and flap valve are clear.	Six Monthly						
	Inspect outlet pipe and remove	Remove the grate and screen. Ventilate underground storage if present. Check orifice and remove							
Outlet	any blockage	any blockages in outlet pipe. Flush outlet pipe to confirm it drains freely. Check for sludge/debris on upstream side of return line.	Six Monthly						
Steps	Check step irons for corrosion and fixing	Remove grate. Examine step irons and repair any corrosion or damage or replace step if necessary.	Annually						
Above Ground	Storage Area								
	Inspect the return pit and remove any sediment/sludge in pit	Remove grate and screen. Remove sediment/sludge build up.	Six Monthly						
Pit	Inspect internal walls of return pit (and external, if appropriate) for cracks or spalling	Remove grate to inspect internal walls. Repair as required. Clear vegetation from external walls if necessary and repair as required.	Annually						
Grate	Inspect and remove any debris/litter/mulch etc. blocking grates of return pit	Remove blockages from grate and check if pit blocked.	Six Monthly						



Customer Levels of Service								
Key Performance Measure	Level of Service	Performance Measure	Target Performance					
Storage	Inspect storage areas and remove debris/litter/mulch etc. likely to block screens/grates	Remove debris and floatable material, i.e., pine bark mulch, likely to be carried to grates.	Six Monthly					
Subsidence	Inspect storages for subsidence near pits	Check along drainage lines and at pits for subsidence likely to indicate leakages	Annually					
Signs	Inspect On Site Detention Warning Signage	Check On Site Detention (OSD) Warning signage and ensure that it is fixed securely to wall, not faded, deteriorated, or missing and is clearly visible. Replace as necessary or reposition to a clearly	Annually					
		visible location if vegetation growth has obscured.						
Dam Area								
	Activities identified in Dam Safety Management Plan	Complete activities as specified in the Dam Safety Management Plan (DSMP)	As outlined in the DSMP					
General								
Inspect gutters	Gutters are clear of	Remove any leaves or debris and sludge from gutters of building and flush downpipes of						
of building and remove any debris/sludge	accumulated debris to prevent roof water overflow into the building	building to remove any blockages. Pits downstream of downpipes to be cleaned of flushed debris.	Annually					
Inspect pits and trench drains on site and remove debris/litter/ sludge	Pits and grates are clear and flowing to prevent surface flow entering building	Remove grate. Remove any debris/litter/sludge from within pits.	Six Monthly					

12.6.5.3 Stormwater Asset Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact stormwater infrastructure are summarised in table 12.6.5.3 below:



Table 12.6.5.3 - Stormwater Hazard Exposur2

Hazard	Risk Description	Likelihood	Conseq.	Risk
Flood (Lake and Flash)	Heavy rainfall causes excessive localised flooding with minimal warning time.	Likely	Major	Extreme
Severe Storm/ Storm Surge	Severe storm with accompanying lightning, hail, damaging winds, and/or rain that causes severe damage and/or localised flooding (includes tornado and waterspout) and coastal erosion.	Likely	Major	Extreme
Major Structural Collapse	Failure of a major culvert or bridge structure with or without warning owing to structural failure or because of external/internal events or other hazards/incidents.	Rare	Major	High
Earthquake	Earthquake of significant strength (> Magnitude 7) that results in localised or widespread damage.	Rare	Major	High
Landslip / Mudflow / Rockfall	Landslip/mudflow/rockfall resulting in localised or widespread damage.	Likely	Moderate	High
Tsunami	A tsunami wave of magnitude that presents a risk to land and marine elements.	Rare	Major	High
Utilities Failure*	Major failure of essential utility for unreasonable periods of time because of a natural or human-caused occurrence (>24 hours).	Rare	Major	High
Dam Failure	Uncontrolled release from an engineered dam can result in a damaging amount of liquid impacting downstream communities.	Low	Moderate	Moderate

^{*}Water or sewer failure directly impacting stormwater network

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any stormwater and flood infrastructure impacted by the event.

12.6.5.4 Climate Hazards

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to stormwater are flooding, storms and sea-level rise. All contemporary flood studies used to inform stormwater design include climate risk factors associated with storm surges and sea level rise.

A summary of the actions from the CCAP and relation to stormwater are provide in the table 12.6.5.4 below:



Table 12.6.5.4 - Climate Change Action Plan Stormwater Actions

Priority Ac	tions	
Hazard	Climate Change Adaptation Plan Action	Stormwater Action
	Continue managing flood risk through floodplain risk management plans, incorporating climate predictions.	Review floodplain risk management study and plans for recommended work items on bridges.
Flooding	Continue and monitor maintenance schedules to reduce the risk of drainage network blockages.	Bridges to be inspected in accordance with agreed levels of service to identify blockages. Levels of service to be based on the criticality of the drainage network.
	Undertake community education to increase awareness of the dangers of floodwaters and precautions to minimise risks to people and property.	Education to include traversing bridges where the water level is approaching the soffit of the bridge.
	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure
Storms	Identify Council's business continuity plans (BCPs) and review and updated as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any changes to critical assets will be listed in revisions of the asset management plan, and appropriate management plans developed.
Sea-level rise	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure. The current Wollongong Coastal Zone Management Plan 2017 (CZMP) identifies Windang Bridge with an inundation risk. This bridge is managed by the NSW Government. The CZMP also suggests part of Lawrence Hargrave Drive with risk and potentially elevating the road as a bridge. This road is managed by the NSW Government.
	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events.

Implementation of the above actions will assist in identifying vulnerable infrastructure to enable appropriate mitigation and response plans to be prepared.

12.6.5.5 Prevention, Preparedness, Response and Recovery

The Wollongong Community will continue to be impacted by flooding and severe storms. Council's stormwater and floodplain management infrastructure forms part of the preparedness and response network. The overall process for assessing the hazards to the community resulting in a significant emergency response is part of the functions of the Illawarra Local Emergency Management Committee. As noted in the above section, flood and severe storm were rated as extreme risks for the Illawarra area.



The responsibility for overseeing the planning for prevention, preparation, response and recovery to flood and major storms is the State Emergency Service (SES). The SES have prepared the Illawarra Flood Emergency Sub Plan that outlines the arrangements for emergency management of flooding in the Wollongong Local Government Area, in addition to Shellharbour and Kiama Local Government Areas.

As a key stakeholder in the process, Council's has a primary responsibility for management of flood prone land. Our flood risk management process follows the NSW Government *Flood risk management manual*.

The process involves the collection of data, preparation of a flood study, undertaking a flood risk management study, and completion of a flood risk management plan. This process is aligned to the vision for flood risk management in NSW:

Floodplains are strategically managed for the sustainable long-term benefit of the community and the environment, and to improve community resilience to floods

A summary of the prevention, preparedness, response, and recovery actions relating to stormwater and floodplain management infrastructure is provided in Table 12.6.5.5 below.

Table 12.6.5.5 – Stormwater Prevention, Preparedness, Response and Recovery Plan

Stage	Plan	Asset Impact
Prevention	Our floodplain risk management planning is one of the main prevention measures. It includes identifying flood hazard and determining options for appropriate land use planning. We have ten floodplain risk management plans in place that cover most of the local government area. Our process involves collaboration and engagement with the SES and community. Managing expectations on Council preventing impacts from flooding for properties within the floodplain area through public education and awareness programs.	The floodplain risk planning process will identify flood modification measures and likely costs to be considered in an asset management plan.
Preparedness	The NSW SES Illawarra Flood Emergency Sub Plan outlines the preparedness plan for flooding. Council's maintenance program supports the preparation of the stormwater network for emergency events.	Implementation of proactive and reactive maintenance to manage the functionality of the stormwater network. Public education programs relating to floodplain and stormwater management.
Response	Response to flooding emergencies is coordinated by the SES. The Illawarra Flood Emergency Sub Plan outlines the response plan. Council helps with road closures and reopening of roads at the request of the SES. We provide support with intelligence on dam safety and other significant council infrastructure. Council does not provide a direct emergency response for the protection and functionality of infrastructure and property.	Flooding and storms are a hazard that may cause damage to stormwater and floodplain management infrastructure. Provision of advice and monitoring of declared dams for overtopping risk.
Recovery	Council provides services for the removal of debris and waste from council	Check for damage to dams and other significant flood mitigation infrastructure.



infrastructure and land to mitiga	te health Increased maintenance and operating
hazards and mitigate on-going	risk. costs for the clean-up and removal of
	debris and waste from stormwater and
	floodplain infrastructure.

12.6.5.6 Legislative Requirements

- Roads Act 1993
- Environmental Planning & Assessment Act 1979
- Catchment Management Authorities Act 2003
- Fisheries Management Act 1994
- Threatened Species Conservation Act 1995
- Native Vegetation Act 2003
- Noxious Weeds Act 1993
- Biodiversity Act 2015
- NSW Dams Safety Act, 2015
- NSW Dams Safety Regulation, 2019
- NSW Reconstruction Authority Act 2022



12.6.6 Future Investments

12.6.6.1 New and Upgrade Plans

Table 12.6.6.1 below includes new and upgraded stormwater infrastructure that are listed in the West Dapto Vision and Development Contributions Plan. The stormwater infrastructure is identified as part of the demand and risk analysis associated with the population growth, and a review of the existing floodplain risk management plans and infrastructure provision. The timing of the works is driven by the rate of development, with the contribution plan providing indicative timing. The data and references are compiled using the following tables from the West Dapto Development Contribution Plan: table 17 and Schedule 4. The table includes bridges that are anticipated beyond the 10-year life of the plan; however, they are included for completeness.

Table 12.6.6.1 - West Dapto Developer Contribution Plan - Stormwater Infrastructure

Ref	Infrastructure Item	Cost of Land	Cost of Works	Apportion to Plan	Cost to Plan	Qty	Description	Indicative Timing	
Detent	Detention Basins								
SM01	Detention Basins (including Gross Pollutant Trap)	\$21,828,348	\$52,850,643	100%	\$74,678,990	54	Detention basins will temporarily store floodwater from upper catchment areas during floods, releasing the water at a controlled rate. This treatment reduces the peak flows and levels downstream of the basin sites. There are fifty-four detention basins to be constructed within the release area. Wetlands will also be provided within the detention basin to provide secondary treatment to the stormwater prior to it flowing out of the detention basin. Gross pollutant trap (GPT) devices are to be provided at the outlet to stormwater pipes leading to stormwater detention basins. These systems operate as a primary treatment to remove litter, vegetative matter, free oils and grease and coarse sediment prior to discharge to downstream treatment devices. It is envisaging each detention basin will contain one GPT.	2020/21 - 2059/60	
Enhan	ced Storage Are	as	I	ı					





Ref	Infrastructure Item	Cost of Land	Cost of Works	Apportion to Plan	Cost to Plan	Qty	Description	Indicative Timing
SM02	Forest Creek	\$360,000	\$5,697,737	100%	\$6,057,737	12ha	There are five proposed enhanced storage areas. Each will be on-line and confined to land zoned for	2026/27 – 2030/31
SM03	Robins Creek	\$270,000	\$3,798,491	100%	\$4,068,492	9ha	riparian corridor. The design will involve embankments across the floodplain to the tops of the	2036/37 – 2040/41
SM04	Reed Creek	\$315,000	\$3,165,409	100%	\$3,480,410	10.5h a	banks of the existing low flow channel, so that the ecological connectivity of the low flow channel and	2036/37 – 2040/41
SM05	Mullet Creek	\$420,000	\$4,431,573	100%	\$4,851,573	14ha	its habitat would not be comprised.	2041/42 – 2045/46
SM06	Duck Creek	\$570,000	\$7,596,983	100%	\$8,166,983	19ha		2046/47 – 2050/51
Trunk	Drainage							
SM07	Trunk Drainage	\$ -	\$26,851,005	100%	\$26,851,005	2,500 ha	Trunk drainage will be provided to deliver stormwater between development areas and receiving waters where catchments exceed fifteen hectares.	2020/11 - 2059/60
	Total	\$23,763,348	\$104,391,84 1		\$128,155,19 0			

The number of small detention basins and gross pollutant traps should be reviewed to determine if it is feasible to consolidate stormwater management to reduce long-term operational and maintenance costs.



12.6.6.2 Floodplain Risk Management Plans

The adopted floodplain risk management plans identify flood control measures to be consider based on priority to the relative catchment. The high priority actions total over \$200m in works (adjusted to present value). It is noted that Floodplain Risk Management Plans are being reviewed in some catchments and the list of actions will be subsequently revised as plans are adopted by Council.

There is currently no formal funding strategy to implement all actions from floodplain risk management plans. Council typically leverages funding with supporting NSW Government grants. Applications are assessed on merit-basis under the Floodplain Management Grant program administered by NSW Environment and Heritage. A recommended action in the improvement plan is to revise and reprioritise actions and develop an appropriate implementation plan and funding strategy for the high priority works.

12.6.6.3 Lake Illawarra Coastal Management Program 2020-2030

The adopted Lake Illawarra Coastal Management Program identifies several actions relating to provision of new and upgraded infrastructure, renewal and maintenance of existing assets and potential decommissioning of underperforming assets to improve water quality in the Lake. The plan outlines indicative costs as of 2020 for the items. The actions within this site-specific plan need to be considered in the broader context of the Wollongong Local Government Area.

12.6.6.4 Decommissioning and Disposal Planning

Where infrastructure is no longer meeting the required level of service, we may look at decommissioning the asset. Unforeseen decommissioning may result from impacts of natural disaster.

There are currently no assets forecasted for decommissioning in the stormwater and floodplain management asst group.

12.6.6.5 Renewal Works

Many of the stormwater and floodplain assets have a long-life and most end-of-life renewal treatments are anticipated beyond the period of this asset plan. However, we anticipate renewal of stormwater and floodplain infrastructure that has experienced accelerated deterioration due to damage or unexpected failures.

We investigate options to rehabilitate or modify existing assets to reduce the cost of renewals and provide a similar service capacity as the original asset. An example of this is pipe relining. We aim to utilise the existing structure of the pipe and place an internal liner where:

- Failure of the pipe backfill material resulting in a displacement of the pipe (poor compaction);
- · Unstable geotechnical conditions;
- Aggressive ground conditions (corrosive environments);
- Unsealed penetrations into the pipe;
- Minor to moderate pipe cracking; and
- Scour of the pipe invert.

Pipe relining is a more cost-effective and less disruptive method to return the pipe to an acceptable service life than complete replacement of the pipe. This treatment also generates less wastage and resource usage



as we can reuse the existing pipe. Relining of pipes is not always feasible and depending on the severity of the current defect in the pipe.

Based on the current information available, we anticipate a required annual renewal expenditure of \$3,500,000 across the stormwater and floodplain management assets. We only look to intervene with a renewal treatment for pipes where the overall grade has reached a condition 4 or 5 or localised failures have occurred. Minor repairs to sections of pipe using a liner or patches may also be undertaken as a maintenance treatment.

12.6.6.6 Renewal Ratio

The Office of Local Government has set a *Buildings and infrastructure renewals ratio* as part of the requirements for Local Government to report on as part of its annual financial statements. The ratio is the value of completed *asset renewals*, divided by the *Depreciation, amortisation, and impairment*. The benchmark is >100%.

The concept of the *Buildings and infrastructure renewals ratio* is to demonstrate that the investment into renewing infrastructure is keeping pace with the rate at which it is depreciating. However, the basis of the indicator is not reliable for a group of assets in the early part of the asset life cycle for long life assets where a straight-line depreciation method is used. Long life assets such as stormwater assets, require relatively little renewal expenditure for many years, however the depreciation expense using a straight-line method annualises the amount depreciated over the life of the asset. As a result, a ration of renewal expenditure to depreciation is not a good indicator of infrastructure sustainability for this class of assets.

Having the ability to fund and complete the required renewals as and when they fall due is a better indicator for these assets.

The *Buildings and infrastructure renewals ratio* is better suited to asset groups where there is a better distribution of age, and the assets have a shorter (<50 years) useful life.



12.6.6.7 Future investment plan – Stormwater and Floodplain Management

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	11,026,865	11,038,239	11,038,239	11,038,239	11,038,239	11,038,239	11,038,239	11,038,239	11,038,239	11,038,239	11,038,239
Required Maintenance works	7,207,309	7,214,743	7,222,282	7,230,556	7,241,448	7,258,815	7,276,182	7,294,506	7,313,309	7,340,248	7,369,581
Operating expenditure	18,234,174	18,252,982	18,260,521	18,268,795	18,279,687	18,297,054	18,314,421	18,332,745	18,351,548	18,378,487	18,407,820
Renewal works	5,342,000	5,455,000	3,245,000	3,000,000	3,020,000	1,040,000	1,040,000	1,040,000	1,040,000	1,040,000	1,040,000
Upgrade works	2,830,000	655,000	510,000	1,600,000	1,130,000	-	-	-	-	-	-
Expansion works	-	-	-	-	-	135,000	135,000	135,000	135,000	135,000	135,000
Voluntary Purchase Scheme	-	-	-	-	-	400,000	400,000	400,000	400,000	400,000	400,000
New works	1,770,000	1,555,000	430,000	1,800,000	3,050,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000
Capital expenditure	9,942,000	7,665,000	4,185,000	6,400,000	7,200,000	5,575,000	5,575,000	5,575,000	5,575,000	5,575,000	5,575,000
Totals	28,176,174	25,917,982	22,445,521	24,668,795	25,479,687	23,872,054	23,889,421	23,907,745	23,926,548	23,953,487	23,982,820
Estimated Required Renewals	3,500,000	3,500,000	3,500,000	3,581,330	3,500,000	3,500,000	3,500,000	3,625,599	3,513,979	3,500,000	3,500,000
Planned renewal as a % of estimated required	233%	175%	107%	128%	119%	30%	30%	29%	30%	30%	30%

Note: the estimated required annual renewal funding is \$3,500,000 based on a review of prior expenditure. This is to fund the renewal of premature infrastructure failures. It is recommended to reallocate the required funding from new works to renewal works from the 2029/2030 – 2034/25 years. It is also noted that funding opportunities for implementation of additional floodplain initiatives are being explored, which may result in the introduction of projects in later years.



12.6.7 Stormwater and Floodplain Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
6.1	Stormwater Strategy	Develop an overarching stormwater and floodplain strategy that outlines: Management of natural watercourses; Blockage policy; Modelling parameters; Assumptions on sea-level rise; Stormwater design parameters (for new infrastructure).	MISP	2026
6.2	Floodplain Risk Management Plan Actions	Review and reprioritise actions. Formulate an implementation plan and funding strategy for the revised program of high priority projects. Ensure actions are able to funded through LTFP funds and grant funding.	MISP	2025
6.3	Asset description	Standardise the approach and convention for describing assets for consistency. Develop a data dictionary, validate, and update existing data.	MISP	2025
6.4	Criticality	Use risk analysis to assign a criticality to assets to inform priority for maintenance and renewal planning	MISP	2025
6.5	West Dapto Contribution Plan	The number of small detention basins and gross pollutant traps should be reviewed to determine if it is feasible to consolidate stormwater management to reduce long-term operational and maintenance costs.	MCS & MISP	2028
6.6	Adjust useful life of assets	The plan identifies the opportunity to revise the useful life to extract maximum value from the assets.	MISP	2025
6.7	Review relining	Investigate relining of pipes other than concrete	MISP	2027
6.8	Service standards	Develop a service standard for proactive maintenance and operational actions to keep council stormwater and floodplain infrastructure functional and to manage resources based on risk.	MISP	2026
6.9	Water course management guidelines	Prepare a guideline to assist private property owners in understanding inspections and triggers for managing watercourse on their land. Also provide guidance for adjoining landowners on roles and responsibilities.	MISP	2027
6.10	Asset Register	Improve accuracy and completeness of the Asset Inventory Stocktake Dimensions Attributes Spatial representation	MISP	2025



Item	Issue	Description	Responsible	Timing
6.11	Asset Register	Review Asset Classification structure and attribute information contained within the asset records	MISP	2025
6.12	Asset Condition	Obtain asset condition information on minor stormwater classifications (riparian assets, WQD, etc) to improve AM planning and UL estimates	MISP	2027
6.13	Asset Condition	Review delivery strategy for stormwater pit, pipe, and culvert CCTV inspections to increase quantum inspected p.a. and minimise costs. Review the application of artificial intelligence to improve the monitoring function.	MISP	2026
6.14	Asset Governance	Further development data manuals and processes to improve control and asset data and asset accounting activities	MISP	2026
6.15	Process efficiency	Improvements to efficiency of existing processes through greater utilisation of the EMS and leveraging new technologies such as machine learning.	MISP	2028
6.16	Flood Intelligence & Asset Performance	Water level, blockage, and other monitoring to improve intelligence and optimise delivery of services.	MISP	2028
6.17	Works/Activity Cost	Improve the understanding of the cost of relevant work activities though improved system utilisation, activity-based cost tracking and budget forecasting.	MISP	2026
6.18	Works Prioritisation	Review and adjustments to current prioritisation practices to identify and improve outcomes.	MISP	2027
6.19	Maintenance Plan	Formalise and document a vegetation, blockage and maintenance strategy including standards, target response times, and risk hierarchy for stormwater assets, supported by a prioritisation and triage guideline. Developed maintenance library, template work orders and safe work method statements	MISP	2028
6.20	Maintenance records and Maintenance History	Guidelines and training on correct system utilisation to support cost and work record collection and utilisation of the OneCouncil SAM module for long term financial planning and investment optimisation	MISP	2028
6.21	Cost, Schedule, and Utilisation performance Measures	Utilise EMS to improve visibility of cost, schedule, and resource utilisation performance measures	MISP	2026
6.22	Map stormwater infrastructure with ownership responsibilities	A detailed review is to be undertaken of all stormwater infrastructure between Council and private ownership. The results are to be online available for awareness. A proactive roles and responsibilities education and compliance program to be established.	MISP	2026
6.23	Stormwater/road reserve optimisation	Develop a plan to introduce/modify infrastructure and use the road environment infrastructure to optimise flood water conveyance and storage.	MISP	2028



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Asset Management Plans

12.7 Open Spaces

This section of the asset plan details our open space assets except for playgrounds. This group of assets focusses on the infrastructure provided to support a range of services. This section includes assets such as beach access, shelters, skate parks, outdoor exercise equipment, park furniture, and sport grounds. This section of the plan does not include the value of the land that provides the open space; however, it does include the maintenance of the park surface.

Open space assets contribute to and provide opportunities to support the health and wellbeing of our community through the provision of a variety of quality and accessible public places and opportunities for sport, play, leisure, recreation, learning and cultural activities in the community.

Wollongong maintains over 427 parks across the Local Government Areas. This includes a selection of parks and reserves including Mount Keira and Bald Hill Reserve, and hundreds of outdoor green spaces for our community to utilise and enjoy. These parks and reserves are used for active recreation, such as skate facilities, bike trails and outdoor fitness equipment, as well as leisure for picnics, gatherings and special occasions, or time outdoors.

12.7.1 Profile

Community Strategic Plan Goal: Goal 1: We are a sustainable and climate resilient city

Services: Natural Area Management

Goal: Goal 4: We have a healthy, respectful, and inclusive community

Services: Parks and Sports Fields, Botanic Gardens and Annexes, Memorial Gardens and Cemeteries, Russell Vale Golf Course

Our community is passionate about enjoying our outdoor spaces, the natural environment and recreation. As a result, we find several services that are supported by assets within open space. A summary profile of each service is provided below.

12.7.1.1 Parks and Sport Fields

This service operates over 427 parks (approximately 576ha), 85 sports grounds, 193 playing fields, 7 outdoor fitness stations, and 9 turf wickets, 40 synthetic cricket wickets 174 hardcourts, four synthetic fields (football and hockey), five skateparks, nine outdoor fitness stations and 11 baseball/softball diamonds across the Wollongong Local Government Area and includes Russell Vale Golf Course. Provision of passive access to community parks and playgrounds, and affordable and equitable access to sports fields and facilities. Twenty-two sports fields are licensed by volunteer or semi-professional sporting clubs.

Our community has a strong passion for sports and recreation activities, with many community members actively participating in a diverse range of organised and unstructured sporting pursuits. Council's Sportsgrounds and Sporting Facilities Strategy 2023-2027 outlines our approach and demand for this service and the assets required to support recreation.

12.7.1.2 Natural Areas

The service includes the management of approximately 286ha of natural areas, 46ha of asset protection zones under Council care and control, in addition to supporting 72 groups of bushcare, dunecare and fire-ready programs. Activities undertaken as part of this service include restoration of natural areas, weed





management, pest management, as well as the conservation of endangered ecological communities and threatened species. These activities are funded through a combination of Council's own operating funds, external grants, partnerships with other organisations and the support of community volunteers. Much of the work undertaken in natural areas is considered operational with limited financial assets.

12.7.1.3 Botanic Gardens

The Botanic Gardens (BG) plays a key role in delivering environmental education for the community, has significant historical links to the City's aboriginal heritage, built heritage and industrial history. The BG hosts a range of quality outdoor events, and maintains significant plant collections contributing to local, national, and international plant conservation objectives. Mount Keira Summit Park, Korrongalla and Puckeys Estate Nature Reserve are recognised as annexes to the main Botanic Gardens site.

12.7.1.4 Memorial Gardens and Cemeteries

This service provides memorial, burial, and funeral facilities at six sites across the Local Government Area including Wollongong Memorial Gardens, Helensburgh, Bulli, Scarborough, Wollongong, and Wollongong Lawn Cemetery, as well as the maintenance and care of Pioneer Cemeteries located at Kembla Grange, Berkeley and Garrawarra. This asset plan focusses on the maintenance and care of the open space assets in Memorial Gardens and Cemeteries as well as Pioneer Cemeteries.

12.7.1.5 Russell Vale Golf Course

The public golf course provides affordable access to a northern suburb's recreation facility. The 18-hole course appeals to a variety of age groups and is popular with the community and visitors.

12.7.2 Strategic priorities

A range of supporting documents guide and influence the investment into open space assets including:

- Sportsgrounds and Sporting Facilities Strategy 2023-2027 (primary document)
- Lake Illawarra Coastal Management Plan
- Plans of Management for Public Open Spaces
- Site masterplans for Beaton Park, Cringila Hills, Figtree Oval, Hill 60, King George V Park, Lindsay-Mayne Park, and Stuart Park.
- Beach Access and Foreshore Access Strategy
- Disability Inclusion Action Plan
- Biodiversity Strategy
- Riparian Corridor Management Study
- Wollongong Dune Management Strategy
- Urban Greening Strategy

A summary of the key actions from supporting documents relating to open space assets is provided in table 12.7.2:



Table 12.7.2 – Supporting Document Open Space Actions

Supporting	Action	Resource Impact
Supporting Document Sportsgrounds and Sporting Facilities Strategy 2023-2027	Renew and enhance sports facility infrastructure: a) Continue to invest in the programmed renewal of sports field lighting, incorporating LED lighting and innovative technologies. b) Work with stakeholders to plan for the renewal and provision of new hard court playing surfaces, including netball, tennis, and basketball facilities. c) Progress the staged realignment of the outdoor netball courts at Fred Finch Park, Berkeley. d) Maintain the provision of existing and future turf and synthetic cricket wickets to align with the sportsground hierarchy and needs of current and future participants. e) Incorporate operational, maintenance and whole of life costings in the renewal and provision of new sporting infrastructure. Manage sportsground capacity issues:	 a) Projects are included in the current infrastructure delivery program to upgrade sports field lighting. b) Completion of a review and priority assessment will enable a plan to be prepared showing lifecycle costs. c) 16 courts have been completed. d) Lifecycle costing should be prepared to understand the commitment required for turf wickets compared to synthetic wickets. e) More detailed understanding of actual costs will improve the modelling of whole of life costs. a) Multipurpose facilities to be planned.
	 a) Ensure equitable allocation of sportsgrounds while encouraging the development of multipurpose facilities. b) Strategically identify and activate under-utilised sports fields with lighting. c) Consider the Department of Planning, Industry and Environment, Synthetic Turf Study in Public Open Space Report 2021, and the findings of the NSW Chief Scientist & Engineer review of the Report during sports field planning and development. d) Prioritise the ongoing allocation of funding for the implementation of irrigation and drainage infrastructure at highly utilised sportsgrounds. Effectively plan and manage sportsground precincts: a) Ensure all lease and license agreements have a clearly defined and consistent approach to roles and responsibilities, with consideration to facility upgrades, renewal, maintenance, and operation. 	 b) This action will require identification of underutilised facilities to enable lighting upgrades to be planned. c) The guidelines to be considered in planning for facilities. d) Irrigation and drainage projects are included in the infrastructure delivery program. a) Clearly defined roles will enable better planning for life cycle costs. b) This is a consideration for the delivery phase of projects.



Supporting Document	Action	Resource Impact
	b) Ensure all new and renewed facilities are constructed in accordance with Council's Hierarchy system, Australian Standards, and sport specific facility guidelines.	
	Support safe and inclusive participation in sport: a) Provide natural and built shade at all sporting facilities. b) Ensure that perimeter control interventions are renewed or installed at key locations. c) Ensure all new sporting facilities and upgrades to existing, incorporate the principles of universal design and comply with access legislation including continuous accessible paths of travel to amenities, accessible parking, and seating.	 a) Consider locations for tree planting and/or built shade with projects. Investigate the opportunity for tree planting at priority locations. b) Funding required for the renewal or installation of perimeter control. Investigate the opportunity to coordinate with need for shade and use of trees to form part of the perimeter control. c) No change required – part of considerations of all new facilities.
	Strategically plan for the development of new sports facilities a) Continue planning for the provision of new sportsgrounds and sporting facilities in the West Dapto catchment area, with a focus on district level sportsgrounds. b) Work collaboratively with Local and State Sport Organisations and nearby LGA'S in the hierarchical planning of sports facilities in the Wollongong LGA c) Continue to plan and deliver the implementation of the Beaton Park Master Plan d) Engage the local Aboriginal community during the planning and development of new sports field sites to inform the design of culturally safe spaces and to appropriately incorporate local Aboriginal culture, history, and connection to place	 a) The West Dapto developer contribution plan outlines the high-level details on the needs assessment and plan to provide services for the growth in population. Detailed studies are required to inform the design of future facilities. b) Hierarchy is an important factor in determining the level and mix of facility and asset to support the intended use. This work will have a significant impact on the lifecycle cost of the facility. c) Stages are to be considered for upgrade and renewal plans. d) The engagement and collaboration will help inform the scope and brief of future projects.
	Support female participation in sport a) Prioritise the renewal and provision of new facilities to better accommodate female participation in sport. b) Identify and pursue grant funding opportunities which encourage female participation in sport. Cater for emerging and unstructured sport and recreation pursuits: a) Provide opportunities for affordable exercise pursuits through the	a) Develop standards that support inclusive participation in sport. Prioritised sites should be informed by utilisation data. b) Grant funding will help leverage available funding and potentially bring forward completion of planned works. a) There are currently 9 outdoor exercise areas provided across the local government area. Lifecycle



Supporting	Action	Resource Impact
Document	***	·
	construction and renewal of outdoor exercise equipment and outdoor	costs need to be considered for the provision of new infrastructure.
	'ninja warrior' style obstacle courses.b) Provide additional opportunities for affordable unstructured recreation	b) Lifecycle costs need to be considered for the provision of new infrastructure.
	through the construction of multipurpose hard courts, half-courts and rebound walls.	c) Increasing utilisation of existing assets extracts value from the investment in infrastructure
	c) Repurpose under-utilised hard courts to better cater for a wider variety of sporting and active recreation pursuits.	d) The support for parkland bike trails increases the demand on operational budgets to maintain he facility.
	d) Continue to collaborate with the community on the development and maintenance of parkland bike trails.	e) Potential increase in demand for supporting infrastructure and increase in current service levels.
	e) Provide access to sportsgrounds and facilities for unstructured and/or emerging sports, including but not limited to disc golf, ultimate frisbee	f) The current infrastructure delivery program includes provision of funding to progress the planning for these skate facilities.
	and parkour.f) Progress the planning and development of the Wollongong City Centre, Northern Suburbs and Port Kembla skate facilities.	g) The current infrastructure delivery program includes provision of funding to progress the planning for future facilities. Lifecycle costs should be included in the
	g) Explore suitable locations for the installation of skate features, modular pump tracks and mobile skate facilities.	considerations for provision of facilities. h) Service standards and lifecycle costs need to be considered for the
	h) Plan for the provision of off-beach outdoor volleyball opportunities at key locations across the city	provision of outdoor volleyball facilities
	Strengthen partnerships with clubs and associations and leverage from effective collaboration: a) Review and consider private and	a) Partnership models may reduce the cost-of-service provision to the community through a shared and/or user pay model. The considerations
	public partnership ventures to assist in the development of sporting infrastructure in accordance with relevant legislation requirements.	will need to outline the funding arrangements, with an understanding of lifecycle costs. b) Service standards should be
	b) Ensure regional facilities meet the required standards to host major regional, state, or national level competitions, events and/or training.	developed to ensure the requirements are clearly articulated so that an expenditure and funding model can be developed.
	c) Explore partnerships with public and private education providers and school Infrastructure NSW to explore shared-use opportunities.	c) Shared use of facilities has potential to reduce the demand and over utilisation of open space assets and reduce the overall lifecycle costs.
	d) Support sporting groups and associations to identify grant opportunities that align with this Strategy and relevant Plans of Management and provide guidance through the application process.	d) Aligning grants with strategies and plans of Council ensures that we are seeing investment into more sustainable infrastructure.



Supporting Document	Action	Resource Impact
	Transition sportsgrounds and sporting facilities towards greater climate resilience a) Implement Council's Urban Greening Strategy during the planning and construction of new facilities and precincts. b) Plan for the provision of resilient playing surfaces, through innovative processes including enhanced drainage, recycled water irrigation and where appropriate, synthetic or hybrid surfaces at key locations. c) Improve sustainability and reduce carbon emissions from the operation of sportsgrounds and sporting facilities consistent with key actions within Council's Sustainable Wollongong 2030 and Climate Change Mitigation Plan 2020. d) Utilise sustainable sportsground maintenance and management practices to minimise impacts of climate change on the quality of sports fields.	 a) Opportunities exist to achieve multiple outcomes of shade provision, perimeter protection and urban greening through coordinated planning. The use of tress can achieve multiple objectives, and when planned correctly, will provide optimal environmental outcomes with minimal lifecycle costs. b) The current infrastructure delivery program includes projects to improve drainage and irrigation to enhance the resilience of natural turf for active recreation. c) A move to more energy efficient lighting is helping to reduce energy usage.
	Attract and support sporting events and tourism: a) Ensure Council's regional sports facilities are provided with appropriate infrastructure to support the hosting of regional, state, and national sports events. b) Pursue grant funding for sports infrastructure to attract and support events in the city	a) Service standards should be developed to ensure the requirements are clearly articulated so that an expenditure and funding model can be developed. b) Grant funding helps to support the delivery of infrastructure that is aligned with current strategies and plans.
Lake Illawarra Coastal Management Program	Manage foreshore and waterway recreational infrastructure	Council currently maintains and manages a range of open space assets along the foreshore of Lake Illawarra. A range of assets in this area are under the responsibility of a range of Government authorities.
	Undertake a bank condition assessment and determine and implement erosion control measures	This action is related to resilience and discussed in the relevant section below. A coordinated plan on approach to reseeding shorelines needs to be prepared to avoid isolated bank stabilisation that may increase impacts on adjoining areas. Consider retreat strategy for open space assets to reduce ongoing impacts from bank erosion.



Supporting Document	Action	Resource Impact
	Update Asset Management Plans for all publicly owned and managed assets to clearly identify asset at risk from inundation over future timeframes, including tidal inundation	Further studies are required to identify the impact of inundation on open space assets.
	Improve litter management through provision of extra bins and bin collection in high usage areas over summer	The provision of enhanced services increases operational costs of litter management and needs to be factored into the required maintenance cost estimate.
	Rehabilitate vegetation and manage public access along foreshores and banks of the Lake, its tributaries, islands, and broader low-lying areas.	Revegetation works are primarily operational expenditure and not typically recognised as a financial asset.
	Undertake targeted action to control damage to foreshore and lake vegetation, including seagrasses	This action will require supporting technical study to identify the locations and requirements for actions.

12.7.2.1 Future Impacts

The future impacts for each of the services associated with open space infrastructure are listed below:

Category	Future Impact
West Dante Growth	Careful planning for the provision of recreational spaces and open spaces in West Dapto
West Dapto Growth	The growth of West Dapto and handover of other subdivisions across the city will increase the number of natural area sites under Council's care and control.
West Dapto and	Increasing sports participation and the implications of population growth.
Infill Development	Population growth implications and service level expectations
	Enhancing sports field lighting, drainage and irrigation remain a key focus to improve the capacity of existing sites and enhance greater participation.
Sport Fields and Recreation	Escalating costs of sports infrastructure and funding opportunities. Accessible and inclusive sports facilities for growth codes including football and AFL
	Emerging trends in unstructured sports participation has placed greater demand on the provision of facilities, including skateparks, mountain bike trails and outdoor exercise equipment.
Memorial Gardens and Cemeteries	Ongoing financial sustainability of the Wollongong Memorial Gardens and Cemeteries service to ensure viability of maintenance across all sites.
Climate Change	Climate adaptation and responding to the impacts of significant weather events is placing greater focus on the provision of more resilient playing surfaces, including drainage/ irrigation infrastructure and synthetic or hybrid turf surfaces.
	Ageing asset renewal at Botanic Gardens and annexes.
Botanic Gardens	Ongoing growth in visitation to Botanic Gardens due to successful promotions, events, and capital improvements on site.
Russell Vale Golf Course	Continue to provide a quality affordable golf course that is available for the community to utilise and continue to investigate additional opportunities to improve and support the use of the golf course for alternative uses that support the ongoing operation.



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12.7.2.2 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications, as summarised below in Table 12.7.2.2, will create changes in demand that influences planning associated with open space infrastructure:

Table 12.7.2.2 - Future Demand for Open Space

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	Areas of growth require new access to open space for a range of active and passive recreation.	Most growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the open space required to support the growth and the funding contributions from development towards the recommended infrastructure.	The West Dapto contribution plan identifies the infrastructure and funding required to meet the demand. This plan integrates the contributions plan forecasts.
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may increase demand on existing open space and create drivers for upgrades to create additional capacity. Combined with an increase in sport participation across the community, the utilisation and management of sportsgrounds is an important issue for council.	Strategically identify open space with lower utilisation to transfer and distribute demand. Encourage shared use of existing facilities. Invest in renewal of priority open space infrastructure that supports higher utilisation and capacity. Invest in good maintenance practices and enable recovery time for natural assets to ensure long-term durability. Strategically plan for the development of new facilities in growth areas.	Existing programs for upgrade and renewal of open space assets. Operational and maintenance programs for open space assets. Works schedule in the Section 7.11 and 7.12 developer contributions plans.



12.7.3 Asset Snapshot

Asset Register - Assets

Valuation Information: – Other Open Space/Recreational Assets incorporate park assets including, skateboard facilities, tennis courts, furniture, landscaping and lighting poles.

Valuation Technique - Other Open Space/Recreational Assets are recognised using the cost method.

Fair Value Hierarchy – while some elements of the cost method can be supported by market evidence (Level 2) other factors require professional judgement such as asset condition and useful life. As these inputs can have a significant impact on the fair value the valuation input all Other Open Space / Recreational Assets were considered level 3.

Asset Type	Av Useful Life	Carrying Value	Annual Depreciation	Current Asset Cost
	(Years)		(\$) @ 30 June 2024	
Open Space Areas				
Parks	15	596,213	74,527	744,234
Pools #	5	20,839	5,587	26,541
Sports Grounds	25	1,779,181	74,141	1,853,080
Tourist Parks	20	20,329	2,034	40,682
Open Space Areas Land Formation *	995	94,131,208	291,126	94,748,092
Open Space Infrastructure				
Beach Access	35	948,024	34,997	1,028,730
Cemetery Specific	-	1,258,668	26,786	1,638,678
Lighting	22	6,650,649	358,548	7,562,726
Memorials	50	225,126	4,790	239,454
Minor Infrastructure (signs, gates, fences etc)	22	7,015,122	1,279,362	24,666,235
Outdoor Exercise	11	418,017	58,861	837,016
Outdoor Furniture	21	1,521,113	777,666	13,411,850
Shelters	36	9,133,584	416,026	12,490,737
Skate Park	35	2,111,223	100,007	3,704,200
Sports Areas and Equipment	46	15,681,500	1,023,640	32,289,165
Utilities	33	14,060,948	1,435,842	35,593,353
Grand Total		155,571,744	5,963,941	230,874,773

^{# -} Slurry pump at Port Kembla Pool (other pool pumps are listed in Pool Structures asset plan)

^{*} This asset group are non-depreciable land formations. It is the cost of shaping the land and turfing to provide the open space for recreational use.





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12.7.3.1 Components and attributes

Open space assets are typically recorded as a single asset. A full asset class revaluation of the open space asset class is scheduled within the next 2 years, and the components and attributes for assets will be reviewed in conjunction with this work. We use descriptors with park name locations to link assets by location. Several asset types in the open space category are grouped assets at a particular location, such as outdoor furniture, minor infrastructure, and lighting. The use of grouped assets should be reviewed to determine if this approach will continue and ensure that supporting operational registers are available and kept current.

12.7.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5. A review of the five services utilising assets in open space identified that Natural Area Management provides a critical service of Asset Protection Zone (Bushfire) Management. It is noted that the assets under this category are not critical to the provision of the service. As a result, there are no identified critical assets in the open space plan.

12.7.3.3 Inspection and maintenance requirements

Open space assets require routine and ad hoc inspections, including:

- · routine maintenance
- · defect investigation
- quality assurance inspections
- · performance monitoring
- asset condition inspection.

The range of assets under the open space grouping require varying levels of maintenance and operational activities to keep them in service. We estimate that the cost of required maintenance and operational activities on open space are approximately 8% of the gross replacement cost, except for shelters which we forecast an annual cost of 0.65% of the gross replacement cost. This is to undertake activities such as:

- Cleaning,
- repair of surfaces,
- asset inspections,
- wages and salaries of staff undertaking operation and maintenance,
- litter and dumped rubbish removal,
- mowing,
- signage,
- pest control,
- · recreation equipment repair,
- · lighting energy and operating costs,
- tree maintenance,
- plant propagation and sourcing,
- · gardening,
- fence painting and repair,
- furniture repairs,
- water feature servicing.





The ratio of maintenance and operating expenditure relative to asset value for open space assets is the highest of all the infrastructure classes. The requirement for frequent grass cutting and cleaning services in open space are the major contributor to the maintenance and operating expense.

With the increasing demand for access to open space and recreation facilities, the network has expanded into new and emerging services. Our understanding of the operational and maintenance activity costs that form part of the lifecycle costs are developing and need to be documented to inform future asset planning decisions.

12.7.3.4 Depreciation and degradation curves

Open space assets and component use a straight-line depreciation and degradation curve.

12.7.4 Roles and responsibilities

Service Manager: Manager Sport and Recreation

Role	Lifecycle	Function	Responsibility	Activities
	Planning	Service Planning	Manager Sport and Recreation	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery
Service Management	Operations	Service Operations	Manager Sport and Recreation	Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation Establish fees and charges
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Sport and Recreation	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service Arrange establishment or termination of agreements (user agreements, utility connections, etc)
Asset management	Planning	Asset Planning	Manager Open Space and Environmental Services	Condition assessment Asset related legislative requirements Coordinate scope preparation Condition and performance monitoring



Role	Lifecycle	Function	Responsibility	Activities
			Manager Sport and Recreation	Asset review
		Asset Data	Manager Open Space and Environmental Services Manager Infrastructure Strategy and Planning	Administration of asset register Data updates Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Open Space and Environmental Services	Revaluation Unit rates Estimates Monitor expenditure
		Project Sponsor	Manager Open Space and Environmental Services	Capital expenditure review (OLG)
		Asset Concept	Manager Sport and Recreation Manager Open Space and Environmental Services	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
	ry Delivery	Program Management	Manager Open Space and Environmental Services	Oversee project as part of program Responsible for managing overall program costs, risks, progress
Project Delivery		Asset Design	Manager Open Space and Environmental Services Manager Project Delivery (complex)	Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete design safety report Approvals process
		Asset Delivery	Manager Open Space and Environmental Services	Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Oversee project commissioning and handover
Maintenance and Operation Management	Maintenance	Asset Maintenance	Manager Open Space and Environmental Services	Complete maintenance inspections Work management triage and scheduling

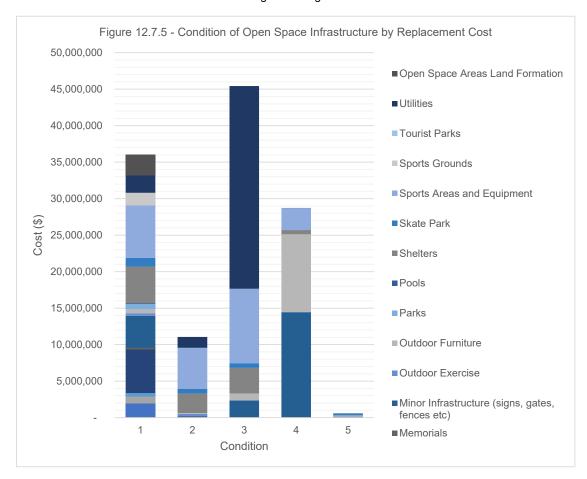


Role	Lifecycle	Function	Responsibility	Activities
				Establish maintenance procedures
				Undertake maintenance works
	Operation	Asset Operations	Manager Open Space and Environmental Services	Utility management Compliance audits Cleaning services

12.7.5 Performance

We monitor the performance of our open space assets by reviewing condition, utilisation, customer satisfaction, functionality, and capacity. The Sportsgrounds and Sporting Facility Strategy (S&SFS) reviews the functionality and capacity of our sports grounds and established ten strategic directions and actions to address the function and capacity demands.

The current profile of condition of open space assets is provided in Figure 12.7.5 below. All shelters were subject to a comprehensive revaluation and condition rating in 2024. Other asset types in open space condition is derived from the useful life and straight-line degradation.





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12.7.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey includes results relating to open space as part of the facility questions. The results of the community survey indicate minor changes in usage patterns of open space facilities as shown below in Table 12.7.5.1 (a):

Table 12.7.5.1 (a) - Community Survey Open Space Utilisation Data

FACILITY USAGE RATE	2017	2019	2021	2023	CHANGE SINCE 2021
Botanic Garden	55%	52%	70%	61%	-9
Russell Vale Golf Course (The Vale)	11%	7%	11%	13%	+2
Parks, open spaces, and sports fields for passive recreation purpose	76%	74%	84%	80%	-4
Parks, open spaces and sports fields for active sport or recreation activities	71%	70%	71%	65%	-6

The community survey provided satisfaction with open space, as summarised in Table 12.7.5.1 (b) below, indicating a consistent result over multiple years:

Table 12.7.5.1 (b) - Community Survey Open Space Utilisation Data

FACILITIES	2010	2012	2014	2017	2019	2021	2023	CHANGE SINCE 2021
Botanic Garden	4.4	4.6	4.5	4.4	4.6	4.7	4.6	Ψ
Russell Vale Golf Course (The Vale)	3.9	4.1	4.4	4.1	4.2	4.2	4.2	⇔
Parks, open spaces, and sports fields for passive recreation purpose	-	4.2	4.3	4.1	4.2	4.1	4.1	⇔
Parks, open spaces and sports fields for active sport or recreation activities	-	4.1	4.2	4.1	4.2	4.1	4.0	⇔

12.7.5.2 Criteria for levels of service

We monitor a range of customer and technical levels of service to understand how our assets and our services are performing. Below is a summary of the main categories that we monitor.

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance	
Customer Levels of Service					
Safety	Assets are safe for use	Number of claims alleging injury or damage associated with condition of a assets	Asset condition not found to have contributed to injury or damage.		
Function	Assets are fit for purpose	No restrictions that unreasonably limit the	Down time of open space assets from		



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
		usability of open space assets	service less than 5% of available hours	
Serviceability	Assets are available for use	Percentage of assets in serviceable condition.	No extended "closures" of assets/locations, except those identified for decommissioning or impacted by rainfall events	
		Community survey – Facility Utilisation Rates for Botanic Gardens	Utilisation rate not reducing by more than 10% to previous survey	Utilisation reduced by 13% Target not achieved
	Open space assets and facilities are being utilised by the community	Community survey – Facility Utilisation Rate Russell Vale Golf Course	Utilisation rate not reducing by more than 10% to previous survey	Utilisation increased Target achieved 😊
Utilisation		Community survey – Facility Utilisation Rate for Parks, open spaces, and sports fields for passive recreation purpose	Utilisation rate not reducing by more than 10% to previous survey	Target achieved ©
		Community survey – Facility Utilisation Rate for Parks, open spaces and sports fields for active sport or recreation activities	Utilisation rate not reducing by more than 10% to previous survey	Target achieved 😊
		Community survey Facilities – Internal Benchmark for Botanic Gardens	No significant decrease in average satisfaction results to previous survey	The results for 2023 showed a minor drop from 4.7 to 4.6 Target achieved ©
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey Facilities – Internal Benchmark for Russell Vale Golf Course	No significant decrease in average satisfaction results to previous survey	The results for 2023 remained the same as 2021, with a result of 4.2. Target achieved ©
		Community survey Facilities – Internal Benchmark for open spaces and sports fields for passive recreation purpose	No significant decrease in average satisfaction results to previous survey	The results for 2023 remained the same as 2021, with a result of 4.1. Target achieved ©
		Community survey Facilities – Internal Benchmark for open spaces and sports	No significant decrease in average satisfaction results to previous	The results for 2023 remained the same as 2021, with a



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance		
		fields for active sport or recreation activities	survey	result of 4.0. Target achieved ©		
The community do not see this asset group or associated Wish List Service as an area of focus for council over the next 4-years		Community survey internal benchmark – "In your view what are the three key areas you think Council should focus on over the next four years?"	Less than 5% increase on previous percentage	Parks, green spaces, sporting fields, playgrounds as a group decreased from 23% to 19% between 2021 and 2023. Target achieved ©		
Technical Leve	Technical Levels of Service					
Condition	Level 1 condition assessment	Annual	75% compliance			
Inspection	Level 2 condition assessment	4-yearly	75% compliance			
Event damage	Level 1 inspection	Within 2 weeks of incident	100% compliance	Target met 😊		
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Assets with high maintenance costs identified for major maintenance program or renewal.			
Risk	Assets are maintained within a tolerable risk profile.	Risk assessment of assets to be undertaken.	All open space assets managed in accordance with the infrastructure risk appetite statement			
		Percentage of identified renewals funded				
Performance	Asset management actions and	Ratio of reactive maintenance to planned maintenance expenditure trending downward over time				
	funding allocation supports long- term sustainability	Percentage of planned renewals completed				
		Percentage of identified proactive maintenance works completed				

Our Parks and Open Space team have been championing a service review to improve the planning, coordination, and resourcing to services. It is recommended that an open space maintenance management plan be developed to outline our approach to scheduled maintenance activities, and how we respond to ad hoc reactive maintenance. With such a broad range of open space assets, a maintenance management plan



will clearly identify maintenance priorities for an increasing portfolio. Such a plan will also assist with planning future assets, as it will be used to inform the lifecycle costs to provide on-going maintenance.

12.7.5.3 Open Space Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact open space infrastructure are summarised below in Table 12.7.5.3 (a):

Table 12.7.5.3 (a) - Hazard Rating for Open Space

Risk Rating	Rating Priority	Residual Risk Rating	Hazard Name	
1	EXTREME	Major/Likely	Severe Storm	
2	EXTREME	Major/Likely	Fire – Bush/Grass	
3	EXTREME	Major/Likely	Heatwave	
4	EXTREME	Major/Likely	Flood – Lake and Flash	
8	EXTREME	Catastrophic/Unlikely	Biosecurity (Animals, Aquatic & Plants)	
9	HIGH	Moderate/Likely	Landslip/Mudflow/Rockfall	
18	HIGH	Major/Rare	Earthquake	
19	HIGH	Major/Rare	Tsunami – Land inundation threat	
20	HIGH	Major/Unlikely	Maritime Event and Environmental Impact	
21	MODERATE	Moderate/Low	Dam Failure	
24	RARE	Minor/Low	Coastal Erosion	

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any locations impacted by the event.

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to open space are summarised below with the actions from the CCAP and relationship to open space is provided below in Table 12.7.5.3 (b):

Table 12.7.5.3 (b) - Climate Hazard Actions for Open Space

Hazard	Climate Change Adaptation Plan Action	Open Space Action		
Heat	Further investigation of heat in the Wollongong area to understand this issue further and develop appropriate heat management strategies including city design, shade, construction materials and cooling infrastructure.	Integrate strategies relating to public infrastructure in open spaces.		
	Assess the suitability of Council facilities to be utilised for respite centres on hot days. This may include provisions for adequate water and food, power supply and potentially use of recycled water and appropriate	Most open space locations provide access to shade. Provision and access to water for drinking needs to be considered in open space where a need is identified.		



Hazard	Climate Change Adaptation Plan Action	Open Space Action
	landscaping to provide shade.	
	In partnership with Land Management Agencies and other Botanic Gardens, develop translocation programs for threatened Illawarra flora susceptible to mean temperature increase.	Actions will be dependent on the outcomes of the investigation to determine whether there are asset related actions to support the program.
Flooding	Undertake community education to increase awareness of the dangers of floodwaters and precautions to minimize risks to people and property.	Criticality assessment and risk management associated with stormwater infrastructure, noting that open space may form part of the catchment mitigation plan for conveyance and/or storage of water during floods.
Bushfire	Proactively maintain fire trails and other bushfire related infrastructure to be fire ready e.g., hazard reduction.	Fire trails are listed as a type of road. Inspections and maintenance of Council fire trails are scheduled.
Storms	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure. Council controlled open space on the foreshore of Lake Illawarra needs to be reviewed and a plan for retreat of infrastructure and/or stabilisation needs to be prepared.
Drought	Council will review the water efficiency of its operations including detecting leaks in water supply (for Council managed section of water network).	The review may identify the need for capital works. The outcomes of the works should decrease operational costs associated with water usage; however the option will need to be assessed for any other associated changes in costs (eg. Maintenance of water harvesting systems such as filters, pumps, flush systems, etc.)
	Council to consider rainwater, sewerage mining/ recycling and stormwater harvesting and usage, to support irrigation for sports fields.	The outcome of review may result in implementation of capital works and adjustment to maintenance and operational costs.
Sea-level	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure. There are many open space locations along the Wollongong foreshore. Further detail is provided in the Coastal Zone Management Plan section below.
rise	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events. An allowance will be included in estimates based on a review of prior years' activities.



12.7.5.4 Coastal Zone Management Plan

Our community has access to a range of open space areas along the Wollongong coastline. These areas contain numerous park furniture items, lighting, accessways and other assets that form part of this plan. A review of the hazards undertaken as part of the Coastal Zone Management Plan (CZMP) identified the locations most vulnerable to coastal threats. In many instances, natural retreat of the beach is acceptable, with minimal overall impact on the adjoining open space. A summary of the current and future risks associated with open space is provided in Table 12.7.5.4

Table 12.7.5.4 - Open Space Coastal Hazard Assessment

Location and Asset	Risk Now	Risk at 2050	Risk at 2100
McCauleys Beach Reserve	High	Extreme	Extreme
City Beach – Football Ground and Showground	g		
Thirroul Beach Reserve (south of pool) – Heritage Site	Medium	High	Extreme
Stuart Park – Heritage Site	Medium	riigii	LAUGITIC
Stanwell Park Recreation Area Park and Natural Area;			
Coalcliff Beach Reserve Nature Area; Coalcliff Beach Reserve;			
Coledale Beach Reserve; Coledale Beach Camping Ground and Caravan Park;			
Sharkys Beach Reserve; Little Austinmer Beach Reserve; Austinmer Beach Reserve; Tuckermans Park;			
Tingara Park Thirroul;			
McCauleys: Woodland Avenue Reserve, Corbett Avenue Reserve, Sandon Point Reserve; Sandon Point Beach Reserve (not including Heritage Area);	Medium	Medium	High
Bulli Beach Reserve; Ocean Park, Bulli; Bulli Tourist Park;			
Woonona: Collins Point Reserve; Woonona Beach Reserve; Beach Drive Park			
Bellambi: Beach Drive Park; Bellambi Natural Area; Bellambi Point Reserve; Bellambi Pool Reserve			
City Beach – open space, parks and foreshore			
Coniston – Wollongong Golf Course (inundation only a small section at the south end)			

It is recommended that assets are relocated away from areas of coastal risk as assets require renewal or following impacts from storm damage. This will enable natural retreat to occur without impacting assets. The plan identified that there are no specific actions required at the current time.

12.7.5.5 Legislative Requirements

- Local Government Act 1993
- Environmental Planning & Assessment Act 1979
- Fisheries Management Act 1994
- Threatened Species Conservation Act 1995
- Noxious Weeds Act 1993
- Biosecurity Act 2015



12.7.6 Future Investments

12.7.6.1 Network Expansion and Upgrade Plans

The West Dapto Contributions plan makes provision for new open space to meet the needs of the growing community. The projects have been included in the future investments estimates from 2025 and beyond, with timing based on estimated rate of development. The citywide sports park (reference OS01) is included in the current Infrastructure Delivery Program with design planned in the 2025 and 2026 Financial Years, and construction forecast for the 2027 Financial Year. The following open space projects are forecast for acquisition in the plan:

Reference	Infrastructure Item	Indicative location	General Description	Indicative Timing	Project Cost (\$)
Stage 1-2 D	arkes Town Cent	re			
OS01	City wide sports park	Adjacent to Darkes Town Centre and conservation land	City wide competitive sporting facilities including 2 AFL/cricket fields or 4 rugby fields and passive recreation	2021/22 - 2026/27	5,384,348
OS02	Local Park	On ridge to east of Darkes Town Centre	Passive open space including pathways and seating	2019/20 – 2022/23	1,271,304
Stage 1-2 S	heaffes - Wongav	willi			
OS03	Stane Dyke Park	Within residential area - northern end of Saddleback Cres & corner of Paynes Rd	Local Park providing active and passive open space including 1 informal playing field	Completed - 2018/19	
OS04	McPhail Reserve	Within residential area - corner of Sheaffes & Paynes Roads	Local Park providing passive open space including pathways and seating	Completed - 2018/19	
OS05	Mogomorra Park	Within residential area along Sheaffes Road and to the west of Local Park OS04	Local Park providing passive open space including play equipment and seating	Completed – 2019/20	
OS06	Neighbourhood Park	Adjacent to Wongawilli Village Centre - along West Dapto Road	Active (2ha formal playing fields) and passive (2ha) open space	2019/20 – 2022/23	1,794,783
OS07	Local Park	Within residential area - western end of Sheaffes Road	Active and passive open space including 1 informal playing field	2021/22 – 2025/26	1,121,739
OS08	Local Park	Within residential area - along West Dapto Road & south of the railway line	Active and passive open space including 1 informal playing field	2021/22 – 2025/26	1,121,739
OS09	Bankbook Park	Within residential area - along Bankbook Drive	Local Park providing passive open space including play equipment and seating	Completed – 2018/19	
Stage 1-2 V	Vest Horsley				
OS10	Neighbourhood Park	Adjacent to Jersey Farm Village Centre	Active (2ha formal playing fields) and passive (2ha) open space	2026/27 - 2028/29	1,794,783



Reference	Infrastructure Item	Indicative location	General Description	Indicative Timing	Project Cost (\$)
OS11	Neighbourhood Park	Adjacent to Bong Bong Town Centre	Active (1-2ha formal playing fields) and passive (1-2ha) open space	2036/37 - 2040/41	4,412,174
OS12	Local Park	Within residential area - along Haynes Lane	Active and passive open space including 1 informal playing field	2021/22 - 2025/26	1,121,739
Stage 3 Cle	veland				
OS13	Community leisure and recreation centre (part only)	Southern side of Cleveland Road adjacent Daisy Bank Drive	Active open space including 12 Netball Courts and 8 Tennis Courts	2036/37 – 2040/41	2,683,008
OS14	Local Park	Within residential area - south of the western end of Bong Bong Road	Active and passive open space including 1 informal playing field	2026/27 – 2030/31	841,304
OS15	Local Park	Within residential area - north of the western end of Cleveland Road	Passive open space including embellishment	2026/27 – 2030/31	560,870
OS16	Neighbourhood Park	Adjacent to Community Leisure & Recreation Centre	Active (2ha formal playing fields x 4) and passive (2ha) open space	2036/37 – 2040/41	1,944,348
OS17	Local Park	Within residential areas - south of Cleveland Road	Active and passive open space including 1 informal playing field	2046/47 – 2050/51	1,121,739
OS18	Local Park	Within residential areas - northern side, far western end of Cleveland Road	Active and passive open space including 1 informal playing field	2046/47 – 2050/51	1,121,739
Stage 4 Avo	ondale				
OS19	Neighbourhood Park	Adjacent to Huntley Village Centre and residential area	Active (2ha formal playing fields) and passive (2ha) open space	2045/46 – 2050/51	1,944,348
OS20	Neighbourhood Park	Adjacent to Avondale Village Centre and residential area	Active (2ha formal playing fields) and passive (2ha) open space	2045/46 – 2050/51	1,944,348
OS21	Local Park	Within residential areas - along Avondale Road & west of South Avondale Road	Active and passive open space including 1 informal playing field	2046/47 – 2051/52	1,121,739
OS22	Local Park	Within residential areas - southern side along Avondale Road	Active and passive open space including 1 informal playing field	2046/47 – 2051/52	1,121,739
Stage 5 Yal	lah - Marshall Mo	unt			
OS23	Neighbourhood Park	North side along Marshall Mount Road & adjacent to Marshall Mount Town centre	Active (2ha formal playing fields) and passive (2ha) open space	2031/32 - 2035/36	1,944,348
OS24	Local Park	Within residential areas - along the western end of Marshall Mount Road	Active and passive open space including 1 informal playing field	2031/32 - 2035/36	1,121,739



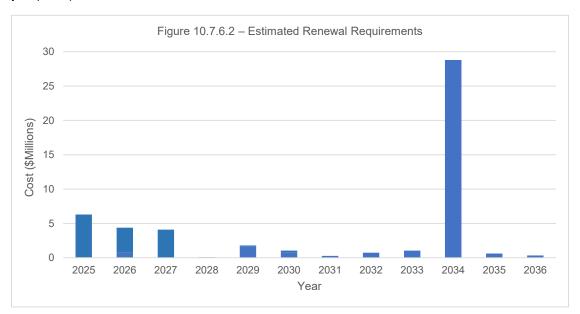
Reference	Infrastructure Item	Indicative location	General Description	Indicative Timing	Project Cost (\$)
OS25	Local Park	Within residential areas - along the northern end of Marshall Mount Road	Active and passive open space including 1 informal playing field	2031/32 - 2035/36	1,121,739

As playgrounds are covered in a separate asset plan, the estimated cost of each playground component is included in the corresponding forecast expenditure of the playground plan.

It should be noted that expanding the open space network creates associated on-going maintenance, operations and depreciation for the life of the assets. For each \$1M invested into expanding open space assets it brings an additional annual maintenance and operational expenditure of \$80,000 and annual depreciation expense of \$38,500. Open space shelters have a lower maintenance requirement, and each \$1M invested into shelters carries a maintenance cost of \$6,500 and annual depreciation of \$27,800.

12.7.6.2 Renewal Works

Based on the current information relating to condition and forecast useful life, Figure 12.7.6.2 below provides an indication of the timing and cost to replace open space asset over the next 10-years. The spike in 2034 is due to light pole assets being recorded as a grouped asset. This will be addressed as part of the open space revaluation, where it is expected that the grouped asset will be reviewed to enable more detailed planning and condition assessment to be determined. The average required annual renewal investment (over the 11-year period) based on the current condition information is \$4,466,000.



12.7.6.3 Decommissioning Planning

There are currently no significant open space assets identified for decommissioning (removal and not replaced) during the period of this plan. Assets that are demolished and reconstructed in a different location, but effectively providing the same service to the existing catchment, are considered as a renewal and not a decommissioning.



12.7.6.4 Future investment plan – Open Spaces

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	5,963,941	6,041,307	6,094,909	6,306,472	6,317,838	6,318,871	6,318,871	6,318,871	6,318,871	6,318,871	6,318,871
Required maintenance and operational works	17,551,913	17,791,513	17,957,513	18,612,713	18,647,913	18,651,113	18,651,113	18,651,113	18,651,113	18,651,113	18,651,113
Operating expenditure	23,515,853	23,832,820	24,052,421	24,919,185	24,965,751	24,969,984	24,969,984	24,969,984	24,969,984	24,969,984	24,969,984
Renewal works	580,000	970,000	970,000	990,000	960,000	1,357,000	1,239,000	1,286,000	1,334,000	1,395,000	2,708,000
Upgrade works	5,160,000	520,000	535,600	551,668	520,000	600,000	200,000	200,000	200,000	200,000	200,000
Expansion works	40,000										
New works	2,955,000	2,075,000	8,190,000	440,000	40,000						
Capital expenditure	8,735,000	3,565,000	9,695,600	1,981,668	1,520,000	1,957,000	1,439,000	1,486,000	1,534,000	1,595,000	2,908,000
Totals	32,250,853	27,397,820	33,748,021	26,900,853	26,485,751	26,926,984	26,408,984	26,455,984	26,503,984	26,564,984	27,877,984
Estimated Required Renewals	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067	4,466,067
Planned renewal as a % of estimated required	129%	33%	34%	35%	33%	44%	32%	33%	34%	36%	65%



12.7.7 Open Space Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Division	Timing
7.1	Open space resilience	Several open space assets and locations are exposed to risks of erosion induced by storm surges and sea level rise. Locations along the Wollongong coastline, Lake Illawarra and natural water courses are most at risk. An assessment of risk to infrastructure should be included in masterplans, and scopes of any specific hazard studies. In addition, the location of infrastructure in these locations needs to be reviewed at the time of renewal or planning for new infrastructure	MISP	2028
7.2	Asset Register Structure	A review of the asset register structure should be undertaken to ensure that it is fit for purpose prior to undertaking a full class revaluation. Assess compliance with the requirements of the Australian Accounting Standards Board standards for fair value and accounting for infrastructure, property, plant, and equipment to determine if proposed approach is fit for purpose. Review approach to grouped assets to ensure required data to support the grouping is available and up to date.	MISP	2024
7.3	Data Dictionary	To support the structure of the asset register, prepare a data dictionary to provide guidance and consistency in classification, description, and attributes.	MISP	2024
7.4	Operational Service Review	The Open Space and Environmental Services Division are reviewing service approach to improve efficiency and coordination of works. Continue review to establish work order structure and plant and equipment requirements to support efficient service delivery.	MOS&ES	2025
7.5	Open space hierarchy and service standard	Develop service standards outlining indicative asset provision, intervention triggers for actions, frequency of services and alike for open space assets aligned to the hierarchy of the location.	MISP, MOS&ES, MSR	2025
7.6	Maintenance management plan for Open Space	Using the hierarchy and service standard, develop a maintenance management plan that clearly identifies maintenance priorities for the range of activities across the asset portfolio	MOS&ES	2025
7.7	Lifecycle costs Increasing demand for more diverse open space services has resulted in new assets to meet the emerging needs. It is recommended that lifecycle costs be analysed to inform future asset planning decisions (exercise equipment, parkour equipment, mountain bike tracks, skate plazas, etc).		MISP	2025
7.8	Condition and Useful life	The network requires assessment of condition and remaining useful life.	MISP	2026
7.9	Heritage Sites	Ensure that heritage open space sites are appropriately identified in the register and develop a management plan for the item.	MISP	2028
7.10	Hierarchy	Open space hierarchy to be analysed and rationalised considering life cycle costs.	MS&R MOS&ES	2026



12.8 Playgrounds

Access to safe play space is important to people of all ages and abilities in our community, which is why Council continues to invest and plan for quality and accessible play opportunities across the Wollongong Local Government Area. This section of the asset management plan details our playground assets. Playgrounds are part of our Open Space infrastructure. This group of assets focusses on the playground equipment and the safety surfacing below the equipment. This section excludes other supporting assets such as pathways, seating, and other park furniture, which is reported in other sections of this plan.

Council carries out planning and maintenance for 156 play spaces across the Local Government Area. This includes the renewal and construction of new and existing play spaces, as well as the planning and delivery of supporting infrastructure, such as access to facilities, lighting, seating, and amenities.

12.8.1 Profile

Community Strategic Plan Goal: Goal 4: We have a healthy, respectful, and inclusive community

Service: Parks and Sports Fields

Playgrounds are associated with the Parks and Sports Fields service. Play is important to people of all ages and abilities in our community, which is why Council has invested in and continues to plan for quality and accessible play opportunities across the Wollongong Local Government Area. Playground assets facilitate a range of benefits as identified in the Play Wollongong Strategy. Our 10-year vision for plan is:

"Wollongong offers a range of high-quality play spaces that are distributed equitably across the city, are well maintained, and meet the needs of the community. Wollongong's play spaces are safe, enjoyable, challenging and serve as important community spaces that foster social connectedness and wellbeing."

The Playgrounds delivery stream is guided by the Play Wollongong (2014-2024) suite of supporting documents. The Play strategy is scheduled for review; however, the current document remains the current and is a reference for this asset management plan.



12.8.2 Strategic priorities

Play Wollongong Principles	Delivery Stream Actions	Supporting Documents
The Play Wollongong Strategy outlines the following six principles to ensure best practice and deliver high quality play spaces in a sustainable manner. These principles influence the location, planning, design, and management of play spaces to fully support the needs of children. Quality play opportunities are equitably distributed across the city, including large regional play spaces and smaller local play spaces. Play Spaces are easily accessed by walking and encourage healthy living and independent access by children. Meaningful engagement is undertaken with the community including children, in relation to play space planning, provision and management. Play spaces are well designed, inclusive of all ages and abilities and encourage participation in play. Informal play spaces and the provision of natural play elements is given priority, recognising the benefits of connecting with nature. Play spaces will provide children with an appropriate level of risk and challenge while complying with relevant safety standards.	 Strategic oversight in the provision of safe and accessible playgrounds to the community, including the renewal of existing playgrounds and planned construction of new play spaces. Quality play opportunities are equitably distributed across the city, including large regional play spaces and smaller local play spaces and smaller local play spaces. Play Spaces that are easily accessed by walking and encourage healthy living and independent access by children. Meaningful engagement with the community including children, to inform play space planning, provision, and management. Informal play spaces and the provision of natural play elements is given priority, recognising the benefits of connecting with nature. Include an appropriate level of risk and challenge in play spaces for children while complying with relevant safety standards. Conduct annual playground compliance audits to help inform play space upgrades and equipment renewals. Deliver key strategic actions and principles of Councils Play Wollongong Strategy 2014 - 2024. Develop, implement, and review policies aligned to playgrounds. Example, Smoke Free Recreation Areas. Replace, repair, maintain and renew playgrounds in accordance with the playground hierarchy. 	 Play Wollongong Strategy 2014-2024 West Dapto Contributions Plan Wollongong City- Wide Development Contributions Plan Asset Management Strategy Tourist Parks Improvement Strategy & Master Plan 2017-2022



12.8.2.1 Future Impacts

Future Impacts	Strategic Response	Consequences of Not Funding
The strategies outlined in the Play Wollongong Strategy 2014-2024 will inform Councils Delivery Program and Operational Plan, to ensure that the future and existing needs of our community are considered in Council decision making, planning, and resourcing processes. This document will be required to be reviewed soon	The Play Wollongong Strategy is scheduled for review. Works are planned in Infrastructure Delivery Program (IDP) over a 4-year period. This asset management plan informs the IDP and provides guidance on priority locations based on age and hierarchy.	If funding is not made available planning will continue based on the current strategy. This Asset Management Plan is providing an indicator of future costs based on the current strategy and highlights some areas for consideration and review to reduce the lifecycle cost of providing a playground service.
A focus on accessible play spaces which are suitable for people of all ages and abilities will be a key consideration during the design of all district and regional level playgrounds.	Accessibility is a major consideration as part of the design process for district and regional facilities. Significant upgrades and new playgrounds completed at Cringila Hills and Stuart Park, including complementary facilities at the site.	Not funding the provision of accessible play spaces will result in a failure to deliver on the following action in the 2020-2025 Disability Inclusion Action Plan: Increase access to our recreation services and facilities: - Include accessible play elements when renewing and installing playgrounds.
Ongoing maintenance and escalating cost associated with the renewal of playgrounds.	Maintenance costs require more detailed understanding to isolate costs associated with playgrounds from other parks and sports field expenditure. The renewal of playgrounds is associated with an enhancement of service in many locations. This is a result of a change in safety standards and expectations since the installation of older equipment. Funding opportunities will continue to be explored to leverage the funding allocated for renewals, including grants and Section 7.12 Developer contributions.	Maintenance is required to keep playgrounds in a safe and functional condition. Not funding maintenance will increase the likelihood of injuries due to equipment and/or soft fall not meeting the target technical levels of service.



12.8.2.2 Future Demand

The Play Wollongong Strategy identified demand drivers that will impact the provision of play spaces. The projected impacts will help create changes in demand that influences our planning associated with playgrounds, as summarised below in Table 12.8.2.2:

Table 12.8.2.2 – Future Demand for Playgrounds

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Increasing visitor numbers to coastal foreshore as surrounding LGA's grow to 1Million people living within 40mins of the foreshore Increased visitor numbers to locations catering for inclusive play and facilities.	Wollongong LGA growth by 33,000 by 2036. Forecast increase of 3,500 (11.1%) children aged 0-12 from 2011 to 2024. Wollondilly 2040 population is estimated to increase by 41,000 between 2017 and 2036; the population of Campbelltown is forecast to grow from by 104,000 between 2019 and 2036	Increased demand, particularly on Regional and District facilities will potentially result in increased operations and maintenance costs associated with wear and tear items. It may also increase the required frequency for cleaning and racking of soft fall mulch. Increased demand for equipment that caters for a range of ages and abilities. The current provision of play spaces at tourist parks is not in keeping with other holiday parks and may fail to attract tourists with children.	The West Dapto Vision 2018 includes Open Space and Recreation Principles catering for play spaces – this will see additional assets provided as the area develops and open space provided. Design for inclusive play Transport and parking strategies should assist with managing the supply of parking associated with the increased demand for access to foreshore facilities and playgrounds.	Investigate inspection and maintenance programs in response to hierarchy and usage to mitigate risk associated with high demand. Consider masterplan and play strategy for tourist parks to plan for replacement of current facilities. West Dapto planning to include vision for play spaces and standard of provision. Review supply of play spaces to identify opportunities to consolidate playground locations to ensure appropriate distribution and play value.



12.8.2.3 Playground Hierarchy

Playgrounds are categorised according to the play space hierarchy. The following table 12.8.2.3 summarises the designation of hierarchy per site is identified as identified in the Play Wollongong – Current Situation Report (23/06/2014):

Table 12.8.2.3 - Playground Hierarchy and Features

Hierarchy	Time/ Travel Distance	Features	Indicative Funding Allocation for new and upgrade*
Local	Walkable: 5 minutes/ 400 metres	A local play space should be safe and appealing but is generally a small play space that may only cater for one age group (e.g., toddlers 2-4 years or 5–8-year-olds). The play space may include standard play equipment however the natural landscape will be maximised for play.	Up to \$73,500
Neighbourhood	Walkable: 15 minutes/ 1000 metres	A neighbourhood play space should be good quality and could include several pieces of equipment that cater for more than one age group. The play space will generally include standard rather than unique equipment and surrounds and an emphasis will be on utilising the natural landscape elements.	\$73,500 - \$220,500
District	Car Journey: Up to 15 minutes car travel	A district play space should be high quality and include unique features and landscaping. The quality and uniqueness of the play space could be significant as a regional play space; however, a district play space is generally smaller in size.	\$220,500 - \$441,000
Regional	Destination: Up to 1 hour car travel	A regional play space should be substantial quality and will generally be larger than other play spaces. It will include unique and innovative features and provide a range of equipment and activity opportunities. Features could include innovative equipment and design, adventure components, accessible design, and equipment for inclusive play for a range of ages and abilities, fencing of some play areas to create unique enclosed areas, integrated landscaping, and art features.	\$441,000 - \$882,000
Tourist Park#	Destination: for guests of the tourist park	A play space catering to the needs of the tourist park. The facility should be of a standard that supports the ongoing commercial competitive operation of the tourist park. The provision of equipment and services is likely to be uniquely different from public infrastructure as it is provided under a different operational model. The tourist park has on-site operators, and the maintenance and risk profile may be different to public playgrounds, and of a similar nature to similar offerings across the tourist and holiday park sector.	\$220,500 - \$441,000

^{*}Prices have been adjusted for inflation to 2024 costs using the 6427.0 Producer Price Indexes, Australia–Index Number; 3020 Non-residential building construction New South Wales; Series ID A2314865F





Tourist Parks are not a designated classification under the current hierarchy – the district standard is adopted for planning purposes

12.8.3 Asset Snapshot

Financial Reporting Group: Open Space / Recreation Assets

Asset Classification - Playground

Valuation Information: Last valuation date: 2019

Play Space Type	Qty	Average useful	Carrying Value	Annual Depreciation	Current Asset Cost
		life	(\$) @ 30 June 2024	4	
Local	87	20	3,231,836	360,208	6,383,072
Neighbourhood	55	17	3,514,635	429,865	6,995,754
District	25	14	2,079,785	334,985	4,469,079
Regional	13	14	1,110,526	362,360	5,491,263
Tourist	3	23	13,151	19,536	413,501
Grand Total	183*#	18	9,949,933	1,506,955	23,752,668

^{*}Value of soft fall generally included with playground assets – note commentary in Components and attributes below

Note - there are 183 assets located across 156 playground sites. Some sites have multiple assets

12.8.3.1 Components and attributes

Most playgrounds are currently recorded as a single asset however we have commenced recognising a separate component for rubber soft fall. Rubber soft fall has a different useful life and can be renewed independently of the playground equipment. With an indicative useful life of 16 years for playground equipment, the rubber soft fall is expected to provide a service life of 8-10 years. On this basis, we expect to renew the rubber material once within the lifecycle of the playground equipment.

A full asset class revaluation of the open space asset class is scheduled within the next 2 years, and the components and attributes for playgrounds will be reviewed in conjunction with this work.

Shade structures associated with playgrounds are recognised as Shelters in the Open Spaces asset plan. Many playgrounds have access to natural shade from surrounding trees, with shade structures typically only considered for regional facilities if sufficient natural shade is not available.

12.8.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5. A review of the Playground Service identified that it is not a critical service, and consequently, does not have critical assets.

Risk management actions need to be applied throughout the lifecycle management of playgrounds from the initial planning, design and construction, maintenance, and operation through to decommissioning. The Play Wollongong – Background Research Report outlines key issues for *Managing Risk in Play* and the approach to *Planning for Play*.





12.8.3.3 Operation and maintenance requirements

The Australian Standard AS/NZS 4486.1 Playgrounds and playground equipment outlines best practice for the inspection, maintenance and operation of playgrounds and playground equipment. There are three levels of inspection recommended for playgrounds:

Level 1 – Routine Inspection	Level 2 – Operational Inspection	Level 3 Annual inspections
A visual inspection to identify obvious hazards resulting from wear and tear; hazardous litter and debris; accident, storm and/or vandalism damage. Routine inspections may be carried out depending on use and resourcing and include raking loose-fill soft fall. This inspection and soft fall maintenance is typically undertaken by Council.	A more detailed inspection, used to check on equipment operation. Recommended to be conducted on a quarterly basis, or as indicated by the manufacturer. Includes all checks noted in AS 4685.0:2017 clause no. 8.5.3 routine visual and check for: Excess wear on moving parts Bolts and fasteners secure Structural integrity test (e.g., push-pull) Foundations for exposed concrete, rot, and corrosion	The playground Standard requires a competent inspector to conduct Annual Inspections and submit a report. This work is specialised and requires extensive experience at a professional level. These inspections will be conducted by people who are Level 3 Comprehensive Inspectorqualified. Routine and minor maintenance actions will be undertaken as required based on Level 1, 2 or 3 inspections.

12.8.3.4 Depreciation and degradation curves

Playground assets and component use a straight-line depreciation and degradation curve.

12.8.4 Roles and responsibilities

Service Manager: Manager Sport and Recreation

Role	Lifecycle	Function	Responsible	Activities
Service Management	Planning	Service Planning	Manager Sport and Recreation	Ensure service linkage to CSP. Define service needs. Determine service hierarchy. Analyse capacity and demand Summarise service-related legislative requirements. Establish customer levels of service. Determine asset requirements for service
management	Operation	Service Operations	Manager Sport and Recreation Service Manager – site specific	Act as customer liaison for service Provide website information and communications. Initiate notifications for service interruptions Undertake functional assessment.



Role	Lifecycle	Function	Responsible	Activities
				Monitor and manage service and asset utilisation
				Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast.
	Planning and End of	Asset Acquisitions	Manager Sport and	Engage with stakeholder on acquisition and disposal plan
	Life	and	Recreation	Arrange relocation or transition of service
	Lile	Disposals		Arrange establishment or termination of agreements (utilities)
				Inform Planning Proposal, Development Control Plan and LEP amendments
			Manager	Complete condition and performance assessment
		Asset	Infrastructure Strategy &	Assess asset related legislative requirements
		Planning	Planning	Coordinate scope preparation
				Asset review
				Renewal planning
Asset	Planning	Asset Data	Monagor	Administration of asset register
management	Flaming		Manager Infrastructure Strategy & Planning	Updates for capital improvements
				Initiate asset disposal system process Prepare asset management plan
				Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy & Planning	Revaluation
				Unit rates
				Estimates
				Monitor expenditure
		Project Sponsor	Director Community Services	Capital expenditure review (OLG)
			Manager	Define the problem/need
				Options assessment
		Asset Concept	Sport and	Feasibility Lifecycle costing
		Оопосре	Recreation	Funding strategy
				Business case/proposal
Project	Delivory		Manager	Oversee project as part of program
Delivery	Delivery		Open Space	Responsible for managing overall
			and Environmental	program costs, risks, progress
		Program Management	Services	
			Manager	
			Project Delivery	
		Asset	Manager	Ensure design solutions align with
		Design	Sport and Recreation	Strategy Options analysis
			recreation	Options analysis



Role	Lifecycle	Function	Responsible	Activities
			Manager Project Delivery (District and Regional)	Concepts Design development Cost estimating Complete safety in design report Approvals process
		Asset Delivery	Manager Open Space and Environmental Services Manager Project Delivery (District and Regional)	Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Oversee project commissioning and handover
Maintenance and	Maintenance	Asset Maintenance	Manager Open Space and Environmental Services	Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works
Operation Management	Operation	Asset Operations	Manager Open Space and Environmental Services	Utility management Compliance audits



12.8.5 Performance

We monitor the performance of our playground assets by:

- Condition the actual physical and technical state of the asset.
- Functionality the ability of the physical infrastructure to meet service needs including social, environmental, and economic performance.
- Capacity the ability of the physical infrastructure to meet demand.

Playgrounds are comprehensively inspected on an annual basis and high priority repairs undertaken. Informal inspections are undertaken throughout the year to monitor for any maintenance requirements. A business proposed we be undertaken to consider funding more frequent inspections to increase the level of service.

12.8.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey includes results relating to playground as part of the facility questions. The results of the community survey indicate minor changes in usage patterns of playgrounds over the multiple surveys as shown below in Table 12.8.5.1 (a):

Table 12.8.5.1 (a) - Playground Community Usage Data

FACILITY USAGE RATE	2017	2019	2021	2023	CHANGE SINCE 2021
Children's playgrounds	48%	45%	51%	47%	-4

Table 12.8.5.1 (b) provides a summary of the community satisfaction with playgrounds, indicating a stable satisfaction rating over recent years:

Table 12.8.5.1 (b) - Playground Community Satisfaction Data

FACILITIES	2010	2012	2014	2017	2019	2021	2023	CHANGE SINCE 2021
Children's playgrounds	-	4.1	4.1	3.9	3.9	3.9	3.9	\$

12.8.5.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Customer Lev	els of Service			
Safety	Playgrounds are safe for use	Number of claims alleging injury or damage associated with condition of a playground	Playground condition not found to have contributed injury or damage.	
Function	Playgrounds are fit for purpose	Playgrounds are operating with the expected useful life range	Less than 2.5% of playgrounds exceeding the useful life.	



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Capacity	Playground provision meets the needs of the community	Asset plan aligns with strategy for provision	Plans for new, upgrade and decommissioning of playgrounds included in program	
Serviceability	Playgrounds are available for use	The number of playgrounds is in serviceable condition.	No playgrounds closed for longer than 4 weeks, except those identified for decommissioning	
Utilisation	The community is using playground assets	Community survey	Less than 10% reduction in utilisation between community surveys	A reduction from 51% to 47% in utilisation from 2021 to 2023 was recorded. That is an overall reduction of 8%. Target achieved
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey Direct Services – Internal Benchmark for children's playgrounds	No significant decrease in average satisfaction results to previous survey	The satisfaction rating for children's playgrounds remained at 3.9 across the 2021 and 2023 survey. Target achieved ©
Residents' Wish List	The community do not see this asset group or associated service as an area of focus for council over the next 4-years	Community survey internal benchmark – "In your view what are the three key areas you think Council should focus on over the next four years?"	Less than 10% increase on the previous percentage.	Parks, sporting fields and playgrounds were ranked three in terms of priority. The percentage decreased from 23% to 19% between 2023 and 2021. Target achieved ©
Technical Lev	els of Service			
	Level 1 routine inspection	With planned maintenance activities at the playground	75% compliance	
Condition Inspection	Level 2 operational inspection	Quarterly	75% compliance	These inspections are undertaken in conjunction with level 3 inspections. Target not achieved
	Level 3 annual	Annually or as required if identified in a level 1 or 2 inspection	100% compliance	Target achieved ©



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Removal of Algae and/or Moss	Clean and remove buildup of algae and/or moss on rubber soft fall	Identified as part of Level 2 operational inspections	Removed within 4 months	
Rubber soft fall cleaning	Remove built up debris on surface of the soft fall to prevent accelerated deterioration	Identified as part of level 1 inspections	Debris removed within 4 weeks	
Playground signage	Visual inspection	Signage is in place and remains legible	100% compliance	
Manufacturer maintenance actions	Undertake maintenance activities as recommended by manufacturer for functional service (lubrication, tensioning, tightening, etc)	As required	Activities completed to ensure equipment remains functional and prevent accelerated deterioration	
Vegetation	Removal of self- propagated vegetation from playground area	Lack of vegetation growing within the playground area	Removal with level 1 inspection or within 4 weeks of report	
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Playgrounds with high maintenance costs identified for major maintenance program or renewal.	
Risk	Playgrounds are maintained within a tolerable risk profile.	Risk assessment of playgrounds to be undertaken.	All playgrounds managed in accordance with the infrastructure risk appetite statement	
		Percentage of identified renewals funded		
Performance	Asset management actions and funding allocation supports long-term	Percentage of planned renewals completed		
	sustainability	Percentage of identified proactive maintenance works completed		

12.8.5.3 Legislative Requirements

The following legislative requirements are associated with playgrounds:

- Smoke-free Environment Act 2000
- Civil Liability Act 2002
- Local Government Act 1993





12.8.6 Future Investments

12.8.6.1 Acquisition and Upgrade Plans

The West Dapto contribution plan identifies open space, and recreation needs to support the growing community. The following list includes the work items from the plan that are anticipated to include playgrounds within open space. Note that the cost of works includes additional items beyond the scope of playgrounds so an estimated cost of the playground component using the rates from the playground hierarchy is provided. The timing is forecast based on estimated rate of development:

Ref	Item	Indicative location	General Description	land area (ha)	Timing	Cost of Works	Estimated value of playground
Stage 1	-2 Darkes Town C	entre					
OS01	City wide sports park	Adjacent to Darkes Town Centre and conservation land	City wide competitive sporting facilities including 2 AFL/cricket fields or four rugby fields and passive recreation	9.4	2021/22 - 2025/26	5,384,348	\$220,500 - \$441,000
OS02	Local Park	On ridge to east of Darkes Town Centre	Passive open space including pathways and seating	10.23	2019/20 – 2022/23	1,271,304	Up to \$73,500
Stage 1	-2 Sheaffes - Wor	ngawilli			•	•	
OS06	Neighbourhood Park	Adjacent to Wongawilli Village Centre - along West Dapto Road	Active (2ha formal playing fields) and passive (2ha) open space	4	2019/20 – 2022/23	1,794,783	\$73,500- \$220,500
OS07	Local Park	Within residential area - western end of Sheaffes Road	Active and passive open space including one informal playing field	2	2021/22 – 2025/26	1,121,739	Up to \$73,500
OS08	Local Park	Within residential area - along West Dapto Road & south of the railway line	Active and passive open space including one informal playing field	2	2021/22 – 2025/26	1,121,739	Up to \$73,500
Stage 1	-2 West Horsley				•	•	



Ref	Item	Indicative location	General Description	land area (ha)	Timing	Cost of Works	Estimated value of playground
OS10	Neighbourhood Park	Adjacent to Jersey Farm Village Centre	Active (2ha formal playing fields) and passive (2ha) open space	4	2026/27 - 2028/29	1,794,783	\$73,500- \$220,500
OS11	Neighbourhood Park	Adjacent to Bong Bong Town Centre	Active (1-2ha formal playing fields) and passive (1-2ha) open space	3	2036/37 - 2040/41	4,412,174	\$73,500- \$220,500
OS12	Local Park	Within residential area - along Haynes Lane	Active and passive open space including one informal playing field	2	2021/22 - 2025/26	1,121,739	Up to \$73,500
Stage 3	Cleveland				•	•	
OS13	Community leisure and recreation centre	Southern side of Cleveland Road adjacent Daisy Bank Drive	Active open space including 12 Netball Courts and 8 Tennis Courts	N/A	2036/37 – 2040/41	2,683,008	\$220,500 - \$441,000
OS14	Local Park	Within residential area - south of the western end of Bong Bong Road	Active and passive open space including one informal playing field	1.5	2026/27 – 2030/31	841,304	Up to \$73,500
OS15	Local Park	Within residential area - north of the western end of Cleveland Road	Passive open space including embellishment	1	2026/27 – 2030/31	560,870	Up to \$73,500
OS16	Neighbourhood Park	Adjacent to Community Leisure & Recreation Centre	Active (2ha formal playing fields x 4) and passive (2ha) open space	4	2036/37 – 2040/41	1,944,348	\$73,500- \$220,500
OS17	Local Park	Within residential areas - south of Cleveland Road	Active and passive open space including one informal playing field	2	2046/47 – 2050/51	1,121,739	Up to \$73,500
OS18	Local Park	Within residential areas - northern side, far western end of Cleveland Road	Active and passive open space including one informal playing field	2	2046/47 – 2050/51	1,121,739	Up to \$73,500
Stage 4	Avondale						
OS19	Neighbourhood Park	Adjacent to Huntley Village Centre and residential area	Active (2ha formal playing fields) and passive (2ha) open space	4	2045/46 – 2050/51	1,944,348	\$73,500- \$220,500

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Ref	Item	Indicative location	General Description	land area (ha)	Timing	Cost of Works	Estimated value of playground
OS20	Neighbourhood Park	Adjacent to Avondale Village Centre and residential area	Active (2ha formal playing fields) and passive (2ha) open space	4	2045/46 – 2050/51	1,944,348	\$73,500- \$220,500
OS21	Local Park	Within residential areas - along Avondale Road & west of South Avondale Road	Active and passive open space including one informal playing field	2	2046/47 – 2051/52	1,121,739	Up to \$73,500
OS22	Local Park	Within residential areas - southern side along Avondale Road	Active and passive open space including one informal playing field	2	2046/47 – 2051/52	1,121,739	Up to \$73,500
Stage 5	Yallah - Marshall	Mount					
OS23	Neighbourhood Park	North side along Marshall Mount Road & adjacent to Marshall Mount Town centre	Active (2ha formal playing fields) and passive (2ha) open space	4	2031/32 - 2035/36	1,944,348	\$73,500- \$220,500
OS24	Local Park	Within residential areas - along the western end of Marshall Mount Road	Active and passive open space including one informal playing field	2	2031/32 - 2035/36	1,121,739	Up to \$73,500
OS25	Local Park	Within residential areas - along the northern end of Marshall Mount Road	Active and passive open space including one informal playing field	2	2031/32 - 2035/36	1,121,739	Up to \$73,500



12.8.6.2 Upgrade Works

The replacement of the existing playground asset with a modern equivalent playground is considered a renewal. Standards have changed over time and as playgrounds are renewed, we comply with current standards. The gross replacement cost is determined as the value of playground equipment providing a modern equivalent level of service to the current equipment.

The level of service for play spaces has changed over time, and several existing playgrounds planned for renewal fall short of current expectations. In some instances, we are likely to plan for additional works to meet current expectations of a modern play space over and above the cost of equipment renewal. This may include concrete edging for the playground area, change in softfall material, provision of seating and other open space infrastructure. These works are considered an upgrade and expansion. Note that the ancillary items will be reflected in open space assets, only the playground equipment, soft fall and edging will be reflected in the playground asset plan. However, for simplicity we will recognise the playground project cost as part of this plan, and once delivered, recognise the delivered assets to the respective asset classification. The combined cost of the renewal and the upgrade is considered as the project cost. The cost of upgrade and expansion will be separately identified, and an appropriate funding strategy developed.

Each play space site has been assessed and those that are assessed as not meeting the current level of service will be planned as an upgrade, and those that meet the expected service levels will be planned at renewal cost of equipment and softfall in the future investment plan.

12.8.6.3 Renewals

The estimated annual renewal requirement for playgrounds is currently \$3.2million. This is based on the current portfolio of playgrounds, the likely upgrade works, and the approach of specifying rubber softfall. By reviewing the service level and specifying the use of mulch and/or rubber depending on the playground hierarchy, the annual renewal estimate reduces to \$2.25million.

We are currently investing an annual average of \$1.1million. There are several playgrounds in service that have far exceeded the desirable service life. Whilst these playgrounds are monitored and maintained to ensure they remain safe; they are considered renewal backlog. The current level of renewal investment is insufficient based on the desired level of service and distribution of playgrounds.

The revision of the play strategy will need to consider the funding currently invested into expanding and renewing playgrounds and what opportunities exist to address the shortfall.

12.8.6.4 Decommissioning and Disposal Planning

Playgrounds provide a valuable service to encourage activity and cognitive development, however an oversupply comes at a significant lifecycle cost to the community. The primary driver for decommissioning of playgrounds will be based around excess supply and availability of alternate play spaces within an acceptable catchment area. The identification of catchments and hierarchy of playgrounds is undertaken as part of the Play Wollongong strategy. Playgrounds identified for decommissioning through strategic review will be planned for removal based on condition, age and/or serviceability. When play spaces are identified for consolidation, the condition of the existing equipment will continue to be monitored, and once it fails to meet the required technical standard (age exceeds service life; defects/damage sustained that is not feasible to repair), then the playground will be programmed for removal.

As part of the review of age profile for the asset management plan, several locations have been identified for review to determine if continued provision of a play space is still appropriate. The locations are typically





within proximity to other play spaces, are poorly sited from a crime prevention through environmental design, and/or located near to other infrastructure that is not complementary to play spaces.

Sites identified for decommissioning as part of the Play Strategy will be reflected in this plan, including the provisions in the financial investment required over the 10-year period. The timing of the decommissioning will be based on the remaining useful life of the existing equipment, or as described in the Strategy. We will include the costs for removal and make-good of the site following removal of the equipment.

In addition to the planned decommissioning defined above, on occasion playgrounds may need to be decommissioned for unforeseen reasons, including:

- Obsolescence of equipment and/or spare parts.
- Change in safety standards.
- Damage through storm, accident, or vandalism.

If the location of the unforeseen decommissioning is identified to continue as a play space, replacement equipment will be prioritised as part of the infrastructure renewal program.

Play space utilisation and distribution will be further reviewed in conjunction with the play strategy. The strategy my identify playgrounds for decommissioning.



12.8.6.5 Future investment plan - Playgrounds

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Required Maintenance and Operating	1,543,923	1,543,923	1,543,923	1,543,923	1,543,923	1,567,811	1,589,310	1,598,865	1,598,865	1,598,865	1,598,865
Depreciation	1,506,955	1,506,955	1,506,955	1,506,955	1,506,955	1,530,271	1,551,255	1,560,581	1,560,581	1,560,581	1,560,581
Operating expenditure	3,050,878	3,050,878	3,050,878	3,050,878	3,050,878	3,098,081	3,140,564	3,159,445	3,159,445	3,159,445	3,159,445
Renewal works	1,057,000	995,000	1,000,000	1,000,000	1,000,000	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000	1,300,000
Upgrade works	-	-	-	-	-	200,000	200,000	200,000	200,000	200,000	200,000
Expansion works	-	-	-	-	-	-	-	-	-	-	-
New Works	-	-	-	-	-	-	-	-	-	-	-
Capital expenditure	1,057,000	995,000	1,000,000	1,000,000	1,000,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Totals	4,107,878	4,045,878	4,050,878	4,050,878	4,050,878	4,598,081	4,640,564	4,659,445	4,659,445	4,659,445	4,659,445
Estimated Required Renewals	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000
Planned renewal as a % of estimated required	47%	44%	44%	44%	44%	67%	67%	67%	67%	67%	67%

Note: most of the playground being replaced are partial renewal, upgrade, and expansion. An estimate of 50% of the upgrade work has been included as an expansion and it adds to the value of the portfolio in subsequent years and proportionally increases the maintenance and depreciation expense.



12.8.7 Playground Infrastructure Improvement Program

Item	Issue	Description	Responsible	Timing
8.1	Play Wollongong Strategy	Strategy is scheduled for review	Sport and Recreation	2026
8.2	Review usage of soft fall material	The standardised specification of rubber has a significant capital and depreciation implication. It may have lower maintenance costs; however the full lifecycle costs of alternate options needs to be reviewed.	Sport and Recreation (Lead) Open Space and Environmental Services Infrastructure Strategy and Planning	2025
8.3	Establish play services standards linked to hierarchy	The strategy provides some description relating to the hierarchy. It is beneficial to articulate the expected provision of infrastructure based on hierarchy.	Sport and Recreation	2026
8.4	Play strategy to include all council owned play spaces such as tourist parks, pools, and community buildings.	The current strategy refers to play spaces in tourist parks however strategic planning is required for other council operated locations that provide play spaces as part of the service provision.	Sport and Recreation	2026
8.5	Strategy to plan provision in growth areas	Our Local Strategic Planning Statements forecast growth across Wollongong. The West Dapto Development Contributions Plan reviews the additional demand and forecasts the requirements for open space and recreation, including playgrounds. The strategy should provide guidance on the standard and provision for these proposed spaces to inform developers of the requirements.	Sport and Recreation	2026
8.6	Review inspection frequency	Review the frequency and arrangements for Level 1, 2 and 3 inspections to manage risk and safety of playground assets.	Open Space and Environmental Services	2025
8.7	Condition and Useful life	The network requires assessment of condition and remaining useful life.	MISP	2026
8.8	Shade Provision	Review the provision of shade at playgrounds to align with the Urban Greening Strategy		



12.9 Pool Structures

The provision of pools is a fundamental component of the Aquatic Services provided by Council. We operate two heated swimming pool locations at Dapto and Corrimal, six community swimming pool facilities located at Helensburgh, Thirroul, Western Suburbs (Unanderra), Continental Baths Wollongong, Port Kembla, and Berkeley, and one heated indoor pool at Beaton Park Leisure Centre. Aquatic Services also provides pool lifeguard services at these locations.

Council manages nine ocean rock pool sites situated at Coalcliff, Wombarra, Coledale, Austinmer, Bulli, Woonona, Bellambi, Towradgi, and Wollongong Gentleman's pool.

This section of the asset plan details our pool assets. Pools are part of our Open Space infrastructure classification. This group of assets focusses on the pool structure. The buildings, car parks and ancillary assets associated with the swimming pool complexes are covered in the respective sections of the asset plan. This is consistent with the Office of Local Government Report on Infrastructure guidelines.

Council carries out planning for renewal and maintenance of the public pools, including delivery of supporting infrastructure, such as amenity and change facilities, lighting, seating, and lifeguard facilities.

12.9.1 Profile

Community Strategic Plan Goal: Goal 4: We have a healthy, respectful, and inclusive community

Service: Aquatic Services & Leisure Centres

Pools are associated with the Aquatic Services service, and the assets are intended to deliver on our 10year vision for pools:

"Wollongong City is host to a variety of highly used diverse and appealing aquatic recreational opportunities that meet our community's needs of today and their desires of tomorrow."

The Aquatic Services has four delivery streams:

- 1. Community Pools
- 2. Commercial Heated Pools
- 3. Lifeguard Services
- 4. Ocean Rock Pools

One heated indoor pool is located at Beaton Park Leisure Centre,

The Lifeguard Services are associated with the operation of 17 patrolled beaches throughout Wollongong. The lifeguard service provided at the community pools and commercial heated pools is included in each of the respective delivery streams.

The service is guided by *The Future of our Pools Strategy 2014-2024* supporting document. The strategy is scheduled for review; however, the current document remains current and is a reference for this asset management plan.



12.9.2 Strategic priorities

The Future of our Pools Principles	Delivery Stream Actions	Supporting Documents
DIVERSITY: A diverse range of aquatic recreation opportunities are available for all to enjoy, assisting in promoting healthy living. ENGAGEMENT: Our community is involved in the planning, use and renewal of our aquatic facilities. PROMOTION: Our community and visitors have access to current information on our city's aquatic recreation opportunities. SUSTAINABILITY: A sustainable based approach is undertaken in the planning and management of our current and future aquatic facilities. EFFECTIVE MANAGEMENT: Our pools are effectively managed with a strong focus	 Community Pools: Day to day operations and maintenance of six community pools located at Helensburgh, Thirroul, Western Suburbs, Continental Baths, Port Kembla, and Berkeley. Provide a diverse range of aquatic recreation opportunities are available for all to enjoy, assisting in promoting healthy living. Ensure our community is involved in the planning, use and renewal of our aquatic facilities. Ensure our community and visitors have access to current information on our city's aquatic recreation opportunities. Ensure our pools are effectively managed with a strong focus on the customer's experience and public safety. Undertake a sustainable based approach in the planning and management of our current and future aquatic facilities. The primary function/ output of these community pools is to provide affordable recreational swimming opportunities for the community. Provide facilities maintained and operated in accordance with New South Wales Public Health Guidelines and the New South Wales Government's Water Safety Practice Note 15 (October 2017). Provide capacity for pool facilities to conduct programs (e.g. learn to swim and squad training) and to be hired by accredited coaches, schools, recreation and community groups. 	 The Future of our Pools Strategy 2014-2024 West Dapto Contributions Plan Wollongong City-Wide Development Contributions Plan (not currently included) Asset Management Strategy
on the customer's experience	Commercial Heated Pools:	
and public safety. PARTNERSHIPS: We are	Operate and maintain Corrimal and Dapto heated pools.	
open to exploring partnerships which value-add to our aquatic recreation opportunities.	 Provision of year-round access to recreational swimming opportunities for the community, schools, and swimming groups/clubs. 	
	 Provide facilities that are maintained and operated in accordance with New South Wales Public Health Guidelines and the New South Wales Government's Water Safety Practice Note15 (October 2017). 	
	 Provide capacity for pool facilities to conduct programs (e.g. learn to swim and squad training) and to be hired by 	



The Future of our Pools Principles	Delivery Stream Actions	Supporting Documents
	accredited coaches, schools, recreation, and community groups	
	Ocean Pools	
	Maintenance of nine ocean rock pools.	
	Offer clean swimming facilities to the public (cleaning schedule delivered by City Works and varies dependent on season and tides. It is estimated in summer; the cleaning schedule is once per month per pool).	
	Maintain Ocean Rock Pool Infrastructure at an appropriate standard to allow safe community access year-round.	

12.9.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Aquatic Services relating to pools. The strategic response as it relates to pool structure assets, and the consequences of not funding the impact is summarised below.

Future Impacts	Strategic Response	Consequences of Not Funding		
Challenge of ageing swimming pools	Review The Future of our Pools Strategy to identify the strategy for each site. Plan for renewal required works as part of the Infrastructure Delivery Program (IDP) over a 4-year period. This asset management plan informs the IDP and provides guidance on priority locations based on condition and age.	Not funding renewals at the required intervention point may result in the interruption of the service at a particular site. The frequency of inspections and operational costs are likely to increase. Deferring renewals is likely to increase maintenance costs and		
		frequency of minor repairs to prevent total failure.		
Increasing annual maintenance and operational costs	Council has implemented a strategic purchasing approach for the supply of materials and chemicals. A detailed condition assessment of the Dapto Pool site has been undertaken to prepare a planned maintenance program. The activity list will inform the required actions and interventions at other sites. The intention is to reduce the costs associated with reactive maintenance and improve	Not funding the increase in maintenance costs will result in a reduction in frequency and range of maintenance services able to be completed. Not funding the increase in maintenance costs will increase the likelihood of:		
	reliability of the service.	Non-compliance with the New South Wales Public Health		



Future Impacts	Strategic Response	Consequences of Not Funding
	A review of the maintenance service approach will be undertaken in association with the review of the Strategy.	Guidelines and the New South Wales Government's Water Safety Practice Note15 down-time due to failures premature renewal requirement
Falling attendance	Patronage gradually declined over the 6-year period between 2007-2013, dropping by 17%. Despite falling attendances, annual visitation for all pools, except Berkeley and Beaton Park, far exceeds industry benchmark comparisons. It is likely that free entry is a major contributor to attendance levels with four of the five most highly patronised pools having free admission. Three of these are supervised ocean pools.	Falling attendance and increasing costs over time results in a higher subsidy per visitation at pools.
Need for modern facilities	The primary focus in modern aquatic facility design is on expanding the facility mix to include a combination of 'wet' and 'dry' options. These include heated water spaces that accommodate a range of activities such as lap swimming, aquatic programs/ learn-to-swim, adventure water, 'leisure water' with interactive water play elements and beach entry, café with quality furnishings and menu choices, merchandising/ retail areas, health and fitness centres, wellness services, multipurpose program spaces and meeting rooms. These types of facilities provide more reasons for people to visit and stay longer, thus facility viability is improved.	Community satisfaction associated with Aquatic Services may decline. Patrons may look for other facilities that meet their requirements.
Demand for longer season times and/ or opening hours	September to April is the common season for outdoor pools with winter closures. There is demand for people wanting to access pools before and after work.	The demand for longer season and longer opening times increases the operational costs associated with the service. Not funding the request will not increase costs



Future Impacts	Strategic Response	Consequences of Not Funding
	Ocean Pools and Heated pools are open year-round.	
The West Dapto Community Leisure and Recreation Centre Needs assessment has identified that a multipurpose facility will need to be developed in the coming ten years to service the existing and future Dapto and West Dapto communities.	The West Dapto Development Contributions Plan outlines the estimated cost and timing of delivery at 2036/37 – 2040/41.	The recreation needs to support the growth in the West Dapto catchment may not be met.
Electrification of pool heating infrastructure	The Net Zero Wollongong Climate Change Mitigation Plan outlines the emissions reduction targets, which should have reduced operating costs.	Pools are some of the major gas consuming sites operated by Council. Failing to fund electrification of pool heating will create challenges in achieving emissions targets.

12.9.2.2 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications will create changes in demand that influences our planning associated with pools, as summarised in Table 12.9.2.2:

Table 12.9.2.2 – Future Demand for Stormwater Infrastructure

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of	The Plan identifies the formal open space and recreation facilities required to support the future population including a community recreation and leisure centre in Cleveland.	The main area of growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the community facilities required to support	The West Dapto contribution plan identifies the infrastructure and funding required to meet the demand. This plan integrates the contributions plan forecasts.



	more than 30,000 people.		the growth and the funding contributions from development towards the recommended infrastructure.	The provision of a community leisure and recreation centre at Cleveland will consider the needs for aquatic services.
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may create additional demand and capacity issues for existing pool infrastructure.	The Pool Strategy provides a strategic review of demand and indicates that capacity needs are met.	Capacity needs are currently met/ exceeded by current provision

12.9.2.3 Pool Types

Pools are categorised according to the service provided as each location. The following table and the designation of pool type is used to define the delivery stream and services provided:

Hierarchy	Features
Commercial Heated	Council owns, plans, maintains and services two heated pools located at Dapto and Corrimal. These swimming pools operate year-round on a user pays model that provides a partial subsidy toward the cost of heating these facilities.
Community Pools	The provision of safe, well maintained, and accessible aquatic recreation facilities. Council owns and maintains six community swimming pools located at Helensburgh, Thirroul, Western Suburbs, Continental Baths, Port Kembla, and Berkeley. These swimming pools operate on a seasonal basis and are free to access by the community. Continental Baths and Port Kembla are saltwater pools.
Indoor Heated Pool	Heated indoor pool providing public swimming, learn to swim, aquarobics. This pool is part of the Beaton Park Leisure Centre under an operating lease arrangement.
Tidal Rock Pools	Council maintains nine ocean rock pool sites situated at Coalcliff, Wombarra, Coledale, Austinmer, Bulli, Woonona, Bellambi, Towradgi, and Wollongong Gents pool. Councils tidal rock pools are popular with local early morning and evening lap swimmers. Many of our tidal rock pools are home to several winter swimming clubs. Our tidal rock pools are also popular with visitors to the region. There is no lifeguard service at our rock pools.



12.9.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Swimming Pools, Other Open

Last comprehensive revaluation: 30/06/2021

Valuation Information: – Valuation Technique – Swimming Pools and Rock Pools are valued using the cost approach, which equates to the current replacement cost of a modern equivalent asset.

Fair Value Hierarchy - the general valuation approach to determine the fair value of Council's swimming pool inventory is to determine a unit rate based on square metres corroborated by market evidence (Level 2 input). A process is then undertaken to compare these rates with internal unit rates derived by Council because of specific work that has been undertaken. Further to this other input such as asset condition and useful life require a significant level of professional judgement and can impact significantly on the fair value. As such the level of valuation input for these properties was considered level 3.

Asset	Financial Reporting Group	Qty	Av Useful Life (Years)	Carrying Value (\$) @ 30 June	Annual Depreciation 2024	Current Asset Cost
Pool Concourse		16	49	6,853,317	420,974	17,786,316
	Other	1	61			
	Other Open Space/Recreational Assets	15	49			
Pool Plant*		27	28	4,035,473	334,359	10,131,044
	Other Open Space/Recreational Assets	25	28			
	Plant and Equipment	1	10			
	Swimming Pools	1	50			
Pool Structure		21	53	14,563,939	725,601	52,246,840
	Other Open Space/Recreational Assets	1	15			
	Swimming Pools	20	55			
Grand Total		64*	42	25,452,729	1,480,934	80,164,200

^{*} A number of pool assets are grouped per location – quantity reflects the number of asset records



12.9.3.1 Components and attributes

Pools are recognised at component level depending on the complexity of the structure, including:

- Structure (shell)
- Concourse
- Plant

The ancillary and supporting assets at pool facilities such as kiosks, amenities, car parks and alike are listed in the respective asset plans.

12.9.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5. A review of the Aquatic Services & Leisure Centres identified that it is a critical service. This asset plan is related to pool structures - there are no assets under this grouping that are considered critical to supporting the aquatic service.

12.9.3.3 Operation and maintenance requirements

Routine inspections and maintenance actions are required to keep pools functional and to ensure they remain serviceable to meet the expected useful life, including those listed below:

- routine inspections
- water sampling
- · expansion joint
- removal of vegetation and debris
- waterproofing
- lifting equipment
- lane ropes
- filtration
- sanitation maintenance

12.9.3.4 Depreciation and degradation curves

Pool assets and components use a straight-line depreciation and a straight-line degradation profile.

12.9.4 Roles and responsibilities

Service Manager: Manager Sport and Recreatior

Role	Lifecycle	Function	Responsibility	Ac	tivities
				•	Ensure service linkage to CSP
Service Service Service	Service	Manager Sport	•	Define service needs	
Management	1 Planning 1	•	Determine service hierarchy		
				•	Analyse capacity and demand



Role	Lifecycle	Function	Responsibility	Activities
				Summarise service-related legislative requirements Establish customer levels of
				service
				Determine asset requirements for service delivery
	Operation	Service Operations	Manager Sport and Recreation	 Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and
				Develop plan for acquisitions and disposals of assets aligned to
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Sport and Recreation	service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service
				Arrange establishment or termination of agreements (utilities)
		Asset Planning	Manager Sport and Recreation	Complete condition and performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal planning
Asset management	Asset	Asset Data	Manager Sport and Recreation	 Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	Manager Infrastructure Strategy and Planning	RevaluationUnit ratesEstimatesMonitor expenditure



Role	Lifecycle	Function	Responsibility	Activities
		Project Sponsor	Director Infrastructure + Works	Approval of project planOversee business proposalCapital expenditure review (OLG)
		Asset Concept	Manager Infrastructure Strategy and Planning	 Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
		Program Management	Manager Infrastructure Strategy and Planning	Oversee project as part of program Responsible for managing overall program costs, risks, progress
Project Delivery	Delivery	Asset Design	Manager Project Delivery	 Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process
		Asset Delivery	Manager Project Delivery	 Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Oversee project commissioning and handover
Maintenance and Operation Management	Maintenance	Asset Maintenance	Manager City Works	Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works
	Operation	Asset Operations	Manager Sport and Recreation	Aquatic services Lifeguards



12.9.5 Performance

We monitor the performance of our pool assets by:

- Condition the actual physical and technical state of the asset.
- Functionality the ability of the collection to meet service needs including social, environmental, and economic performance.
- Capacity the ability of the collection to meet demand.

By undertaking regular assessments, we determine which assets meet our levels of service and which require capital intervention – renewal, upgrade, or expansion – to meet service level thresholds.

Most of our pools were constructed between the 1960's and 1980's. With an average useful life of 55 years, many need a detailed review of the current condition to inform our plans. We have made provision to undertake assessments in conjunction with the review of the pool strategy.

We have encountered functional issues with some of our pool plant and equipment. We have also identified issues relating to gaps between current standards and site provisions. This will be further reviewed as part of the detailed work on the pool strategy.

12.9.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey includes results relating to pools as part of the facility questions. The results of the community survey indicate minor changes in usage patterns of pools as shown in Table 12.9.5.1 (a):

Table 12.9.5.1 (a) - Community Satisfaction Survey - Pool Utilisation

FACILITY USAGE RATE	2017	2019	2021	2023	CHANGE SINCE 2021
Tidal rock pools	56%	50%	52%	53%	+1
Public swimming pools (free entry)	43%	42%	52%	46%	-6
Leisure centres (Beaton Park and Lakeside)	25%	18%	33%	33%	
Council heated pools	28%	31%	31%	31%	-

Table 12.9.5.1 (b) below provides a summary of community satisfaction with pools, showing a consistent satisfaction except Beaton Park where there has been a slight decrease over the last 3-years:

Table 12.9.5.1 (b) - Community Satisfaction Survey

FACILITIES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Tidal rock pools	-	3.9	4.1	4.1	4.1	4.2	4.2	\$
Public swimming pools (free entry)	3.8	4.2	4.5	4.1	4.2	4.1	4.1	\$
Council heated pools	-	4.2	4.2	4.0	4.1	4.1	4.1	⇔
Leisure centres (Beaton Park and Lakeside)	4.0	4.2	4.3	3.9	4.2	4.1	3.9	¥



12.9.5.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance				
Customer Levels of Service								
Safety	Swimming pool structures are safe for use	Number of claims alleging injury or damage associated with condition of a pool structure	Pool structure condition not found to have contributed injury or damage.					
Function	Swimming pools are fit for purpose	No restrictions that unreasonably limits usability of the swimming pool structure	Down time of pool structure from service less than 5% of available hours					
Serviceability	Swimming Pool structures are available for use	Number of pools in serviceable condition.	No "closed" pools, except those identified for decommissioning					
Utilisation	Pool assets are being utilised by the community	Community survey - Facility Utilisation Rate for Tidal Rock Pools	Utilisation rate not reducing by more than 10% to previous survey	Utilisation of increased by from 52% to 53% Target achieved ©				
		Community survey - Facility Utilisation Rate for Public Swimming Pools (free entry)	Utilisation rate not reducing by more than 10% to previous survey	Utilisation of increased decreased from 52% to 46%. This is a 11.5% reduction. Target not achieved				
		Community survey – Facility Utilisation Rate for Council heated pools	Utilisation rate not reducing by more than 10% to previous survey	Utilisation remained constant at 31%. Target achieved ©				



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance				
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey Facilities – Internal Benchmark for Tidal rock pools	No significant decrease in average satisfaction results to previous survey	The results for 2023 remained the same as 2021, with a result of 4.2. Target achieved ©				
		Community survey Facilities – Internal Benchmark for Public Swimming Pools (free entry)	No significant decrease in average satisfaction results to previous survey	The results for 2023 remained the same as 2021, with a result of 4.1. Target achieved ©				
		Community survey Facilities – Internal Benchmark for Council heated pools	No significant decrease in average satisfaction results to previous survey	The results for 2023 remained the same as 2021, with a result of 4.1. Target achieved ©				
Residents' Wish List	The community do not see this asset group or associated service as an area of focus for council over the next 4-years	Community survey internal benchmark – "In your view what are the three key areas you think Council should focus on over the next four years?"	Less than 5% increase on previous percentage	Beaches, pools, and foreshore as a group increased from 8% to 9% between 2021 and 2023. Target achieved ©				
Technical Leve	Technical Levels of Service							
Condition Inspection	Level 1 condition assessment	Annual	75% compliance					
	Level 2 condition assessment	4-yearly	75% compliance					
Expansion joint	Clean and inspect elastomeric joints	Annually						
Waterproofing		As required	Waterproofing adequate to prevent accelerated deterioration	No known defects				



Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Health compliance				
Water quality maintenance				
Debris removal	Inspect and remove	With level 1 inspection and reactive		
Event damage	Level 1 inspection	Within 2 weeks of incident	100% compliance	Target met 😊
Sand removal from ocean pools	Depth of sand accretion			
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Assets with high maintenance costs identified for major maintenance program or renewal.	
Risk	Pools are maintained within a tolerable risk profile.	Risk assessment of assets to be undertaken.	All pools managed in accordance with the infrastructure risk appetite statement	
Performance	Asset management actions and funding allocation supports long-term sustainability	Percentage of identified renewals funded		
		Percentage of planned renewals completed		
		Percentage of identified proactive maintenance works completed		



12.9.5.3 Pool Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact pool infrastructure are summarised below:

Hazard	Risk Description	Likelihood	Conseque nce	Risk
Earthquake	Earthquake of significant strength (> Magnitude 7) that results in localised or widespread damage.	Rare	Major	High
Landslip / Mudflow / Rockfall	Landslip/mudflow/rockfall resulting in localised or widespread damage.	Likely	Moderate	High
Severe Storm/Storm Surge	Severe storm with accompanying lightning, hail, damaging winds, and/or rain that causes severe damage and/or localised flooding (includes tornado and waterspout) and coastal erosion.	Likely	Major	Extreme
Tsunami	A tsunami wave of magnitude that presents a risk to land and marine elements.	Rare	Major	High

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any pools impacted by the event.

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to pools are storms and sea-level rise. A summary of the actions from the CCAP and relation to pools is provide below.

Priority Ac	Priority Actions				
Hazard	Climate Change Adaptation Plan Action	Pool Action			
	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure			
Storms	Identify Council's business continuity plans (BCPs) and review and updated as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any changes to critical assets will be listed in revisions of the asset management plan, and appropriate management plans developed.			



Sea-level	Prepare and implement an Open Coast Coastal Management Program.	Implementation of infrastructure actions will be included in forecast expenditure. The current Wollongong Coastal Zone Management Plan 2017 (CZMP) identifies nine of our ocean pools with current considerable risk to erosion and sea level rise.
	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events.

12.9.5.4 Coastal Zone Management Plan

Our community has access to ocean pools in nine locations. The pools are mostly constructed within the intertidal rock platforms of the foreshore. A review of the hazards undertaken as part of the Coastal Zone Management Plan (CZMP) identified the locations most vulnerable to coastal threats. The ocean pools can be susceptible to sand build-up with Bulli requiring regular maintenance. Most of the ocean pools are overtopped during high tide. It is likely with sea level rise that some of the ocean pools will become permanently submerged. A summary of the current and future coastal risks associated with pools is provided below in table 10.9.6.4:

Table 10.9.6.4 - Pool Coastal Hazard Assessment

Location and Asset	Risk Now	Risk at 2050	Risk at 2100
Coledale Rock Pool; Austinmer Rock Pool; Thirroul Pool (heritage site); Thirroul Pool office and amenities; Thirroul Pool intake; Bellambi Pool; Towradgi Pool; Port Kembla Olympic Pool; and Port Kembla Pool amenities, kiosk and lifeguard tower.	High	Extreme	Extreme
Thirroul Pool toilet; Thirroul Pool storage shed (large); Bulli Pool; and Woonona Ocean Pool (Collins Point).	Medium	High	Extreme
Coalcliff Tidal Rock Pool (south end)	Medium	High	High
Wombarra Rock Pool	Medium	Medium	High

The CZMP recommends reviewing each location to investigate the sensitivity to wave impact and sea level rise, and potential for future adaptation or modification. Once this work is completed, it may identify actions to be included in a future asset management plan. At this stage, there are no significant modification plans for ocean pools within the next 4 years.

12.9.5.5 Legislative Requirements

- Swimming Pools Regulation 2018
- The Public Health Act 2010 and Public Health Regulation 2022
- Environmental Planning & Assessment Act 1979
- Fisheries Management Act 1994
- Threatened Species Conservation Act 1995





- Noxious Weeds Act 1993
- Biosecurity Act 2015

12.9.6 Future Investments

12.9.6.1 New and Upgrade Plans

The provision of a community leisure and recreation centre at Cleveland will consider the needs for aquatic services. The indicative timing of the facility is likely to be beyond the period of this plan, with a forecast of 2036-2041. Advanced planning will need to commence within the period of this plan.

We have scheduled the design of upgrades at Corrimal and Western Suburbs Pool, and construction at Helensburgh within the next four-year period. A review of the pool strategy will determine the requirements for upgrades at the existing pool sites, set priorities and review timing of works.

12.9.6.2 Renewal Works

We have scheduled the design of renewal works at Continental Pool, Corrimal, Western Suburbs pools and Port Kembla Pool inlet pipe within the next four years. The scope and priority of these proposals will be reviewed based on a needs analysis and required funding. The following assets are identified as deferred renewals that require review and assessment of functionality. At this stage, the equipment will be managed with planned maintenance to determine the scope of renewal requirements and timing.

Details	Current Asset Cost
Pool Plant and Equipment - Corrimal Pool	918,813
Pool Plant and Equipment - Western Suburbs Pool - Parrish Memorial Park	635,388
Pool Plant and Equipment - Towradgi Rock Pool	9,775
Pool Plant and Equipment - Berkeley Pool	499,268
Pool Plant and Equipment - Bulli Rock Pool	13,440
Pool Plant and Equipment - Dapto Pool	682,309
Pool Plant and Equipment - Wombarra Rock Pool	3,665
Pool Plant and Equipment - Coledale Rock Pool	19,550
Pool Plant and Equipment - Bellambi Rock Pool	13,440
Pool Plant and Equipment - Helensburgh Pool	686,366
Pool Plant and Equipment - Continental Pool	153,348
Pool Plant and Equipment - Woonona Pool	373,901
Total	4,009,269

Many of our pools have been in service for over 40 years. Contemporary levels of service will be reviewed as part of the pool strategy. It is anticipated that as pool infrastructure reaches the end of service life, the expectations of renewal will bring changes in service level, and upgrade and/or expansion associated with the work. The strategy will look at supply and demand, hierarchy of the service and options to support the service into the future. At this point it is difficult to determine the priority of works and the cost implications,



however based on our understanding of the industry, the cost to provide facilities to a modern standard is significantly higher than the gross replacement cost of existing infrastructure.

Significant investment into the Electric Hot Water System at Dapto Pool, to replace boilers has been completed and replacement of heat pumps has been committed, awaiting delivery of the plant. Additional work is anticipated on associated pipework, valves, pumps and controls at end of life with new heat pumps, pipework, controls and associated equipment. In addition, the chlorination and filtration system require renewal. The total estimated cost of these works is \$1.2M.

The estimated current renewal investment required over the period of this plan is \$3.44M per year.

12.9.6.3 Decommissioning and Disposal Planning

There are no current plans for decommissioning and disposal of pools included in this asset grouping.



12.9.6.4 Future investment plan – Pool Structures

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	1,480,934	1,480,934	1,480,934	1,480,934	1,480,934	1,482,597	1,484,259	1,485,922	1,487,585	1,489,247	1,490,910
Required Maintenance works	1,907,908	1,907,908	1,907,908	1,907,908	1,907,908	1,910,050	1,912,192	1,914,334	1,916,476	1,918,618	1,920,760
Operating expenditure	3,388,842	3,388,842	3,388,842	3,388,842	3,388,842	3,392,647	3,396,451	3,400,256	3,404,061	3,407,865	3,411,670
Renewal works	1,000,000	6,000,000	3,250,000	500,000	6,010,000	2,892,500	2,907,600	2,923,022	2,938,815	2,959,029	2,979,850
Upgrade works	350,000	-	-	-	-	-	-	-	-	-	-
Expansion works	-	-	-	-	-	-	-	-	-	-	-
New works	-	-	-	-	-						
Capital expenditure	1,350,000	6,000,000	3,250,000	500,000	6,010,000	2,892,500	2,907,600	2,923,022	2,938,815	2,959,029	2,979,850
Totals	4,738,842	9,388,842	6,638,842	3,888,842	9,398,842	6,285,147	6,304,051	6,323,278	6,342,876	6,366,894	6,391,520
Estimated Required Renewals	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744	3,612,744
Planned renewal as a % of estimated required	37%	166%	90%	14%	166%	80%	80%	81%	81%	82%	177%



12.9.7 Pool Structures Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
9.1	Ocean pool resilience	Investigate the relative sensitivity of the pools to wave impacts and sea level rise, in addition to their current condition, maintenance regime, and community usage. Where necessary, future adaptation/modification should be identified (e.g. raise seaward parapet wall, modify inlet/outlet system etc.)	MISP	2026
9.2	Review of the pool strategy	The pool strategy will help inform direction for investment and management of pool assets.	MS&R	2025
9.3	Review condition and remaining useful life	There appears to be inconsistent estimates of useful life, impacting the calculated condition. It is recommended to undertake a detailed review of the condition of the pool portfolio in preparation for the review of the pool strategy.	MISP	2025
9.4	Asset Register Structure	A review of the asset register structure should be undertaken to ensure that it is fit for purpose prior to undertaking a full class revaluation. Assess compliance with the requirements of the Australian Accounting Standards Board standards for fair value and accounting for infrastructure, property, plant, and equipment to determine if proposed approach is fit for purpose. Consider individual assets for each pool shell as opposed to grouping.	MISP	2024
9.5	Data Dictionary	To support the structure of the asset register, prepare a data dictionary to provide guidance and consistency in classification, description, and attributes.	MISP	2024
9.6	Future growth of population to inform infrastructure planning	Ensure that the forecasted growth of areas of Wollongong are informing with an interactive live tool; the pool strategy and forward planning of asset maintenance/management.	MCS	2025



12.10 Buildings

The building asset management plan documents the strategic context and service provision to cater for levels of service relating to building safety, quality, quantity, availability, cleanliness, environmental sustainability, utilisation, and cost effectiveness into the future. We manage over 750 buildings that cater for a range of services including community facilities, art gallery, sports ground facilities, tourist parks, lifeguard towers and surf clubs, Rural Fire Service stations and State Emergency Services centres; operational buildings and commercial facilities.

12.10.1 Profile

Building assets are utilised to support the provision of each of the four goals in the community strategic plan. Most council services require the support of a building asset to operate. Buildings have a direct relationship to the associated services, as is the case for tourist parks, libraries, community facilities, where the building is integral to the service that is delivered. In other cases, a building indirectly supports the function of the service, such as sport field amenities, youth services, transport services. As a result of the wide relationship of services with buildings, there are several supporting documents and often more than one service supported by the building.

12.10.2 Strategic priorities

Buildings are guided and informed by the following strategic supporting documents:

- Places for People Wollongong Social Infrastructure Planning Framework
- Places for the Future Social Infrastructure Future Directions Plan
- Sportsgrounds and Sporting Facilities Strategy
- Disability Inclusion Action Plan
- Public Toilet Strategy
- Wollongong Community Safety Plan
- Net Zero Wollongong Climate Change Mitigation Plan
- West Dapto Contributions Plan
- Wollongong City-Wide Development Contributions Plan

The Places for People identifies the following key strategic framework and priorities:

Vision - Residents, workers and visitors will have access to quality, sustainable social infrastructure that meets their needs and reflects Wollongong's role as a leading regional city, now and into the future.

Guiding Principles:

- Holistic
- Strategic
- · Fit for purpose
- Equitable
- Quality
- Sustainable



The following table summarises the actions from the key supporting documents with a relationship to buildings and an assessment of the direct impact. The actions from the Places for the Future' Social Infrastructure: Future Directions Plan are the proposed future directions for each of the planning areas where recommended:

Supporting Document	Action	Resource Impact
	PA1- Helensburgh Community Centre and Library Secure appropriate site for a new colocated community centre and library; investigate feasibility; develop scope. Complete concept design, due diligence, and approvals processes. Final design, approvals, construction and commissioning of community centre and library.	Planning and feasibility work continue the proposals for community centre and library facilities in Helensburgh. These works are included in the current infrastructure delivery program.
	PA1 – Otford Community Hall Upgrade kitchen, car parking amenities to DDA standards.	A feasibility has been undertaken on upgrades to achieve the anticipated outcomes. Works are proposed in the current 4-year infrastructure delivery program.
Places for the Future' Social Infrastructure: Future Directions Plan	PA1 – Coalcliff Community Hall Review the condition, functionality, and capacity of the hall to meet the needs of the community. Consider options for colocation with local 'Supporting' social infrastructure to provide a contemporary facility.	The hall was assessed as having 30 years remaining useful life on the structure. Some components may require renewal within the next 10 years. A plan for the facility should be prepared prior to planning any renewals. This will require allocation of technical resources to undertake the assessment. These works are currently unfunded.
	PA1 – Helensburgh Community Centre and Youth Centre Demolish this facility during 2022/2023 due to intractable problems with air quality, damp, and mould. It will be replaced by the new community centre and library by 2027.	Feasibility and options are to be completed prior to proceeding with demolition of the building. This will require allocation of technical resources to undertake the assessment.
	PA2 – Thirroul Library & Community Centre Determine future use of former café space and design interface between library and community centre to increase connectivity and utilisation, including for library programs. Works to upgrade interface between library and community centre and convert café space to new purpose.	Funding is proposed in the 2025 program to remove a fixed wall between the library and the Ocean Breeze Room and the installation of a movable glass wall.



Supporting Document	Action	Resource Impact
	Review car park capacity and non-visitor use to identify options for improving access to parking.	
	PA4 – Corrimal Library and Community Centre Investigate opportunities to extend and update the facility to service projected future community needs, including options to better leverage the co-location of this facility with adjacent recreational infrastructure.	Feasibility assessment to be undertaken following a review of needs and functional assessment of the adjoining Corrimal pool site. This will require allocation of technical resources to undertake the assessment. These works are currently unfunded.
	PA4 – Fairy Meadow Community Centre Conduct needs analysis, to understand demographic change, future needs and aspirations of the Planning Area 4 community and determine future requirements of the Community Centre. Investigate feasibility, scope, and concept to extend and improve the capacity of this facility. Design, approvals, and construction to re- purpose/create contemporary community centre.	The existing facility has been assessed as having over 20 years of remaining useful life in the structure. There are components of the building that will need to be renewed within the next 10 years. The needs analysis should be prioritised to ensure a feasibility can be undertaken. This will require allocation of technical resources to undertake the assessment. These works are currently unfunded.
	PA5 – Wollongong Library Investigate design solutions to enhance functionality and delivery of contemporary library services. Investigate opportunities for co-location of library services with other Council community and cultural facilities.	Scope and requirements to be documented to enable feasibility and costing to be undertaken. This will require allocation of technical resources to undertake the assessment. These works are currently unfunded.
	PA5 - Wollongong Art Gallery Investigate opportunities to enhance the amenity and service scope of the gallery and its interface with the Arts Precinct with a café, including opportunities for colocation with other Council community and cultural facilities	Detailed condition assessment has been completed in 2024. This will help inform decisions on renewal requirements and coordination with any modifications proposed. Consideration needs to be given to heritage conservation requirements.
	PA5 – Illawarra Museum Investigate opportunities to enhance the amenity and functionality of the Museum, including opportunities for co-location with other Council community and cultural facilities.	Investigation works may require technical assessment and scope to inform a feasibility and cost plan. These works are currently unfunded.



Supporting Document	Action	Resource Impact
	PA5 – Wollongong Town Hall Review of access arrangements required to ensure the facility supports Council's Disability Inclusion Action Plan.	A detailed condition inspection has been completed at the Town Hall in 2024 with recommendations on improvements to access. Minor works to be considered as part of operational budgets, capital works will require planning and prioritising.
	PA7 – Unanderra Library and Unanderra Community Centre	
	Investigate opportunities to co-locate the library with the Figtree Community Hall. Investigate options to extend the footprint of the community centre into areas formerly occupied by the library building (subject to relocation of library). Design and construct to accommodate extended footprint of Unanderra Community Centre (subject to relocation of library).	Investigation works may require technical assessment and scope to inform a feasibility and cost plan. These works are currently unfunded.
	PA7 – Figtree Community Hall	
	Conduct needs analysis, to understand demographic change, future needs, and aspirations of the Planning Area 5 and 6 communities and determine future requirements for 'Foundation' social infrastructure for Planning Area 7. Investigate feasibility, scope, and concept to extend and re-purpose the hall into a colocated community centre and library.	Investigation works may require technical assessment and scope to inform a feasibility and cost plan. These works are currently unfunded.
	Design, approvals, and construction to repurpose hall as a co-located community centre and library.	
	PA7 – Darkes Town Centre Sports Park and Community Hub Secure land required to accommodate Darkes Town Centre Sports Park & Community Hub. Establish scope for Darkes Town Centre Sports Park and Community Centre. Construct and commission Darkes Town Centre Sports Park. Construct and commission Darkes Town Centre Community Centre	Works are included in the current infrastructure delivery program to commence design and planning.



Supporting Document	Action	Resource Impact
	PA8 – Dapto Ribbonwood Centre /Dapto Library Review design and functionality of Dapto Library to better integrate service delivery - Scoping and project design based on review. Design HVAC, lift replacement, lighting system upgrade, library refurbishment, amenities upgrade, and foyer and office refurbishment. Construct HVAC, lift replacement, lighting system upgrade, library refurbishment, amenities upgrade, library refurbishment, amenities upgrade, foyer, and office refurbishment.	Works are included in the current infrastructure delivery program to commence design and planning.
	PA10 – Wongawilli Hall Design and approvals to extend the footprint and upgrade hall amenities. Construct and commission hall improvements	Works are included in the current infrastructure delivery program to commence design and planning.
	PA10 - Part A Consider the recommendations of the Community Cultural and Open Space (CC&OS) Needs Analysis, to address the future needs and aspirations of the West Dapto community in determining future requirements for recreational, community and cultural 'foundation' social infrastructure. Preliminary assessment of needs indicates an additional community centre at Avondale. However this proposal requires further investigation.	The further investigation should consider lifecycle costs of options. This will require allocation of technical resources to undertake the assessment. These works are currently unfunded.
	PA10 - Bong Bong Town Centre Library and Community Centre Conduct feasibility study to identify appropriate site for community centre and library. Acquire site for new community centre and library. Complete scope and concept design for community centre and library. Construct and commission new community centre and library.	This will require allocation of technical resources to undertake the assessment and feasibility study. These works are currently unfunded.



Supporting Document	Action	Resource Impact
	PA10 – Yallah Marshall Mount Town Centre Community Centre Conduct feasibility, identify site, and secure land for community centre. Develop scope and complete concept design for the centre. Construct and commission new community centre.	This will require allocation of technical resources to undertake the assessment. These works are currently unfunded.
	1.1 Continue to collaborate with key stakeholders to provide contemporary amenities for sport, incorporating accessible and gender equitable features and storage facilities that are consistent with the sportsground hierarchy	Lifecycle costs to be considered in the planning for any upgrades, expansion and
	3.2 Ensure all new and renewed facilities are constructed in accordance with Council's Hierarchy system, Australian Standards and sport specific facility guidelines.	new facilities to meet the hierarchy.
Sportsgrounds and Sporting	4.4 Ensure all new sporting facilities and upgrades to existing, incorporate the principles of universal design and comply with access legislation including continuous accessible paths of travel to amenities, accessible parking and seating.	New facilities consider the requirements of the National Construction Code which includes provision for accessibility.
Facilities Strategy	4.7 Ensure all new infrastructure supports the needs of referees, umpires and volunteers.	Lifecycle costs to be considered in the planning for any upgrades, expansion and new facilities to meet the hierarchy.
	5 Strategically plan for the development of new sports facilities	These proposals are outlined in the West Dapto Vision.
	6.2 Prioritise the renewal and provision of new facilities to better accommodate female participation in sport.	
	8.2 Ensure regional facilities meet the required standards to host major regional, state or national level competitions, events and/or training.	Lifecycle costs to be considered in the planning for any upgrades, expansion and new facilities to meet the hierarchy.
	10.1 Ensure Council's regional sports facilities are provided with appropriate infrastructure to support the hosting of regional, state and national sports events	



Supporting Document	Action	Resource Impact
Disability Inclusion	Increase the number of accessible public toilets and accessible adult change facilities	Accessibility is included in the scope of all major renewal and new amenity project scopes.
Action Plan	Increase access to our buildings	Accessibility is included in the scope of all major renewal and new amenity project scopes. Minor upgrades to be completed on a priority basis.
	Public toilets are equitably distributed and strategically located through the replacement, upgrade and provision of new amenities and decommissioning.	Any works for the provision of new facilities to consider equitable distribution.
	The replacement, upgrade and provision of toilet facilities incorporate Crime Prevention through Environmental Design (CPTED) and Ecologically Sustainable Design (ESD) principles	CPTED and ESD are consideration as part design principles when developing concepts and detailed designs,
Public Toilet Strategy	Public toilets are accessible and consider the need of different ages, abilities, and cultures.	Accessibility is a consideration of the design for all major renewals and new builds. Minor upgrades to improve accessibility are to be considered as part of operational budgets.
	Consistent signage and information on public toilet availability and location is promoted and accessible to the community.	Minor upgrades to improve accessibility are to be considered as part of operational budgets.
	Public toilets are cleaned and maintained to defined service levels.	Development of service levels are recommended as part of this plan.
Wollongong	Conduct rapid removal of graffiti on Council assets	Development of service levels are recommended as part of this plan.
Community Safety Plan	Participate in arts-based graffiti prevention partnership projects	This action is to be considered as part of the scoping for building projects in locations with a history of graffiti.
Net Zero Wollongong Climate Change Mitigation Plan	LE5. Council buildings and facilities to incorporate low emissions design and performance standards.	Look at utilising industry tools to assess and specify design solutions that reduce emissions having regard for lifecycle costs.
	LE6. Power Council with 100% renewable energy	Move away from existing fitout that is powered by non-renewable energy such as gas. Electricity is already contracted for 100% renewable energy supplies.
Heritage Strategy 2023-2027	Implement the Wollongong Heritage Asset Management Strategy for Council's Heritage Assets	Council has obligations under the Heritage Act as custodians of heritage assets to manage them appropriately. Conservation



Supporting Document	Action	Resource Impact
		management plans (CMP) provide detailed information on significance, management strategies, and works that require special consideration.
		The list of heritage buildings needs to be reviewed and confirmed and the asset register updated accordingly.
		CMPs need to be attached to the asset register so that the information is readily available.
	Consider options for the use of the Bulli Miners Cottage property	Adaptive and active use of the facility is consistent with the objectives of the asset plan. Resources may be required to make this feasible.

12.10.2.1 Future Impacts

The following future impacts were identified across a range of services with the respective delivery stream identified at each impact. The strategic response as it relates to building assets, and the consequences of not funding the impact is summarised below.

Future Impacts	Strategic Response	Consequences of Not Funding	
SOCIAL PLANNING - Ongoing service required as there are changes to demographic composition of the community and social need.	Social Planning provides the current and future social needs that underpins direction and planning for community facilities. It also indirectly influences planning for other buildings that are used to deliver services to the community.	Social planning informs us about current and future needs. Failing to fund this work results in provision of services and facilities that are aligned with what has traditionally been provided. Not funding the impact may result in buildings and facilities that are no longer meeting the needs of the community, or no longer required, resulting in poor investment of community funds.	
SOCIAL PLANNING - West Dapto is a major growth area which will result in an increase in demand for services, facilities and initiatives that support connected communities.	The West Dapto development contribution plan identifies the high-level needs for the future community. This work needs more detailed assessment to ensure we have the required information to provide guidance on scope and concepts for facilities.	Social planning will inform the user requirements for proposed buildings and facilities in West Dapto at a more granular detail. Not funding this work will see proposals developed based on current understanding of requirements and may not deliver flexible and sustainable outcomes.	
ANIMAL CONTROL - Council's role as the local impounding	Council will need to consider the service approach and facility	Council has a range of statutory responsibilities under the	



Future Impacts	Strategic Response	Consequences of Not Funding
authority will be impacted by the management, ownership and location of the animal pound given the withdrawal of New South Wales RSPCA from future contract renewals from March 2024.	requirements for longer term planning. This may require modification or construction of a fit-for-purpose facility.	Companion Animals Act including seizing and management of stray and roaming animals. Failing to invest in arrangements for services to manage the housing of animals may lead to noncompliance with statutory requirements.
LIBRARY SERVICES - The planning, design, and construction of new libraries at Warrawong and Helensburgh, within the context of a multipurpose Community Centre and Library will require ongoing focus and commitment of resources over the next five years.	Consideration of the two library services continues as works progress with design and procurement.	Allocation of resources to planning and design work will assist in positioning council to make informed decisions on these two projects.
LIBRARY SERVICES - The impact of the West Dapto land release and development and growth of new communities in the southwest of the city will demand further consideration regarding provision of libraries social infrastructure and planning for future service delivery.	The West Dapto development contribution plan identifies the need for a sub-district level multipurpose community centre and library.	Not funding the community centre and library would impact the communities access to social infrastructure and place greater demand on nearby facilities.
LEASING AND LICENSEs - Continue to focus on the ongoing sustainability on Council's assets and ensuring optimal revenue generation.	Optimised revenue balances return on investment with the services supported by the asset. Leases and licences recognise that there is a direct benefit to the party at a cost that reflects community benefit.	Optimising revenue ensures that balance of any subsidy from the community towards leasing and licensing is aligned to the community strategic plan objectives.
LEASING AND LICENSES - Future for the maintenance, upgrade, and renewal of assets.	Being clear on maintenance, upgrade and renewal responsibilities ensures that all parties understand their accountability in managing and operating the building.	Not providing clear accountabilities can lead to actions not being completed, or incorrect allocation of responsibility. This is likely to lead to increased costs.
LEASING AND LICENSES - Reviewing the portfolio to ensure optimum benefit to Council.	This aligns with the objective of minimising lifecycle costs and ensuring assets are supporting a service.	This action will identify under- performing assets that are not delivering expected services are reviewed.



Future Impacts	Strategic Response	Consequences of Not Funding
STATUTORY PROPERTY AND PROPERTY DEVELOPMENT - ongoing consideration and review of Council's commercial property holdings is required to ensure strategies continue to align to objectives.	Routine review is required to ensure holdings are providing outcomes aligned to objectives	Commercial properties may not be delivering the desired outcomes.
GLENNIFFER BRAE (Botanic Gardens) - Council has resolved to review the future use of Gleniffer Brae	This resolution is to be resourced to determine appropriate uses of the facility that align with council's current strategic direction.	The facility may be underutilised.
COMMUNITY FACTILITIES - Future impacts include changing community needs, expectations, and demographics; increasing responsibilities of community management; cost of maintenance and age, condition, and suitability of buildings to meet contemporary community needs.	Lifecycle costing helps to inform the cost of providing services through community facilities. A continued move towards multipurpose shared facilities ensures more equitable access to services.	Community members may not be able to obtain equitable access.
COMMUNITY FACTILITIES - Changes to Commonwealth and New South Wales Government funding programs have the potential to impact on the future viability of some community- based organisations, which will in turn impact on their capacity to continue to meet their obligations as licensees.	This future impact has potential to result in in-direct cost shifting to council.	Reduced access to community facilities by groups that can no longer fund their operations.
COMMUNITY FACTILITIES - The 'Places for People' Social Infrastructure Planning Framework 2023-2036 (Supporting Document) provides a strategic and evidence-based approach to planning for the future of community facilities and poses challenges in balancing community needs against capital project priorities and investment capacity.	There are multiple actions that require further investigation and lifecycle costing. These were listed in the previous section of the plan.	There are numerous actions in the Places for People supporting document that funding to inform future direction. Not funding these actions may result in undertaking works that does not best align with the future needs of the community.
LEISURE CENTRES - Future planning for facilities to ensure they remain contemporary, in	The leisure centres were constructed between 1978 and 1988. Building components will require planning for renewal within	Not funding a review of the requirements will result in like-for-like renewal and potentially missing an opportunity to



Future Impacts	Strategic Response	Consequences of Not Funding
good order and relevant to the needs of the community.	the timeframe of this plan, and a needs assessment of the facility will assist in planning works.	consider adjustments to improve the service to the community.
LEISURE CENTRES - Changing structure of the fitness needs of the community who are experiencing increased pricing pressures and finding alternatives to the traditional gym environment.	The service offering needs to remain current to contemporary trends to provide a sustainable business model.	Not funding and responding to changes in the market will result impact the viability of the service delivery.
LEISURE CENTRES - Ability to implement the Beaton Park Master Plan and new facility at West Dapto to meet the changing needs of the community.	Some works are included in the infrastructure delivery program. Risks will be managed throughout the delivery of the projects and council informed of risks that impact on ability to implement that agreed actions.	Ability to implement the actions may relate to funding or other risks. Not funding the impact may limit the service offered in the respective locations.
LEISURE CENTRES - Ageing infrastructure at Beaton Park that no longer meets the communities' expectations.	A Beaton Park masterplan has been developed, and several stages of implementation are included in the current infrastructure delivery program.	Beaton Park is recognised as an important facility for recreation. Not funding renewal of ageing infrastructure may result in limiting activities that can be supported at this location.
WORK HEALTH AND SAFETY - WHS is a key operational & business requirement of Council which will need continuous focus & development to comply with legislative changes and ensure ongoing employee wellbeing.	We need to ensure buildings continue to meet mandatory safety requirements and are safe for operation. This includes mandatory health and safety registrations such as lifts, cooling towers, and other requirements from SafeWork NSW. In addition, we need to ensure we are meeting our obligations as the owner of premises to comply with mandatory Codes of Practice from SafeWork. Areas of focus for buildings relate to the following hazards asbestos management, working from heights, confined spaces, electrical and power works, falling objects, formwork,	Failing to invest in WH&S compliance will render buildings unfit for use and risk injuries and potential penalties.
	hazardous chemical storage, ladders, lighting, mould, scaffolding, solar panels, structures, and ventilation.	



12.10.2.2 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications will create changes in demand that influences our planning associated with road infrastructure as part of the enabling infrastructure and transport, as summarised below in Table 12.10.2.2:

Table 12.10.2.2 - Future Demand for Buildings

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	Areas of growth require buildings to support service provision.	The main area of growth in Wollongong is situated in West Dapto. The West Dapto vision and development contributions plan outline the facilities required to support the growth.	The West Dapto contribution plan funds the acquisition of land for the facilities, but not the buildings. Council will need to develop a funding strategy for these facilities.
Increased Residential Density	Increased residential density in some of the district hubs within the LGA.	Increased density may create additional demand and capacity issues for existing building.	The Places for the Future provides a strategic framework for community facilities across Wollongong.	Any identified need to upgrade capacity of buildings is included in the new and upgrade plan.
Material and application advances	Advances in material technology and methodology of maintenance and renewal activities will result in greater efficiency and safety undertaking works.	Advances may also result in improved asset life cycle costs through reduced expenditure and/or longer asset life.	Keeping up to date with industry advances in material and work methods.	Existing maintenance and renewal programs.
Low energy design	Increased efficiencies of low energy design	New building designs can incorporate energy efficient and sustainable	Integrating an assessment of energy efficient options as part of the project scope	Existing programs for building renewal works.



Demand Drivers	Demand Forecast	emand Forecast Demand impact on assets		Asset programs to manage demand
		practices to reduce lifecycle costs. Existing buildings to be assessed for feasibility of energy efficient upgrades.	for renewal and new works.	
Emission reduction from energy use (Solar Power and/or green energy)	Installation of solar panels to generate energy or supply from green energy sources to reduce greenhouse gas emissions and long-term financial savings.	The additional roof loading to support the provision of solar panels. Energy supply contracts from green energy sources	Consideration of structural capacity as part of roof renewal projects and new builds. Procure energy from suppliers with renewable sources.	Building renewal programs that include roof replacements. Program for solar on existing buildings. Contracts for green energy supply.
Additional groups/members of buildings	Increased number of new groups and agencies looking to utilising Council buildings	New assets required of shared arrangements/policy to be in place.		Buildings management policy to be created.
Degas and electrification of tourist parks	Net zero emissions targets create demand for electrification of cabins and removal of gas appliances.	Additional electrical demand on the current supply for the sites.	Use intelligent systems to balance load and upgrade supply where required.	Demand management systems and balance load
Off-grid energy for disaster centre backup	Greater demand for energy supply at disaster centres	Provide limited independent supply during outage	Potential back-up battery and solar panels	Consider prioritising for building upgrades.

12.10.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Buildings - Non-Specialised, and Specialised

Last comprehensive revaluation: 2024

Valuation Information: – Buildings – Non-Specialised and Specialised Valuation Technique – Buildings are recognised using the cost method, which equates to the current replacement cost of a modern equivalent





asset. The cost to replace the asset is equal to the amount that a market participant buyer of that asset would pay to acquire it.

Fair Value Hierarchy – Specialised and Non-Specialised buildings are generally assessed at level 3 of the fair value hierarchy due to lack of market evidence. Key inputs are unit rates and remaining useful life. The exception is non-specialised residential properties which have been valued using sale prices of comparable properties (level 2). The most significant input into this valuation approach is price per square metre. The level of evidence to support the critical assumptions of Council's residential property valuation was significant due to high levels of variability in the market for rental yields and future demands. As such the level of valuation input for all buildings was considered level 3.

Building Classification	Qty	Av. Useful	Carrying Value	Annual Depreciation	Current Asset Cost
		Life (years)	(\$) @ 30 June 2	30 June 2024	
Botanic Gardens and Annexes	29	72	7,403,113		19,691,000
Commercial Facilities	64	74	52,156,995		108,882,000
Community Facilities	92	71	99,141,017		174,927,000
Council Leisure Facilities	14	62	8,695,434		19,684,000
Council Operations	41	57	97,936,741		185,811,000
Cemeteries	13	75	2,432,051		5,163,000
Cultural Life and Museums	9	116	56,539,952		110,721,000
Emergency Management - Mt Keira Tower	2	75	27,400		60,000
Emergency Management – Rural Fire Service	16	68	8,343,172		12,026,000
Emergency Management – State Emergency Service	5	51	2,696,454		4,134,000
Heritage/Special	19	97	1,521,793		4,505,000
Lifeguard Towers and Storage	15	50	1,325,169		1,800,000
Parks Facilities	57	76	9,319,190		15,602,000
Pools	25	73	12,071,706		23,397,000
Public Toilets	3	70	322,051		488,000
Rock Pool Amenities	5	75	1,436,934		2,862,000
Sportsgrounds Facilities	175	70	67,252,148		138,430,000
Surf Clubs	25	76	59,479,132		86,692,000
Tourist Parks	145	27	21,672,018		35,970,000
Waste Services	10	70	6,041,401		10,121,000
Grand Total	764	63	515,813,871	20,003,961	960,966,000

12.10.3.1 Components and attributes

We generally recognise buildings at component level depending on the complexity of the building, including:

Structure – this is the minimum component for all buildings. Simple buildings, and those that are not
renewed by component will only have a structure. Examples of simple buildings include prefabricated
sheds and garages, tourist cabins and exeloo amenities. Structure includes all substructure footings,
columns, roof framing, suspended slabs, stairs and ramps, external walls, windows, and external doors.





- Roof all assets provide a structurally sound and watertight covering over the building including portal frames. Includes insulation, roof drainage, and safe roof access systems.
- Fitout and fittings general fixtures and fittings, fixed cabinetry internal walls, ceilings, doors, hard and soft flooring.
- Hydraulic services To fit out the building with normal sanitary fixtures together with hot and cold-water services and soil and waste plumbing systems together with all associated ancillaries.
- Mechanical services Comprises air conditioning, evaporative cooling, mechanical ventilation, and associated specialist services to provide heating, cooling, and ventilation to a building.
- Electrical services To provide all light and light fittings (excluding emergency and exit lighting) and all
 power, and power outlets, including main distribution board; sub-mains and distribution boards; power
 sub-mains to mechanical equipment.
- Fire services To detect and/or extinguish fires, including sprinklers and other automatic extinguishing systems; fire indicator board; fire communications; manual and automatic fire alarm installations; emergency and exit lighting; firefighting equipment; hydrant installations and hose reels and cupboards; hand appliances.
- Security Services To provide computerised and electronic controlled access into and within a building.
 Excludes CCTV which is part of the Office and Other Equipment Asset register.
- Transportation services To transport personnel and/or goods from floor to floor or area to area including all lifts, hoists, and conveyor systems; and escalators.
- Attached shelters and awnings Attached shelters and awnings include the following items where they
 can reasonably be more significant than an eave or part of the building roof but are attached to or
 supported (fully or partially) by the building asset.

The valuation undertaken in 2024 includes an assessment at the level of components listed above with the value of each component, condition rating and remaining useful life. An overall condition rating is also provided for each building. The summary of condition provided in the performance section below utilises the replacement value and condition rating of the individual asset components, and not the consolidated building rating. This provides a more accurate representation of the condition of the portfolio, as a component may be in a poor condition, but the overall building may be classified as good. It is recommended that the asset register be reviewed to recognise buildings at component level.

12.10.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 7.1.5.

A review of critical services identified that buildings support the provision of critical services. Buildings that support the provision of critical services are the Rural Fire Service and State Emergency Service facilities, emergency evacuation sites and the emergency operation centre. These locations are recommended to be identified as part of the improvement program, and the appropriate criticality rating associated with the asset attributes. This will influence the service planning for these buildings.

12.10.3.3 Operation and maintenance requirements

Routine inspections are part of our operational requirements for buildings and include:

- Level 1 inspections primary function of this inspection is to identify defects.
- Level 2 inspections routine visual condition assessment.
- Level 3 inspections detailed condition inspection.





- Compliance based inspections.
- Service inspections (e.g. cleaning and serviceability).

Building maintenance comprise two main categories, namely reactive maintenance and planned (or preventive) maintenance. Reactive maintenance is primarily driven by requests from building users and occupants and includes corrective repair work to minor defects. The work requests are triaged according to risk and listed on a property maintenance program.

Planned maintenance programs (PMP) include regular maintenance and servicing to buildings and facilities. The PMP has been developed for each asset and includes minor replacement of building elements, scheduled servicing, cleaning, and routine repairs, testing and inspections for compliance with statutory requirements such as annual fire safety, lift registration and asbestos management. Further details of typical operational and maintenance activities are provided under the technical levels of service and at Appendix D.

We have reviewed the required maintenance and operational activities for buildings and estimated that 2% of the gross replacement cost is the average investment required per annum across the portfolio. Some buildings will require a higher amount for more complex buildings, and simple buildings will require less investment. We will continue to refine a schedule of activities and monitor costs to further improve this estimate over time so that it better reflects the requirements of individual sites and types of buildings.

As part of the preparation of this plan, we undertook detailed condition inspections of nine locations to better inform the future requirements of these sites. Seven of the sites have a detailed recommended maintenance and renewal investment plan for 20 years.

12.10.3.4 Depreciation and degradation curves

Building assets and component use a straight-line depreciation and degradation profile.

12.10.4 Roles and responsibilities

Service Manager: Manager Infrastructure Strategy and Planning *

* Note, there is no direct service for buildings. The Manager Infrastructure Strategy and Planning has overall responsibility for the asset management of buildings.

Role	Lifecycle	Function	Responsible	Activities
Service Management	Planning	Service Planning	Service & Asset Managers	 Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery
	Operation	Service Operations	Service Manager	 Act as customer liaison for service Provide website information and communications



Role	Lifecycle	Function	Responsible	Activities
				Initiate notifications for service interruptions
				Undertake functional assessment
				Monitor and manage service and asset utilisation
				Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast
	Planning and End of	Asset Acquisitions and	Service and Asset	Engage with stakeholder on acquisition and disposal plan
	Life	Disposals	Managers	Arrange relocation or transition of service
				Arrange establishment or termination of agreements (utilities)
				Complete condition and performance assessment
		Asset	Manager Infrastructure Strategy and Planning	Assess asset related legislative requirements
	Planning	Planning		Coordinate scope preparation
				Asset review
				Renewal planning
Asset		Asset Data		Administration of asset register
management			Manager Infrastructure Strategy and Planning	Updates for capital improvements
				Initiate asset disposal system process
				Prepare asset management plan
				Coordinate asset reporting data
			Manager	Revaluation
		Asset	Infrastructure	Unit rates
		Financials	Strategy and Planning	Estimates
			r iailining	Monitor expenditure
				Approval of project plan
		Project Sponsor		Oversee business proposal
				Capital expenditure review (OLG)
Duois st				Define the problem/need
Project Delivery	Delivery			Options assessment
		Asset		Feasibility
		Concept		Lifecycle costing
				Funding strategy
				Business case/proposal



Role	Lifecycle	Function	Responsible	Activities
		Program Management		 Oversee project as part of program Responsible for managing overall program costs, risks, progress
		Asset Design	Manager Project Delivery	 Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process
		Asset Delivery	Manager Project Delivery	 Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Project commissioning and handover
	Maintenance	Asset Maintenance	Manager City Works	 Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works
Maintenance and Operation Management	Operation Asset Operations	Manager City Works	 Cleaning Utility management Removal of debris Security 	
		Manager City Works ML+CF	Facility Operations	

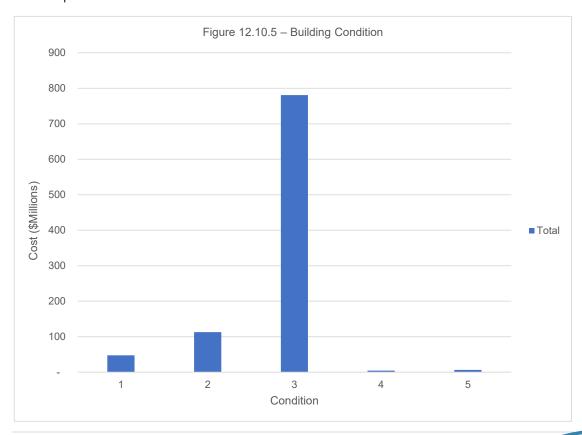


12.10.5 Performance

We monitor the performance of our buildings by condition (actual physical and technical state of the asset), capacity and customer satisfaction. The condition of buildings was comprehensively inspected as part of the revaluation of the portfolio in 2024. The condition rating was undertaken using a visual verification and rating against set criteria for each of the building components. Whilst this method is a reasonable indication of condition for the portfolio, more detailed condition inspections by subject matter experts is recommended for higher value and more complex buildings. This more detailed assessment was undertaken on the following nine buildings:

- Dapto Ribbonwood Centre
- Thirroul District Library and Community Centre
- Corrimal District Library and Community Centre
- Wollongong Town Hall
- Wollongong Art Gallery
- Dapto Pool
- Southern Gateway Centre
- 81/83 Burelli Street, Wollongong (former Integral Energy building)
- Council administration building

Figure 12.10.5 below is an overview of the current condition of buildings based on the individual assessment of all components.





Capacity of the building portfolio is monitored through our supporting document process for the relevant service. Our preferred operating model is for co-location and multipurpose facilities model to improve activation, safety, and socialisation. Where under-utilisation of a building is identified, we look for services that are experiencing challenges meeting capacity to rationalise use.

12.10.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey indicated the level of utilisation and satisfaction with the provision of building facilities. We also monitor the provision of direct services that align to the operation of buildings. A summary of the utilisation of the facilities included in the survey is shown below:

FACILITY USAGE RATE	2017	2019	2021	2023	CHANGE SINCE 2021
Community centre at Thirroul, Corrimal or Dapto	-	-	21%	23%	+2
Community hall/centre	25%	28%	27%	30%	+3
Illawarra Performing Arts Centre and Town Hall	42%	39%	47%	41%	-6
Leisure centers (Beaton Park and Lakeside)	25%	18%	33%	33%	-
Libraries	-	-	53%	51%	-2
Wollongong Art Gallery	20%	15%	24%	25%	+1

It is noted that the utilisation of IPAC and Town Hall decreased 6% on the 2021 figures, however it is noted that IPAC was closed during parts of 2023 for refurbishment works to roof; heating, ventilation, and air conditioning; seating and carpet replacement in the IMB and Bruce Gordon theatres; installation of a new hearing loop system; accessibility upgrade of amenities; and upgrade of the servery areas.

The summary below details the community satisfaction with these facilities across multiple survey years:

FACILITIES	2010	2012	2014	2017	2019	2021	2023	CHANGE SINCE 2021
Community centre at Thirroul, Corrimal or Dapto	-	-	-	-	-	4.2	4.3	⇔
Community hall/centre	3.7	4.0	4.2	4.0	4.0	3.8	3.9	⇔
Illawarra Performing Arts Centre and Town Hall	4.1	4.2	4.3	4.4	4.4	4.2	4.3	⇔
Leisure centres (Beaton Park and Lakeside)	4.0	4.2	4.3	3.9	4.2	4.1	3.9	y
Libraries	-	-	-	-	-	4.4	4.4	⇔
Wollongong Art Gallery	3.9	4.0	4.2	4.2	4.1	4.2	4.1	\$

Beaton Park is currently undergoing major works to improve some of the facilities at this location.



The satisfaction with direct services relating the operation of buildings is summarised below:

DIRECT SERVICES	2010	2012	2014	2017	2019	2021	2023	CHANGE SINCE 2021
Customer Service Centre	3.5	3.6	3.8	3.7	3.9	3.9	3.9	⇔
The hours Council public toilets are open	-	-	-	3.1	3.5	3.7	3.6	⇔
Graffiti prevention and removal	3.0	3.1	3.3	3.2	3.4	3.6	3.4	⇔
Maintenance and cleanliness of public toilets	2.5	2.6	2.9	2.8	3.1	3.1	3.0	\$

The survey indicated that libraries are a current strength to maintain – that is high importance and high satisfaction amongst the community. Community centres at Thirroul, Corrimal, and Dapto; IPAC and Town Hall; and the Art Gallery were of lower importance, but relatively high satisfaction. Facilities that were considered lower priority and lower satisfaction were community hall/centres and leisure centres. The community survey did not identify any building that should be a priority for attention.

In terms of direct services, the four listed above were identified as relatively lower importance, with higher satisfaction for customer service centre and the hours of operation for public toilets. Lower satisfaction was associated with maintenance and cleanliness of public toilets and graffiti prevention and removal.

12.10.5.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measure	Target Performance	Current Performance				
COMMUNITY L	COMMUNITY LEVELS OF SERVICE							
Safety	Building is safe for users/occupants	Rectification of emergency works. Prevent occupation of unsafe buildings	85% or higher completion of emergency works within agreed response time. Buildings found to be unsafe for use closed for use within agreed time frame.					
Quality	Well maintained and suitable buildings	Number of requests per annum in relation to renewal and maintenance requests	Council to monitor building requests pertaining to renewal and maintenance					



Key Performance Measure	Level of Service	Performance Measure	Target Performance	Current Performance
Heritage preservation	Council is aware of the heritage listed buildings and is managing the facility in accordance with legislative requirements.	Each Council building listed in the Local Environmental Plan is preserved and maintained in accordance with a maintenance/ conservation plan	100% compliance	
Environment	A commitment to continually improve environmental efficiencies, reduce dependence on nonrenewable fuels that emits greenhouse gases and promote sustainability	Reduction in power consumption. All high use energy consumption buildings will be fitted with solar panels and LED lighting by 2030, wherever possible	Reduction in overall power usage by Council and reduced operating costs	
Accessibility	Buildings comply with relevant minimum accessibility standards relative to building function	Compliance of available facilities with current standards relative to building function	85% compliance	
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group Community survey relating to building		No significant decrease in average satisfaction results to previous survey	The average across seven surveys is 2.9, and the rating for 2023 is consistent at 2.8. However there was a decrease from the 2021 result of 3.2 which is considered a significant decrease
Residents' Wish List	The community do not see this asset group or associated service as an area of focus for	Community survey internal benchmark – "In your view what are the three key areas you think Council should	Less than 10% increase on previous percentage	Building facility and indirect services as a group increased from 35% to 41% between 2021 and



Key Performance Measure	Level of Service	Performance Measure	Target Performance	Current Performance
	council over the next 4-years	focus on over the next four years?"		2023. This is a 17% increase
TECHNICAL LE	EVELS OF SERVICE			
Cleanliness	Buildings are cleaned to an agreed level	Cleaning arrangements in place	Cleaning undertaken in accordance with the agreed service standard	
Building Occup	pation			
NCC Building Classification Compliance	Building usage is appropriate for the class of building	Use of the building complies with NCC	85% compliance	
Permissible Use	The use of buildings must be permissible within the land use category and/or the plan of management applying to the site	Use is permissible with the zone and/or the plan of management for public open space, or existing use rights are in place	100% compliance	
Development consent	Certain use of premises require development consent under the Environmental Planning and Assessment (EP&A) Act. Those uses must obtain the necessary consent for occupation.	Identify uses that require approval under the EP&A Act and seek consent.	Development consent or complying development certificate obtained, and use is in accordance with the relevant conditions	
Safety and Con	npliance			
Electrical Safety	Mandatory electrical standards are maintained for safety	Compliant RCDs Thermal loading Lightening arrestor	100% compliance	



Key Performance Measure	Level of Service	Performance Measure	Target Performance	Current Performance
Hydraulic Safety	Thermostatic Mixing Valve Backflow prevention First flush rainwater Rainwater filter	Current compliance certification and testing results available for all buildings Compliance with Sydney Water's backflow prevention requirements	100% compliance	
Emergency Management Site evac plan	Site evacuation plans available for emergency situations	Required plans are current and accessible at required locations	100% compliance	
Fire Safety	Fire safety measures maintained and certified in accordance with the legislative requirements and Annual Fire Safety Statement issued by a competent person. Inspection, testing and maintenance program to ensure compliance is maintained.	Current Annual Fire Safety Statement	100% compliance	
Hazardous Materials (lead, asbestos, PCBs, mineral fibres, site contaminatio n, etc)	Asbestos register and management plan for buildings in accordance with legislative requirements.	Unobstructed access for all visitors, occupants and interested parties to asbestos register and management plan.	100% compliance	
Asbestos Audits	Completion of asbestos audit	Compliance with the Code of Practice	Audit conducted once every five years	
Registration and compliance certificated	Statutory inspections, registrations and certificates obtained and kept valid.	All statutory plant and equipment registrations and component	100% compliance	



Key Performance Measure	Level of Service	Performance Measure	Target Performance	Current Performance
		certification completed		
Pump Out Syst	em			
Inspect storage tank for silt and debris and remove.	Silt does not accumulate to reduce the effectiveness of the pump out system	Pump out any water from within tank and remove all silt and debris present	Annually	
Check float switches and pumps to ensure they function as required.	Triggers effectively operate to ensure pump out system is functional	Floats shall be raised to levels required to ensure pumps operate as designed. High level float shall activate siren and flashing strobe light in driveway entrance.	Six Monthly	
WHS	Provision of working from heights safety	Required access provisions in place such as platforms, restraint and anchor points, ladder brackets and alike	100% of fall from heights hazards identified and program in place to installation of facilities for safe access to work areas with fall hazards	
Condition	Condition assessment of building network completed in accordance with schedule	Council proactively monitors and keeps updated information on the condition of its building stock	Minimum of 85% of scheduled inspections complete	
Cost	Implementation of efficient and cost-effective maintenance programs	Maintenance costs attributed to work orders	Assets with high maintenance costs identified for major maintenance program or renewal.	



Key Performance Measure	Level of Service	Performance Measure	Target Performance	Current Performance
Risk	Assets are maintained within a tolerable risk profile.	Risk assessment of road infrastructure to be undertaken.	All assets managed in accordance with the infrastructure risk appetite statement	
Utilities	Building is connected to required utilities to support service delivery	Utilities are functional, invoices paid and compliant	85% compliance	
		Percentage of identified renewals funded		
Performance	Asset management actions and funding allocation supports long-term sustainability	Percentage of planned renewals completed		
		Percentage of identified proactive maintenance works completed		

12.10.5.3 Buildings Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact buildings are summarised below:

Risk Rating	Rating Priority	Residual Risk Rating	Hazard Name	
1	EXTREME	Major/ Likely	Severe Storm	Severe storm with accompanying lightning, hail, damaging winds, and/or rain that causes severe damage and/or localised flooding (includes tornado and waterspout) and coastal erosion. This hazard may impact buildings, through sustained damage.
2	EXTREME	Major/ Likely	Fire – Bush/Grass	Major fires in areas of bush or grasslands. The impact on buildings is linked to facilities in the impacted area.



4	EXTREME	majon	Flash	Heavy rainfall causes excessive localised flooding with minimal warning time. This hazard may impact buildings within the floodplain area.
6	EXTREME	Major/ Possible	Infrastructure Failure – Power	Power failure may impact the ability to utilise some buildings due to amenity impacts.
9	HIGH	Moderate/ Likely	Landslip / Mudflow / Rockfall	Landslip/mudflow/rockfall resulting in localised or widespread damage. Landslip can cause instability and closure of the road. These impacts can create medium to long term closures whilst support is reinstated.
15	HIGH	Major/ Rare	Major Structural Collapse	Failure of a major structure with or without warning owing to structural failure or because of external/internal events or other hazards/incidents. This hazard could be associated with a council owned building, or with a structure adjacent to a council owned building.
17	HIGH	Major/ Rare	Infrastructure Failure – Water	Major failure of essential utility for unreasonable periods of time because of a natural or human-caused occurrence (>24 hours). Lack of water will render most impacted buildings unusable for hygiene reasons.
18	нідн	Major/ Rare	Earthquake	Earthquake of significant strength (> Magnitude 7) that results in localised or widespread damage. The extent of damage can vary widely from minor cracking to major structural failures.
19	HIGH	Major/Rare	Tsunami – Land inundation threat	A tsunami wave of magnitude that presents a risk to land and marine elements. This hazard may impact buildings within the impacted zone.
22	MODERATE	Moderate/ Unlikely	Hazardous Materials	Release of a hazardous material stored within or adjacent to a building structure.
24	RARE	Minor/ Low	Coastal Erosion	Damage to building assets resulting from significant coastal erosion.

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any building impacted by the event.



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Asset Management Plans

12.10.5.4 Climate Hazards

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to buildings are summarised in table 12.10.5.4 below:

Table 12.10.5.4 – Climate Hazards Impacting Buildings

Priority Ac		azards impacting Buildings
Hazard	Action	Building Management Relationship
Heat	Assess the suitability of Council facilities to be utilised for respite centres on hot days. This may include provisions for adequate water and food, power supply and potentially use of recycled water and appropriate landscaping to provide shade.	Any identified upgrade requirements to be included in future investments for buildings and facilities. Identified facilities may require specific management plans. Improvements to passive heat control of the facility in addition to conditioned air will improve performance and reliability of the respite location.
	Plan for the potential cost impacts of overlapping or more frequent heat events.	Include estimated increased operational costs to cool building and facilities. Improve thermal efficiency of high-priority and high-energy use locations.
Flooding	Ensure new developments consider climate change projections including rainfall intensity and sea level rise.	New buildings to be designed to cater for the relevant building controls in the DCP.
Duchtine	Review Council's response to manage air pollution for Council buildings and facilities.	Identified issues may require modifications to buildings and facilities.
Bushfire	Review bushfire risk and emergency management plans for Council operational or leased buildings.	Potential for operational works for maintenance of asset protection zones around the building.
Storms	Identify Council's business continuity plans (BCPs) and review and updated as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any critical assets are listed in the asset management plan, and appropriate management plans developed.
Drought	Council will review the water efficiency of its operations including detecting leaks in water supply (for Council managed water network).	Monitor water usage associated with buildings. Check for leaks as part of inspection program.
Drought	Council to consider rainwater, sewerage mining/ recycling and stormwater harvesting and usage, to support irrigation for sports fields.	Consider stormwater harvesting associated with buildings.
Sea-level rise	Recovery plans from emergencies are to be developed in partnership with communities and other relevant service providers.	Recovery plans typically result in unscheduled maintenance activities. Some recovery actions are part funded through State agencies for major events. An allowance will be included in estimates based on a review of prior years' activities.



12.10.5.5 Coastal Zone Management Plan

The Wollongong Coastal Zone Management Plan 2017 (CZMP) reviewed the vulnerability of surf clubs and public buildings to storm erosion and sea-level rise induced foreshore recession. The CZMP notes that surf clubs are generally located immediately behind the beach, which typically means that they are at risk of costal inundation and/or shoreline recission. The buildings that remain under threat along the coastline, as summarised below in Table 10.10.8.5:

Table 12.10.5.5 - Buildings Coastal Hazard Assessment

Location and Asset	Risk Now	Risk at 2050	Risk at 2100
Thirroul Surf Club; Thirroul Pavilion (heritage site); Sandon Point Surf Club; and Bulli Surf Club	High	Extreme	Extreme
Helensburgh/Stanwell Park Surf Club; Austinmer Surf Club; Former Quest House, Thirroul (heritage) subject to inundation; Bellambi Surf Club (inundation)	Medium	High	Extreme
Austinmer Boatshed (wave overtopping); Bulli Kiosk and Residence; Corrimal Surf Club (inundation)	Medium	Medium	High
Woonona Surf Club; North Beach Kiosk (heritage)	Low	Medium	High
Coalcliff Surf Club; Coledale Surf Club; Coledale Beach camping reserve amenities building; Fairy Meadow Surf Club lifeguard tower	Low	Medium	Medium

Management of Surf Clubs and Public Buildings that are at 'high' or 'extreme' levels of risk at the current timeframe takes highest priority. An audit of the buildings and a plan for those at high and extreme risk is to be prepared. Each of the locations above with a current high risk were assessed as part of the building valuation as having remaining useful life that would extend into the period of extreme risk.

12.10.5.6 Legislative Requirements

- Work Health and Safety Act 2011
- Environmental Planning & Assessment Act 1979
- Heritage Act 1977
- Disability Discriminations Act, 1992
- Electrical Safety Act, 2002
- Building Fire and Safety Regulations
- Plumbing and Drainage Act 2011
- Surveillance Devices Act 2007
- Smoke Free Environment Act 2000

12.10.5.7 Buildings Provision and Management Arrangements

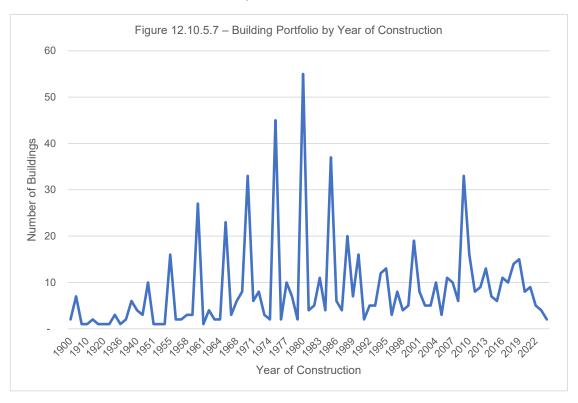
Council has historically owned and operated most buildings utilised for delivering services. This model is likely to continue for the foreseeable future. A small percentage of buildings leased by council to provide services via a lease, licence or other agreement with a Government Agency or private landowner. Council also provides access to buildings for use by specific user groups and service operators under agreement through lease, licence, permit and other use agreements. Some buildings and facilities are operated on a commercial basis where the market is tested for occupation of the space on a competitive basis.



Our supporting documents identify our current and future demand for services that are supported through the provision of buildings. To ensure equitable access and sustainable provision of services, we primarily look to operate under a shared multi-use model. The lifecycle cost of providing, operating, and maintaining buildings is proportionally higher than other asset groups and the coordination or services and sharing of facilities is key to sustainably managing buildings. We will continue to monitor utilisation, capacity, and demand to inform future direction on the utilisation of buildings and facilities.

Legislative requirements under the Rural Fires Act 1997 (Cl. 37) and the State Emergency Service Act (Cl 17) place obligations on Council to provide certain facilities to the emergency services to undertake their functions. The standards to which these facilities are provided are as approved by the respective Commissioners. Council maintains buildings and facilities that accommodate a range of functions including office accommodation, change and amenity facilities, garaging and storage, and training.

Over 50% of the buildings currently in-service were constructed prior before 1986 and 75% by 2007. Figure 12.10.5.7 below provide an overview of the number of buildings constructed by year. The year of commissioning of buildings prior to the year 2000 are largely estimated and typically assigned at 5-year intervals. This is seen with notable spikes in 1955, 1960, 1965, 1970, 1975, 1980 and 1985. The spike in 2009 is a result of a renewal of several tourist park cabins.



Council directly manages most of the building portfolio with several buildings operated under licence and lease agreements. We have been progressively updating legacy building agreements with clearly articulated arrangements for the management of operational, maintenance and renewal activities and costs. This ensures clear and transparent accountability for both council and the party under the agreement. We will continue to monitor these responsibilities through our on-going inspection program.



12.10.6 Buildings and Facility Service Level Framework

The current and forecast demand for building space is generally very high (based on Usage rating in Places for the Future) since most services provided by council rely on a building to operate. Council is also mandated to provide space for legislated services provided by the NSW Government (e.g. Rural Fire Service and State Emergency Service). To meet these demands, we provide and manage over 700 buildings accommodating a wide range of service functions. We need to maintain buildings so they can continue to support the delivery of a wide range of services to meet the social, economic, and environmental needs of the community. We invested an average of \$10.9 million/annum over three years on operational and maintenance functions to keep these facilities available for use.

Applying equal service levels across all buildings results in compromised service delivery on some facilities, and over servicing on others. A more sustainable approach is to apply a service level framework that informs the allocation of resources and decisions for future investment based on risk and criticality, service impacts, and resource availability. Service levels will enable a more strategic approach to the management of buildings will provide the following benefits:

- Improve the efficiency and effectiveness of maintenance.
- All buildings are adequately maintained based on priority.
- Risks are managed.
- Infrastructure and financial capital can be maintained over the long-term.
- Information is available for monitoring maintenance, condition, and performance of buildings.
- Improve planning for capital investment into renewal, upgrades, extension, and new assets.
- Rationalising buildings with low utilisation through facility sharing.

This can be achieved by applying a level of service framework specifically developed for managing buildings. The framework can be used to help prioritise reactive and proactive maintenance works, scheduling of operational activities, and determining priority for capital investments. It will sharpen the focus on life-cycle value and alignment of priorities to the community strategic plan goals.

A service level framework can be applied for all asset categories. A framework is partially implemented for roads that uses a similar approach to the recommended model for buildings. The model recommended is:

- 1. Define and assign use categories to each building.
- Establish facility service levels associated with use categories and define performance measures relating to condition, renewals, and maintenance intervention.
- 3. Develop a matrix of **operational and maintenance activities** and assign standards and frequency to the facility service level.
- 4. Develop a prioritisation and resource allocation model for capital works on buildings.
- 5. Integrate and align service levels in **supporting documents** and asset plans.
- 6. Use service levels to assign operating hours, provision, risk management, and other functions.

The Places for People framework is an example of a supporting document that has defined service levels for facilities. The document provides guidance on the desirable size, distribution, catchment size and other relevant attributes

A sample framework is provided at *Appendix D* to demonstrate how it could be applied to buildings. *It is not intended to be a completed framework for implementation*, rather an example of how it could apply in the



Wollongong context. Local-specific information has been used in the sample from the Places for People classification for Community Facilities.

12.10.6.1 Defect Management

A defect management framework should be developed to complement the service level framework. The intervention and response time should be based on the severity of the defect and the criticality of the facility. This follows a risk-based approach to defect management and reactive maintenance. An example building defect management framework, based on a IPWEA model, is provided at *Appendix E*.

12.10.7 Future Investments

12.10.7.1 New and Upgrade Plans

The following list includes new buildings, upgrades to existing buildings, and those that require a feasibility investigation to determine the future direction:

- · Southern Suburbs Library and Community Centre
- · Helensburgh Library and Community Centre
- Stuart Park Amenities upgrade and extension
- Beaton Park multipurpose facility
- Lang Park Amenities
- Wollongong Animal Shelter
- · Sublime Point Lookout
- Cliff Hanger
- Kembla terraces
- Rural Fire Services
- State Emergency Service

In addition, five new facilities are proposed under the West Dapto Development contribution plan as summarised in the table below. Whilst the plan collects contributions towards the purchase of land, the development contributions plan is restricted in essential works, which does not include the cost of the facility. Council will need to formulate a funding strategy to deliver the facilities and provide funds for operation, maintenance and renewals proposed under the plan:

Ref	Infrastructure Item	ructure Item Indicative location		Indicative Timing
CF01	Neighbourhood multi-purpose community centre	Darkes Town Centre	New facility	2020/21 – 223/24
CF02	Neighbourhood community centre	Wongawilli Hall – west end of Wongawilli Road	Upgrade and extension of hall.	2020/21 – 2020/21
CF03	Sub-district multi-purpose community centre and library	Bong Bong Town Centre	New facility with an optional childcare centre.	2020/21 – 2023/24
CF04	Neighbourhood multi-purpose community centre	Co-located with Community Leisure & Recreation Centre	New facility	2041/42 – 2045/46
CF05	Neighbourhood multi-purpose community centre	Marshall Mount Town Centre	New facility	2021/22 – 2024/25



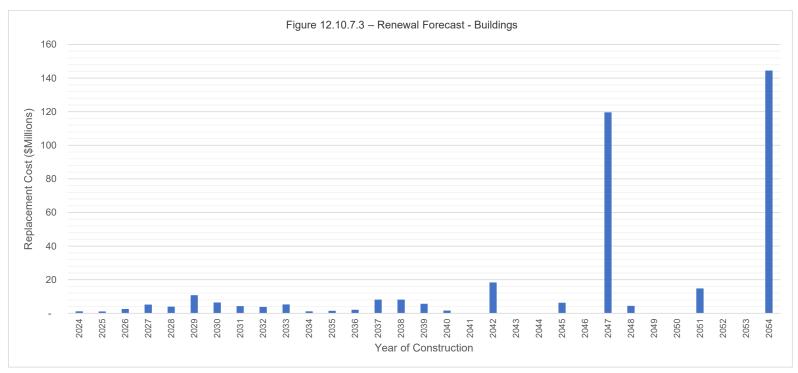
12.10.7.2 Decommissioning and Disposal Planning

Where we identify buildings that are not required to meet a required level of service, we may look at decommissioning the facility. Under-performing assets are currently under review to determine an appropriate course of action including buildings with a backlog of maintenance and renewal work with generally low utilisation. Unforeseen decommissioning may result from impacts of natural disaster or unplanned incident.



12.10.7.3 Renewal Works

Based on the most recent revaluation of buildings, the renewal profile for the next 30 years is shown below in Figure 12.10.7.3. Over the next 10-year period, the average renewal requirement is approximately \$4.3 million/annum. However, the forecast renewals escalate significantly in the following 20-year period between 2036-2054, increasing to \$17.5 million/annum. The forecasts are based on the timing of renewal at building level. However, in practice it is preferable to understand renewal requirements at building at component level. To improve efficiency and avoid rework on previously completed works, the timing of works on components need to be coordinated within the building. We are proposing to invest and average of \$11.7 million annually over the next 10 years.



Asset Management Plan





Detailed condition audits were undertaken on the following buildings and the forecast renewal requirements for these properties are provided below:

Building	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
81 Burelli St				100,000	957,434	2,500,000	478,140	1,434,420			
Administration Building & Car Park	650,000	450,000	150,000	150,000	4,000,000	1,900,000					
Art Gallery	75,000	1,673,200	4,298,000	440,000	175,200	154,000	291,000	507,200	387,000	259,000	201,200
Corrimal District Library & Community Centre	27,000	30,200	43,800	58,200	67,200	138,000	122,800	133,200	103,000	58,200	54,400
Dapto Pool Amenities/Residence		3,900		141,000	112,800	158,800	137,000	105,000	161,000	64,000	201,000
Dapto Ribbonwood Centre	124,000	162,200	184,400	366,000	969,200	527,000	956,600	677,400	604,700	203,200	136,600
Southern Gateway Centre - Bulli Tops	40,000	128,000	200,000	138,000	429,000	744,000	394,000	246,900	274,000	152,000	155,000
Thirroul District Community Centre & Library	23,000	18,800	34,000	40,000	28,000	142,000	122,000	205,000	182,000	108,000	100,000
Wollongong Town Hall	155,000	113,000	201,000	373,000	221,000	202,000	420,000	462,000	377,000	322,000	72,000
Total	1,094,000	2,579,300	5,111,200	1,806,200	6,959,834	6,465,800	2,921,540	3,771,120	2,088,700	1,166,400	920,200





These estimates are included in the estimated required renewals totals in the Future Investment Plan – Buildings table.

12.10.7.4 Future investment plan - Buildings

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	20,003,961	20,113,352	20,530,619	20,936,541	20,992,745	21,079,342	21,088,189	21,097,036	21,105,883	21,114,730	21,123,577
Required maintenance & operational works	19,219,320	19,324,420	19,725,320	20,115,320	20,169,320	20,252,520	20,261,020	20,269,520	20,278,020	20,286,520	20,295,020
Operating expenditure	39,223,281	39,437,772	40,255,939	41,051,861	41,162,065	41,331,862	41,349,209	41,366,556	41,383,903	41,401,250	41,418,597
Renewal works	9,560,000	7,435,000	5,950,000	9,500,000	11,620,000	13,837,800	13,758,900	13,667,569	13,692,830	13,692,830	13,692,830
Upgrade works	615,000	11,845,000	8,800,000	3,590,000	2,550,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
Expansion works	4,270,000	25,770,000	22,000,000	16,080,000	-	-	-	-	-	-	-
New works	985,000	125,000	1,500,000	11,250,000	750,000	-	-	-	-	-	-
Capital expenditure	15,430,000	45,175,000	38,250,000	40,420,000	14,920,000	15,837,800	15,758,900	15,667,569	15,692,830	15,692,830	15,692,830
Totals	54,653,281	84,612,772	78,505,939	81,471,861	56,082,065	57,169,662	57,108,109	57,034,125	57,076,733	57,094,080	57,111,427
Estimated required renewals	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397	12,296,397
Planned renewal as a % of estimated required	83%	157%	120%	106%	115%	129%	128%	127%	128%	128%	128%



12.10.8 Buildings Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
10.1	Componentisation	A data dictionary has been prepared for buildings with standardised descriptions for building components. This was utilised to inform the revaluation of buildings. It is recommended that the asset register be updated to recognise the requisite building components.	MISP	2024
10.2	Service level framework	It is recommended that a service level framework be developed and implemented to inform the service level and response times for different use cases. This will facilitate operational and scheduled maintenance planning and inform priorities for future investment.	MISP	2026
10.3	Defect management	It is recommended that a defect management framework be developed to complement the service level framework	MISP / MCW	2028
10.4	Proactive Maintenance	Continue development of proactive maintenance programs including activities, prioritisation methodology, target response times, and work order's structure. This will complement items 3.2 and 3.3	MISP / MCW	2028
10.5	Useful life review	As part of the building valuation, an estimate of the remaining useful life of each component was provided. A review should be undertaken to assess the overall useful life guide to determine if it remains current, or if updates are required.	MISP	2025
10.6	Climate Hazards	The Coastal Zone Management Plan identifies several buildings that are currently at high risk from coastal hazards. A plan is to be prepared for each of these sites to determine the management option going forward. This includes buildings with heritage significance. The feasibility of proposals to relocate heritage buildings will need to be undertaken.	MISP	2027
10.7	Decommissioning	Investigate the potential for decommissioning buildings that are not meeting expected service standards with relatively low utilisation.	MISP / MCO+P / ML+CF	2026
10.8	Criticality rating	Identify buildings that provide direct linkage to emergency services and other critical services to determine the appropriate criticality rating. This includes evacuation centres, heat respite locations and similar buildings providing shelter for vulnerable community members.	MISP	2025
10.9	Coalcliff Community Hall	Review the functionality of the hall and options for alternative service delivery as per the Social Infrastructure Plan. This is to be	ML+CF / MISP	2026

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Item	Issue	Description	Responsible	Timing
		actioned prior to commissioning any renewal works on the building.		
10.10	Fairy Meadow Community Centre	Complete a needs analysis to inform the brief for a feasibility and lifecycle cost plan to be prepared.	ML+CF / MISP	2027
10.11	Heritage assets	Ensure that heritage buildings are appropriately identified in the register and that the associated conservation management plan is attached to the asset listing.	MISP	2025
10.12	Animal Shelter	Identify the short, medium, and long-term accommodation needs and options for the service.	MR+E	2025
10.13	Commercial properties	Review options and feasibility, including lifecycle costs, for operation of kiosk or similar facilities at Sublime Point and Bulli lookout areas.	MISP / MCO+P	2026
10.14	Accessibility Service Level	Develop a prioritised program to support the Accessibility Level of Service objectives. Program to undertake high-level feasibility and cost estimate.	MCC&E & MISP	2025
10.15	Accessibility Service Level	Program the implementation of priority works identified in action 10.14.	MISP	2026
10.16	Standard/modular buildings	Develop a standard suite of buildings which can go from approved funding to design and construct.	MISP	2026



12.11 Plant, Fleet and Equipment

Plant, fleet and equipment enable Council to deliver its activities and services in the community. This section of the asset management plan focusses on variety of plant, fleet and equipment that includes items under the following categories:

EarthmovingMowers

Rural Fire Service • Passenger vehicles

Light commercial • Tractors

Major ancillary equipment
 Trailers

Minor ancillary equipment
 Trucks and buses

The asset snapshot below provides more detail on the types of plant, fleet and equipment we hold.

12.11.1 Profile

Community Strategic Plan Goal: Support Services

Service: Governance and Administration & Infrastructure Strategy and Support

Plant, fleet and equipment provide support for multiple services across the organisation. The provision and management of the light vehicle fleet (passenger and light commercial vehicles) is coordinated through the Customer + Business Integrity Division. The remainder of plant, fleet and equipment is managed and coordinated through the City Works Division. All plant, fleet and equipment maintenance and servicing are coordinated through the City Works Division. The requirement for plant, fleet and equipment is determined by the service manager for the respective service that the asset supports. Plant, fleet and equipment assets are linked to Support Services and the delivery stream of Vehicle Management and Support Assets.

Vehicle management facilitates permanent and casual usage to meet the needs of business units' fleet of vehicles. This stream manages motor vehicle fleet to balance cost, environmental and functionality requirements. It includes internal carpooling arrangements for leased vehicles and oversight of the vehicle acquisition strategy and replacement program.

We recognise that many services could not be delivered to the required service level without the appropriate plant, fleet and equipment. The table below provides some examples of how plant, fleet and equipment support services are linked to each goal of the CSP:

Goal 1: We are a sustainable and climate resilient city				
Service	Plant, Fleet & Equipment Assets Utilised			
Botanic Garden & Annexes	Loader			
	Skid steer			
	Mowers			
	Light commercial vehicle			
	Tractor			
	Trailers			
	Electric bus			

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	Trucks
Environmental Services	Vehicles to support clean-up activities
Stormwater Services	Passenger vehiclesTrucksExcavators
Natural Area Management	 Small plant and equipment – Watering equipment Mowers Woodchipper
Waste Management	Compactors Trucks

Goal 2: We have well planned, connected, and liveable places			
Service	Infrastructure Asset Relationship		
Emergency Management	RFS and SES equipment		
Memorial Gardens & Cemeteries	ExcavatorMowersTrailersTrucks		
Regulatory Compliance	Passenger vehiclesLight commercial vehicles		
Transport Services	Plant, Fleet & Equipment Assets Utilised		

Goal 3: We foster a diverse economy, and we value innovation, culture, and creativity				
Service	Infrastructure Asset Relationship			
Cultural Services	Light commercial vehicles			
Engagement, Communications and Events	Light commercial vehicles			
Tourist Parks	E-Cars and ATV Light commercial vehicles			
	• Mowers			
	Trailer			

Goal 4: We have a healthy, respectful, and inclusive community				
Service	Infrastructure Asset Relationship			
Aged & Disability Services	• Buses			
Aquatic Services	 Jetskis Pool cleaners Mowers High pressure Gurney Mobile pool hoists 			
Community Facilities	Scissor lift			

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	Mowers
Community Programs	High pressure gurney
Leisure Centres	Lakeside leisure centre plant and equipmentGym and sports equipment
Libraries	Light commercial vehiclesSelf-checker machines
Park & Sport fields	ExcavatorLight CommercialSkid SteerTrailers

12.11.2 Strategic priorities

Plant, fleet and equipment are operated under a partnership model, where the service manager determines the requirements of plant, fleet and equipment to provide effective services. The service manager is supported by a procurement and fleet expert to assist with advice and assistance with sourcing and managing assets. Planning for plant, fleet and equipment is associated with individual service plans. However, decisions are informed by the following strategic supporting documents:

- Net Zero Wollongong Climate Change Mitigation Plan 2023-30
- Sustainable Procurement Policy
- · Vehicle Acquisition Strategy

The Net Zero Wollongong Climate Change Mitigation Plan (CCMP) identifies several actions that influence our planning for plant, fleet and equipment. Actions that we are implementing include the purchasing of energy from renewable energy sources, encouraging and advocating for sustainable transport, moving towards electrification, and improving our waste management practices.

The CCMP identifies that transport emissions will become a major source of emissions as we approach 2030. To reduce Council's transport emissions, the focus is on the transition of plant, fleet and equipment to low carbon alternatives. We have continued transitioning the fleet to Battery Electric Vehicles (BEV), electric plant, fleet and Hybrid electric vehicles. In addition, we have added e-bikes to our fleet to encourage sustainable transport for shorter trips.

The following table 12.11.2 summarises the actions from the CCMP with a relationship to plant, fleet and equipment assets and an assessment of the direct impact:

Table 12.11.2 - Strategic Actions

Plant, fleet and Equipment Action	Measurement	Resource Impact
LE8. Transition fleet to low carbon alternatives and increase operational efficiency	Measurement - # of EVs in fleet, Fuel Consumption	The CCMP analysis forecasts a transition to EV passenger vehicles. This will require additional funding for replacement as the relative cost of EVs are currently higher than equivalent internal combustion engine alternatives. However, the on-going operational costs are likely to decrease with lower servicing requirements and reduction in fuel costs.



LE9. Transition to low carbon plant and equipment and increase operational efficiency	Measurement - Fuel Consumption	This includes the electrification and replacement of plant and equipment with more efficient assets. This action requires planned redundance of gas and fuel powered plant. In addition, a program is required to identify high energy use plant and equipment and plan for replacement with more efficient assets.
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12.11.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Vehicle Management relating to passenger vehicle grouping of the plant, fleet and equipment assets. The strategic response as it relates to the assets, and the consequences of not funding the impact is summarised below.

Future Impacts	Strategic Response	Consequences of Not Funding
Consolidating fleet options.	A review of options will enable decisions to optimise the management of fleet and improve certainty of whole of life costs.	The action is undertaken with internal resources at minimal operational cost. Failing to invest in the action is likely to result in greater uncertainty around whole of life fleet costs.
Review life of vehicles to optimise asset use.	The useful life of vehicles determines the change over time. The vehicle will have a longer service life than the optimised useful life, however the costs to operate and maintain increase and service reliability decreases.	Increased whole-of-life costs.
Enhanced environmental considerations and options within the fleet.	Moving towards low emissions vehicles in accordance with Net Zero objectives.	Impact on ability to meet targets for reducing emissions from fleet.
Introduction of IT system for Carpool operations.	The system will support greater utilisation of existing assets through improved access for users to available resources.	Reduced optimisation of resource usage and potential increase of carpool vehicles. Inefficiency through time loss of users looking for available fleet.

12.11.2.2 Future Demand

Demand drivers relating to plant, fleet, and equipment are directly related to the service the asset supports. In addition, two major demand drivers are summarised below:

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Electrification of fleet	Target of a transition to 50% of new EV	Change in fleet items.	The organisation has been trialling several EV options	Vehicle Management Program.

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	passenger vehicles acquired by 2030, and 100% of new vehicles by 2035. This is during the life of this plan	Charging infrastructure. Potential change in distance travelled or hours of operation.	to add to the fleet. Modify the passenger vehicle list to include EV options. AC Charging infrastructure installed in Administration building car park.	Charging infrastructure plan to be developed for additional workplaces and potential DC charging needs.
Population Growth and West Dapto land release	Increased population by 55,000	Increase in public infrastructure provision, including open space, roads, drainage, community buildings. Increases demand on plant and equipment that support these service areas, such as mowers, street sweepers, trucks, etc.	Service plans aligned to the forecast growth. Monitoring of growth rate to enable commissioning of required plant and equipment to meet the increased service demand.	Plant and equipment programs.

12.11.2.3 Plant, Fleet and Equipment Provision

Plant, fleet and equipment can be essential to supporting the respective service and assets are often used every day. Given the specific nature of the assessment for plant, fleet and equipment, the need for plant, fleet and equipment is considered as part each service. Business proposals are required to demonstrate the life-cycle cost and benefits to the service for any expansion to the fleet.

We will need to provide access to charging infrastructure as we transition to a low emission passenger fleet. We are still working through the options at this stage; however our current position is to provide Level 2 charges at workplaces and leverage the public network of Level 3 charges. Level 1 chargers essentially utilise a standard 240V single-phase wall outlet (about 2kW); Level 2 chargers are (typically) hard wired to either single phase (7kW) or three-phase (11-22KW); and Level 3 are DC fast chargers typically ranging from 50kW to over 200kW.

We will need to monitor operational need, supply of public infrastructure, costs, and efficiency as part of our internal service reviews. This will indicate whether we need to make any changes to the provision of charging infrastructure for our passenger fleet. Our demand may also grow a more options for light commercial and small trucks become readily available on the market.



12.11.3 Asset Snapshot

Asset Register - Fleet

Financial Reporting Group: Plant, Fleet and Equipment

Row Labels	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Sum of Current Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Earthmoving	57	9	5,806,028	587,712	2,120,080
Articulated Dump Truck	1	5	461,020	92,204	146,516
Backhoe	7	6	638,212	63,844	93,549
Excavators	21	9	1,501,639	152,283	858,316
Forklifts	7	12	113,813	8,685	70,766
Garbage Compactors	2	3	1,099,271	0	0
Loaders	5	8	762,561	64,193	589,700
Rollers	10	10	475,677	38,629	318,920
Skid Steer Loaders	3	13	82,335	0	0
Track Loaders	1	4	671,500	167,875	42,314
Executive / RFS*	6	9	287,551	35,170	241,840
Light Commercial	210	4	4,979,222	649,406	2,632,511
Various	8	4	197,551	12,848	171,157
LC 4x2 2,000 to 4,000 GVM	114	4	2,365,296	319,437	1,140,594
LC 4x4 2,000 to 4,000 GVM	67	5	2,001,234	264,051	1,088,530
Vans	14	4	415,141	53,070	232,230
Major Ancillary Equip	168	7	4,967,808	645,281	3,000,896
Miscellaneous	9	8	615,577	109,846	569,154
Air Compressor Over 20 cfm	1	15	29,600	1,974	19,399
All-Terrain Vehicle (ATV)	42	3	635,761	159,984	344,935
Caravan	12	15	562,020	37,476	321,884
Generator Fixed Power	5	6	111,837	11,085	42,395
High Pressure Gurney (major)	5	5	27,399	4,780	20,577
Jetski	16	2	70,909	15,455	44,181
Major Equipment - Fleet W/Shop	15	13	369,452	19,660	215,695
Major Equipment - Parks	8	10	167,648	14,884	100,373
Miscellaneous Major Plant or Equipment	30	9	458,611	28,685	182,888
Pool Cleaner	10	8	272,009	38,080	187,649
Sweepers (Footpath/Mall)	2	5	186,424	37,285	74,467
Sweepers (Large Road)	6	8	1,109,405	138,245	795,281
Water Tanks	1	8	0	0	0
Woodchipper	6	5	351,156	27,844	82,017
Minor Ancillary Equip	21	10	928,096	90,925	141,746
Various	2	3	258,605	86,202	131,184
Attachments	2	11	14,878	1,240	1
High Pressure Gurney (minor)	3	7	5,050	505	1
Minor Equipment (Miscellaneous)	5	13	475,649	1,801	6,790
Power tools Electrical/Cordless	1	15	5,990	399	2,362
Radio Communication Units	2	5	134,108	0	0

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Workshop Equipment (Minor)	4	17	33,817	778	1,407
Mowers	137	6	2,559,026	336,668	1,057,701
Ride-on Mowers	97	7	1,845,157	251,372	754,889
Tractor Mowers	36	6	700,751	83,984	298,201
Wicket Mower	3	7	13,117	1,312	4,611
Passenger Vehicles	273	3	4,210,053	550,533	2,988,790
Various	3	3	23,578	3,069	14,618
EV BYD Atto	5	3	242,802	35,478	240,342
EV BYD Seal	4	3	47,302	6,420	47,056
EV Kia Niro	15	3	523,832	61,763	494,602
EV MG4 64	2	3	40,801	5,406	39,294
Large Vehicle	10	3	115,239	21,280	61,864
PHEV	2	3	49,598	6,731	49,340
Small Vehicle	27	3	258,295	30,663	178,926
Standard Vehicle	150	3	2,908,607	379,723	1,862,748
Tractors	27	9	1,663,504	186,111	712,223
Tractors over 40 Hp under 80	9	9	399,448	49,958	49,393
Tractors over 80 Hp	13	8	1,116,374	122,338	630,942
Tractors up to 40 Hp	5	10	147,682	13,815	31,887
Trailers	110	10	1,008,430	72,935	530,347
Boat/Jetski Trailer	13	7	65,324	7,581	28,318
Box Trailer	21	13	150,961	7,843	48,348
Plant Trailer	22	14	195,134	13,342	96,079
Tandem Canopy Trailer	17	15	277,616	18,103	165,878
Tanker Trailer	4	12	55,403	4,153	5,284
Utility Trailer	32	6	263,992	21,914	186,440
Trucks and Buses	150	9	17,784,157	1,472,195	5,509,895
Buses	22	7	2,020,271	47,570	132,348
HC 4x2 12,000 to 20,000 GVM	33	9	5,186,619	333,984	1,490,902
HC 6x4 over 20,000 GVM	6	9	1,482,717	131,092	351,380
MC 4x2 4,000 to 8,000 GVM	26	8	1,515,532	137,324	594,433
MC 4x2 8,000 to 12,000 GVM	63	9	7,579,018	822,224	2,940,832
Grand Total	1093		44,193,875	4,626,937	18,936,030

[^]Council also operates four E-bikes – however the cost was below the threshold for recognising as a financial asset. They are part of our commitment to offering options to reduce emissions from Council operations.

^{*}Following a change in the way Rural Fire Vehicles are recorded in the asset register, the plant, fleet and equipment utilised by the Rural Fire Service (RFS) are listed by asset type, only legacy items are shown in this field. The RFS is now identified as the entity in the plant, fleet and equipment register.



The following table identifies the plant and fleet (included in the table above), that is associated with the Rural Fire Service:

Row Labels	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Executive / RFS	5	9	152,551	21,670	120,377
Light Commercial	20	10	851,506	52,036	255,600
Mowers	4	8	50,105	3,435	1,400
Trailers	8	13	102,643	6,592	11,752
Trucks and Buses					
HC 4x2 12,000 to 20,000 GVM	20	10	3,472,280	147,124	594,984
HC 6x4 over 20,000 GVM	1	12	199,093	0	0
MC 4x2 4,000 to 8,000 GVM	2	5	180,000	0	0
MC 4x2 8,000 to 12,000 GVM	6	15	927,510	49,981	296,904
Grand Total	66	10	5,935,688	280,838	1,281,018

Life: The useful life of plant, fleet and equipment is determined based on each grouping of assets. We take an approach of replacement of assets based on an optimal turn-over period to balance the whole of life cost. We are also transitioning to a lower emissions fleet, and the turn-over period is influenced by the availability of suitable alternative vehicles in larger vehicle categories.

A review of optimal asset turnover is currently underway, with chippers to be replaced at 10 years/3,000hrs.

The assessment of useful life associated with RFS plant and equipment is undertaken by the RFS.

Valuation Information: These assets are recognised at depreciated historical cost as an acceptable substitute for fair value because any difference between fair value and depreciated historical cost is unlikely to be material.

Fair Value Hierarchy – The key unobservable unit to the valuation of this category is asset condition and useful life. The condition of assets is reviewed on an annual basis and an assessment of remaining life undertaken based on these results.

12.11.3.1 Low Value Assets

In addition to the assets listed above, we operate over 850 low-valued tools and equipment that support the delivery of our services. Low-value assets are considered items that do not satisfy the criteria for asset recognition under the asset accounting policy. The primary reason is that the value of the asset is below the asset recognition financial threshold.

Asset Classifications	Count of Asset
Major Ancillary Equip	3
Generator Fixed Power	1
Major Equipment – Parks (Aerators)	2
Minor Ancillary Equip	791
Air Blowers	50
Air Compressors up to 20 cfm	19
Attachments	6
Brush Cutter	39



Chain Saws	31
Concrete Saws	19
Edgers (lawn)	19
Generator Portable	25
Hedge Trimmer	32
High Pressure Gurney (minor)	5
Jack Hammer	1
Minor Equipment - Fleet W/Shop	16
Minor Equipment - Parks	9
Minor Equipment - Works	50
Miscellaneous Small Plant or Equipment	107
Power tools Electrical/Cordless	337
Pumps	8
Vibrating Plates (whackers)	13
Welder	5
Mowers	47
Lawn Mowers	37
Wicket Mower	10
Rollers	2
Trailers	11
Utility Trailer	11
Grand Total	854

12.11.3.2 Components and attributes

The plant, fleet and equipment are currently recorded as single assets on the year of acquisition.

12.11.3.3 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 9.1.5. A review of the Council's 33 Services identified that the following critical services require the associated plant, fleet and equipment assets:

Critical Service	Plant, fleet and Equipment Asset	Management Plan Status for Asset	
Waste Service	Waste (Landfill) compactor	Operator's guide prepared	
Lifeguard	Jetskis and ATVs	Operator's guide prepared	
Emergency management support	Vehicles for managing road closures and assistance to emergency services during events.	To be determined	



12.11.3.4 Operation and maintenance requirements

Plant, fleet and equipment assets required for ongoing operational activities and maintenance actions to remain safe, functional, and fit for service. Requirements for operational activities and maintenance are typically specified by the manufacturer and guide the procedures implemented by Council. An example of the operational actions and maintenance activities for plant, fleet and equipment includes:

- Prestart checks
- Routine inspections
- · Registration and insurance
- Scheduled maintenance
- Replacement of wear and tear items

Council operates workshop facilities for the maintenance of most of the plant, fleet and equipment in-house. With the changes to work order management and smart devices such as plant telemetry, we are improving our understanding of utilisation and operational costs. This information will enable more informed decision making in future around the lifecycle approach for plant, fleet and equipment utilisation and a change to performance-based maintenance and disposal. At this point, the information is developing in maturity and assists in decision making about operational allocation and distribution of assets. As the level of information improves, it will help inform decisions about capital investment in plant, fleet and equipment.

12.11.3.5 Depreciation and degradation curves

Plant, fleet and equipment assets and component use a straight-line depreciation and degradation.

12.11.4 Roles and responsibilities

Service Manager: Manager Customer + Business Integrity – Passenger Vehicles & Light Commercial

Vehicles

Manager City Works - Plant & Equipment (Exc. Passenger Vehicles & Light

Commercial Vehicles)

Role	Lifecycle	Function	Responsible	Activities
Service Management	Planning	Service Planning	Service Manager	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Determine asset requirements for service delivery
	Operation	Service Operations	Manager Customer +	Act as customer liaison for service



Role	Lifecycle	Function	Responsible	Activities
T.O.O.	Lincoyolo	ranonon	Business Integrity Manager City Works	Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation
	Planning and End of Life	Asset Acquisitions and Disposals	Manager Customer + Business Integrity Manager City Works	Develop plan for acquisitions and disposals of assets Engage with stakeholder on acquisition and disposal plan Arrange transition of service Arrange establishment or termination of agreements (registrations, warranty, servicing)
		Asset Planning	Manager Customer + Business Integrity Manager City Works	Complete condition and performance assessment Assess asset related legislative requirements Asset review Renewal planning
Asset management	Planning	Asset Data	Manager Customer + Business Integrity Manager City Works	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
	Asset Financials		Manager Customer + Business Integrity Manager City Works	Unit rates Estimates Monitor expenditure
Plant and Equipment Procurement	Delivery	Project Sponsor	Director	Approval of project plan



Role	Lifecycle	Function	Responsible	Activities
				Oversee business proposal
				Define the problem/need
				Options assessment
		Asset	Service	Feasibility
		Concept	Manager	Lifecycle costing
				Funding strategy
				Business case/proposal
		Program Management	Manager Customer + Business Integrity Manager City Works	Oversee project as part of program Responsible for managing overall program costs, risks, progress
		Asset Delivery	Manager Customer + Business Integrity Manager City Works	Procurement strategy Contract management Procurement Oversee asset commissioning and handover
Maintenance	Maintenance	Asset Maintenance	Manager City Works	Complete maintenance inspections Establish maintenance procedures Undertake maintenance works
and Operation Management	Operation	Asset Operations	Manager Customer + Business Integrity Manager City Works	Registration Registration Inspection



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12.11.5 Performance

The performance of plant, fleet and equipment assets has traditionally been undertaken by the service area that the asset supports. A move towards more intelligent monitoring systems enables analysis of utilisation and capacity. Our maturity in this area is continuing to develop.

Condition is monitored as part of the procedures for operators of the assets and as part of the checks undertaken in conjunction with scheduled maintenance.

12.11.5.1 Customer Levels of Service

Plant, fleet and equipment customers are in discussions with Fleet Management regarding:

- Functionality of plant, fleet and equipment.
- · Safety of item.
- · Environmental impact of plant, fleet and equipment.
- Availability of plant, fleet and equipment to support service delivery.
- Compliance with replacement schedule (age, operating hours, distance travelled)

12.11.5.2 Technical Levels of Service

In managing the plant, fleet and equipment fleet, we monitor performance against the following criteria:

Cleanliness

- Servicing and maintenance intervals
- Downtime + uptime
- Plant, fleet and equipment rotation to balance usage

Utilisation

Unscheduled and scheduled maintenance

12.11.5.3 Legislative Requirements

There are legislative requirements associated with plant and fleet registration for assets intended to be used on the public road network with Transport for NSW. In addition, the Work Health and Safety (WH&S) legislation requires specified plant items that must be registered with SafeWork NSW or corresponding WH&S regulator.

12.11.6 Future Investments

12.11.6.1 Acquisition and Upgrade Plans

Acquisitions and upgrades of plant, fleet and equipment refers to additions to the current asset portfolio. It excludes renewal of existing items with a modern equivalent item.

The responsible service manager determines the requirements for plant, fleet and equipment to support the service. Any acquisitions and upgrades require the submission of a business proposal to define the need, the benefits, risks, and review the life-cycle cost. Proposals that have been through this assessment and supported based on the cost/benefit are included in the acquisition and upgrade plan below.

The following plant, fleet and equipment assets are forecast for acquisition during the 10-year period of this plan:



Description	Service	Planned Year of Acquisition	Estimated Value
EV Charging infrastructure – Level 2 and 3 chargers	Workplace locations	Various – depending on roll-out of EV's per site.	To be determined. The provision of charging infrastructure may require upgrades to distribution boards and/or substations to provide the required supply.
Minor increases when there is a movement from an allowance to passenger/light commercial vehicle	Various	As required – these are ad hoc acquisitions to meet changes to the business.	\$50,000

12.11.6.2 Decommissioning and Disposal Planning

We review the need for plant, fleet and equipment as part of our service reviews. A review of passenger vehicle fleet requirements is undertaken on a routine basis as part of the resource review when positions are vacated. Fixed plant is reviewed as part of the condition inspection associated with servicing. Major and minor plant is reviewed by the service manager in consultation with the City Works Workshop.

Assets no longer required to support the service based on cost and benefits, may be considered for decommissioning and disposal of assets. In some instances, we may look to dispose of existing assets and move toward an alternative method of supporting the service.

In some instances, unforeseen decommissioning may occur because of a change in legislation, premature failure of the asset, or a review triggered by some other action. In these instances, these assets will not be included in the plan below.

The following assets have been identified for decommissioning:

Description	Timing	Alternate Options
Minor reduction in passenger and light commercial vehicles as people move to an allowance	As requested	The alternative vehicle is provided by the user under a usage agreement.
Community transport – reduction in size of bus fleet	2024/2025	Reduced demand can be met with smaller fleet. Move to more efficient vehicles

12.11.6.3 Review of Service Life

There are currently 206 plant and equipment assets in service that were initially identified for replacement or disposal in prior years. A review will be undertaken of the condition and performance of the plant items to reassess the timing of replacement/disposal. In some instances, the deferral has occurred as the asset has not yet reached the planned operating hours or kilometres to trigger replacement. This review will also assist with the review of useful life for similar assets.

As part of the review, we will investigate options to rotate plant and equipment to balance operational use to optimise utilisation. This will include review of hours of use, kilometres travelled, number of repetitions, scheduled and unscheduled maintenance costs, and other factors that impact condition and performance.





12.11.6.4 Future investment plan – Plant, Fleet and Equipment

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Scheduled and reactive maintenance	1,691,757	1,793,048	1,893,052	1,998,955	2,123,548	2,251,100	2,385,208	2,539,774	2,697,551	2,841,736	2,993,627
Depreciation	4,626,937	4,752,494	4,752,494	4,752,494	4,752,494	4,752,494	4,752,494	4,752,494	4,752,494	4,752,494	4,752,494
Operating expenditure	6,318,694	6,545,542	6,645,546	6,751,449	6,876,043	7,003,594	7,137,702	7,292,268	7,450,045	7,594,230	7,746,121
Renewal works											
Emergency Services	-	-	-	-	-	300,000	300,000	-	300,000	300,000	300,000
Fleet	3,735,750	1,190,000	1,275,000	800,000	2,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000	1,800,000
Plant and Equipment	3,060,000	3,427,920	3,520,414	3,426,500	4,344,433	3,771,000	3,845,900	3,922,602	4,001,144	4,101,678	4,205,228
Upgrade works											
Emergency Services	-	-	-	-	-	-	-	-	-	-	-
Fleet	659,250	-	-	=	-	-	-	-	-	-	-
Plant and Equipment	540,000	-	-	-	-	-	-	-	-	-	-
Expansion works	-	-	-	-	-		-1	-	1	-	-
New works	-	-	-	•	-	-	-	-		-	-
Capital expenditure	7,995,000	4,617,920	4,795,414	4,226,500	7,144,433	5,871,000	5,945,900	5,722,602	6,101,144	6,201,678	6,305,228
Totals	14,313,694	11,163,462	11,440,960	10,977,949	14,020,476	12,874,594	13,083,602	13,014,870	13,551,189	13,795,908	14,051,349
Renewal and upgrade as a % of depreciation	173%	97%	101%	89%	150%	124%	125%	120%	128%	130%	133%



12.11.7 Plant, Fleet and Equipment Asset Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
11.1	Rural Fire Service (RFS) Plant and Equipment	Council does not directly provide or operate the RFS. We partner and provide support for the RFS; however, Council has limited input into the control of RFS plant and equipment. Assets utilised by the RFS appear on Council's asset register and financial statements.	RFS	2026
11.2	RFS Asset transfer	Advocate for changes to the requirements for Council to recognise plant and equipment that it does not effectively control	Council	2027
11.3	Useful life assessment	There is some variability in the useful life of assets of the same type. City Works manager in consultation with the relevant service manager should review the current useful life assessment as part of an annual process.	MCW	2025
11.4	Lifecycle cost	Investigate utilisation rates and options to rotate plant and equipment to balance and improve operational use. Review should include review of hours of use, kilometres travelled, number of repetitions, scheduled and unscheduled maintenance costs, and other factors that impact condition and performance	MCW	2026
11.5	Skill development	With an increasing transition away from non-renewal internal combustion engine plant and equipment to sustainable technology, the workforce will require continued skill development to operate, service and maintain battery electric vehicles and battery-operated plant and equipment.	MCW	2025
11.6	Charging Infrastructure Strategy & Plan	There is a need to prepare a strategy and supporting plan for EV charging infrastructure to support the move to an electrified plant and fleet. This plan is to include a review of requirements for type 2 (wall box 7-22kW) and type 3 (DC fast charge) chargers, appropriate space for charging, required separation for flammables at depots, the supply capacity for worksites to support charging and scope of upgrades (supply to the board and/or substations), use of public fast chargers, etc Plan should consider the requirements for charging all plant and equipment, including minor plant and tools.	MC+BI MCW	2025
11.7	Deferred renewals	Undertake a review of the condition and performance of plant items identified for renewal in prior years to reassess the timing of replacement/disposal.	MCW	2026
11.8	Component	Consider the merits of separately recognising tray-back, custom body options etc as separate components if there is likelihood of separating from cab-chassis	MC+BI	2025
11.9	Condition and Useful life	The network requires assessment of condition and remaining useful life. Chippers to be updated to 10yrs/3,000hrs.	MCW	2026



12.12 Library Collection and Resources

Council's Libraries provide information, access to technologies, opportunities to connect, learn and participate in community life and safe, accessible public spaces. Wollongong City Libraries consists of seven libraries located across the Local Government Area, with libraries in Corrimal, Dapto, Helensburgh, Thirroul, Unanderra, Warrawong, and Wollongong. In addition, seven street libraries are delivered across the Local Government Area, and through the Home Library Service, and a range of online services.

Wollongong City Libraries (WCL) offers the following services: lending of library materials (books, magazines, audiobooks, DVDs, CDs), reference and HSC collections, multi- lingual resources that meet the needs of our CALD community and interlibrary loans. Aside from physical items, the library also offers an extensive selection of eResources, including eBooks, eAudiobooks, eMagazines, movie and music streaming, social media sites, online customer voting for collection purchases, an online 24/7 catalogue, databases, online and face to face tutoring services.

A comprehensive Local Studies (History) collection is located at Wollongong Library, some of which is also available online (e.g.: Illawarra Images) and a quality Family History service is also offered.

Libraries provide free access to the Internet and public computers, free WiFi for those who bring their own devices and a variety of study spaces.

This section of the asset management plan focusses on the library resources used to deliver the library service to the community. Library collection and resources include collections of books, films, music, and magazines, in addition to IT equipment, furniture and fittings used to deliver these library services.

Buildings that provide a home for library services are included in the building section of the asset management plan.

12.12.1 Profile

Community Strategic Plan Goal: Goal 4: We have a healthy, respectful, and inclusive community

Service: Libraries

Libraries provide resources, spaces, people, and programs that support community learning, connection, creativity, and relaxation. The library services delivery stream is guided by Council's *Discover, learn, and connect Wollongong City Libraries Strategy 2024 - 2028* supporting document.

12.12.2 Strategic priorities

Library services are guided and informed by the following strategic supporting documents:

- Discover, learn, and connect Wollongong City Libraries Strategy 2024 2028
- Places for the Future' Social Infrastructure: Future Directions Plan 2023 2036
- Places for People Wollongong Social Infrastructure Planning Framework 2018-2028
- West Dapto Contributions Plan
- Wollongong City-Wide Development Contributions Plan
- · Asset Management Strategy

The libraries strategy identifies the following key strategic framework and priorities:





Vision - We are the heart of our community where everyone can discover, learn, and connect.

Purpose - We empower people through lifelong learning, resources, information, and experiences.

Goals - Our libraries will...

Goal 1 | Engage and connect with our community.

Goal 2 | Inspire our community to learn, share and celebrate.

Goal 3 | Develop customer-driven, dynamic, and sustainable collections.

Goal 4 | Create welcoming, vibrant, and inclusive places and spaces.

The following table summarises the actions from the library's strategy with a relationship to resource collection and an assessment of the direct impact:

Libraries Action	Measurement	Library Resource Impact
1.3 Maximise membership, visitation, and participation in WCL	1.3.2 increased number of physical loans 5% annually	Increased turnover of stock may require stock to be replaced more frequently as being borrowed more. No impact on overall budget as budget will be sourced from reductions in other collection areas
2.4 Share and celebrate the culture and history of First Nations people	2.4.4 First Nations communities' content in our library's collections to increase by 5% annually, subject to publication	No impact on overall collection budget as budget will be sourced from reductions in other collection areas
2.5 Share and celebrate the culture and history of culturally and linguistically diverse (CALD) communities	2.5.4 CALD communities' content in our library's collections to increase by 5% annually, subject to publication	No impact on overall collection budget as budget will be sourced from reductions in other collection areas
2.6 Share and celebrate people in the LGBTQIA+ community	2.6.4 Content representing people in the LGBTQIA+ community in our library's collections to increase by 5% annually, subject to publication	No impact on overall collection budget as budget will be sourced from reductions in other collection areas
2.7 Empower, champion, and celebrate people with disability	2.7.4 Inclusive and accessible content in our library's collections to increase by 5% annually, subject to publication	No impact on overall collection budget as budget will be sourced from reductions in other collection areas
3.1 Build dynamic, customer-driven collections	3.1.1 85% of customer recommended titles are acquired 3.1.2 85% of customer "Suggestion for Purchase" are processed within four weeks 3.1.3 increased number of physical loans 5% annually	No impact on overall collection budget as budget will be sourced from reductions in other collection areas
	3.1.4 increased number of digital loans 5% annually	
3.2 Maintain the openness, accessibility, and	3.2.1 Catalogue usage increases by 5% annually	No impact on overall budget No impact on overall collection budget as budget will be sourced

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inclusiveness of our collection	3.2.3 1,750 items digitised annually 3.2.4 25,000 titles catalogued annually 3.2.5 85% of new titles are on the shelves within seven working days from delivery 3.2.6 Content related to First Nations, CALD, and LGBTQIA+ communities to increase by 5% annually in our library's collections, subject to publication	from reductions in other collection areas
	3.2.7 Inclusive and accessible content in our library's collections to increase by 5% annually, subject to publication	
3.3 Our collections are financially and environmentally sustainable	3.3.1 Turnover of stock is greater than 3.0 annually 3.3.2 100% of library materials budget is expended annually 3.3.3 Implement resource recycling, end of life disposal and purchasing decisions by 2026, in line with Wollongong City Council's Sustainable Wollongong 2030 Strategy	No impact on overall collection or operational budget
3.4 Preserve and promote the Local Studies Collection	3.4.1 1,000 items added to the collection annually from donations and other sources. 3.4.2 Digitise 500 local studies items annually.	Digitisation will impact IT storage capacity and will increase data storage costs. IT has advised budget impact will be for WCL not IT.
4.4 Plan and deliver library infrastructure that meets the needs of the community	4.4.1 Deliver afterhours access at Helensburgh Library in 2025 4.4.3 Deliver Southern Suburbs Community Centre and Library in 2026-2027 4.4.4 Continue planning for Helensburgh Community Centre and Library 4.4.5 Deliver a refurbishment at Dapto Library in 2026-2027	4.4.1 After-hours access will require additional IT hardware and software components. This is to be considered in the scope for planned renewal at Helensburgh library. It will also increase the operational costs for the facility. 4.4.3 & 4.4.4 Collection and resources will be included in the scope considerations for Southern Suburbs and Helensburgh Libraries. 4.4.5. The timing of the refurbishment is to be considered under the building asset management plan. There is unlikely to be any significant impact on the library collection and resources at this location.

12.12.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Library Services relating to library resources. The strategic response as it relates to library resource assets, and the consequences of not funding the impact is summarised below.



Future Impacts	Strategic Response	Consequences of Not Funding
The Discover, learn and connect Wollongong City Libraries Strategy 2024- 2028, will replace the previous Wollongong City Libraries Strategy, setting new directions and aspirations for Wollongong City Libraries.	The actions from the updated strategy relating to library resources are listed above with an assessment of the impact on the library resource assets.	Wollongong City Libraries will face challenges in providing a contemporary collection and library service to the community
Libraries were impacted significantly through the Covid-19 pandemic and are re-building program participation and physical visitation. The surge in e- and web-based participation and access to library resources that was evident during the pandemic has remained high, while demand for physical materials has continued to grow back to pre-pandemic levels.	Visitation numbers have increased, and this factor is no longer considered an impact	N/A
Continually evolving technologies and media for engagement with the community will create pressures to respond and to stay ahead of the game, in terms of knowledge and resources.	Whilst this was considered a future impact, there is minimal impact at this stage and does not require a strategic response	N/A
The role of libraries in promoting social inclusion and social justice will continue to become more critical, as social inequality becomes more pronounced. The role of libraries in offering a safe, welcoming, and inclusive space, where diverse views and identities are encouraged and where services are free, will also become more critical. At the same time, working with people who have experienced trauma and who face ongoing life challenges demands new ways of working and new capabilities for the WCL team.	Develop partnerships to deliver more social services	Additional funding may be required to provide this level of service
The planning, design, and construction of new libraries at Warrawong and Helensburgh, within the context of a multipurpose Community Centre and Library will require ongoing focus and commitment of resources over the next five years.	Continue to work with WCL and external organisations to plan, resource and equip the new facilities	Not providing commensurate level of service to these communities
The impact of the West Dapto land release and development and growth of new communities in the southwest of the city will demand further consideration regarding provision of libraries social infrastructure and planning for future service delivery.	Plan for new library to service the growing population in this area	Not providing commensurate level of service to these communities

12.12.2.2 Future Demand

The Places for People – Wollongong Social Infrastructure Planning Framework 2018-2028 identified the likely changes to our community in the future and the implications of population context. These implications

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will create changes in demand that influences our planning associated with library resources, as summarised below:

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth -	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of more than 30,000 people.	Need for increased floorspace and resources (collection, IT, furniture & fittings) to support growth		
Increased Residential Density	Increased residential density in some of the district hubs within the LGA, such as Corrimal, which will impact on local social infrastructure resources			
Population Ageing	The average age of the population is increasing, and the proportion of people aged 75+ increases.	increased need to create environments that are accessible for people with vision or auditory impairment; increase in Home Library Services membership		
Newly Arrived Communities – Migration and Sea Change		Increased demand for CALD community resource content	Increase CALD communities' content in our library's collections to increase by 5% annually, subject to publication	No impact on overall collection budget as budget will be sourced from reductions in other collection areas
Culture and Diversity		Demand for more diverse and inclusive resource content	First Nations communities' content in our library's collections to increase by 5% annually, subject to publication Content representing people in the LGBTQIA+ community in our	No impact on overall collection budget as budget will be sourced from reductions in other collection areas



library's collections to increase by 5% annually, subject to publication
Inclusive and accessible content in our library's collections to increase by 5% annually, subject to publication

12.12.2.3 Library Provision

Libraries are considered as part of the Foundation social infrastructure facilities intended for wide community use daily with provision for community spaces for a variety of activities. The following table provides a summary of hierarchy from the Social Infrastructure: Future Directions Plan and resource offerings for each of the library service locations:

Hierarchy	Location	Features
Local	UnanderraHelensburghBong Bong*	Facilities offering a smaller collection of resources. Bong Bong Library and Community Centre has been identified in the Places for the Future Social Infrastructure – Future Directions plan. The library is proposed to support the planned growth areas of West Dapto.
Sub-District	Dapto Warrawong	Dapto and Warrawong - have large collections of books, films, music, and magazines, with free technology and internet access. Dapto is located on level one of the Ribbonwood Centre. Warrawong is currently located on level one of a retail complex on the corner of King and Hoskins Streets, just south of Darcy Wentworth Park playing fields.
District	Corrimal Thirroul	A large collection of books, films, music, and magazines, with free technology and internet access. Thirroul is the largest library in Wollongong's northern suburbs is home to an extensive collection of resources.
Regional	Wollongong	Wollongong Library is spread over two floors of the Wollongong City Council building. The library boasts an extensive collection of books, movies, music and journals, free technology, and internet access, and is home to the region's largest local studies collection.
Street Libraries	 Gwynneville Bulli Wollongong Corrimal Port Kembla Warrawong Keiraville 	The collection is not managed by Council and is not included in the value of the resources. The service operates on a charitable basis, with books donated and the service managed by community.



12.12.3 Asset Snapshot

Asset Register - Office/Other Assets

Financial Reporting Group: Library books

Valuation Information: – These assets are recognised at depreciated historical cost as an acceptable substitute for fair value because any difference between fair value and depreciated historical cost is unlikely to be material.

Description	Financial Reporting	Useful Life	Carrying Value	Annual Dep	Current Asset Cost	
	Group	(Yrs)	(\$,000) @ 30 June 2024			
Library books	Library Books	6yr & 8mth	5,021	1,337	10,074	
Weblinks Library		33	1	0.1	5	
Outdoor bookcase	Furniture and Fittings	10	21	6	62	
Furniture	Furniture and Fittings	10	14		109	
Total			5,057	1,343	10,250	

12.12.3.1 Components and attributes

The library resources are currently recorded as single assets on the year of acquisition.

12.12.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 9.1.5. A review of the Library Service identified that it is not a critical service, and consequently, does not have critical assets.

As part of the arrangements for the Illawarra Local Emergency Management Plan, community centres collocated within Libraries may be identified as evacuation centres or places of refuge during emergency response and disaster recovery phases. This is considered a critical service and will impact on the operation of the library service as the activation of the centre will require library team members involvement. The assets required to support the critical service of Emergency Management are addressed in the Building section of the asset management plan. This critical service does not require library resource assets.

12.12.3.3 Depreciation and degradation curves

Library Resource assets and component use a straight-line depreciation.



12.12.4 Roles and responsibilities

Service Manager: Manager Libraries + Community Facilities (table relates to library collection and resources only – not the library building)

Role	Function	Responsible	Collaborate	Activities	
	Service Planning	Manager Libraries + Community Facilities	Strategic Planning Infrastructure Strategy & Planning	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine asset requirements for service delivery	
Service Management	Service Operations	Manager Libraries + Community Facilities	Customer + Business Integrity	Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation	
	Asset Acquisitions and Disposals	Manager Libraries + Community Facilities	Customer + Business Integrity (Procuremen t)	Develop plan for acquisitions and disposals of assets Arrange relocation or transition of service Arrange establishment or termination of agreements (distribution)	
	Asset Planning	Manager Libraries + Community Facilities		Complete condition and performance assessment Assess asset related legislative requirements Asset review Renewal planning	
Asset management	Asset Data	Manager Libraries + Community Facilities		Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data	
	Asset Financials	Manager Libraries + Community Facilities		Revaluation Unit rates Estimates	

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		Finance (reval)		Monitor expenditure		
Project Delivery	Asset Concept	Manager Libraries + Community Facilities	Manager City Works	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal		
	Asset Design	Manager Libraries + Community Facilities		Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process		
	Asset Delivery	Manager Libraries + Community Facilities		Cost estimate Procurement Oversee project commissioning and handover		
Maintenance and Operation Management	Asset Maintenance	Manager Libraries + Community Facilities		Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works		
	Asset Operations	Manager Libraries + Community Facilities		Catalogue		

12.12.5 Performance

We monitor the performance of our library resource assets by:

- Condition the actual physical and technical state of the asset.
- Functionality the ability of the collection to meet service needs.
- Capacity the ability of the collection to meet demand.

Library resources are inspected on an on-going basis as the collection is circulated through the library network. The library strategy identified key focus areas for updating the collection.



12.12.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey shows a high level of satisfaction with the provision of library services survey achieved satisfaction ratings as follows:

- District Library and Community Centres Satisfaction 79% Rating 4.3 / 5.0
- Wollongong City Library Satisfaction 85% Rating 4.3 / 5.0
- Local Branch Libraries Satisfaction 68% Rating 3.9 / 5.0

12.12.5.2 Legislative Requirements

Wollongong adopted the Library Act 1939 On 28 November 1947.

Section 10 of the *Library Act 1939* sets out requirements that local authorities (councils) must comply with in the operation of a public library. These requirements are:

- free membership
- free access
- free loans
- free delivery
- free basic reference service

The <u>Library Regulation 2018</u> outlines the conduct of users, determination of populations for funding purposes and the authority of local councils to make rules for use of their library.

12.12.6 Future Investments

12.12.6.1 Acquisition and Upgrade Plans

We anticipate upgrade to the library resources collection during the 10-year period of this plan to coincide with changes to facilities at Warrawong and Helensburgh.

12.12.6.2 Decommissioning and Disposal Planning

We review customer need through regular customer survey. Where we identify that library resources are no longer valued or utilised by customers, by analysing loan statistics. Library resources that are no longer being regularly borrowed are removed from the collection.

As part of our annual cycle of replacing library resources, we plan disposals when the asset has been damaged or is no longer being borrowed. We anticipate that part of the collection may be disposed following the decanting and relocation from current facilities in Warrawong and Helensburgh to new locations.



12.12.6.3 Future investment plan – Library Collection and Resources

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	1,343,000	1,369,999	1,397,588	1,425,843	1,454,692	1,454,692	1,454,692	1,454,692	1,454,692	1,454,692	1,454,692
Operating expenditure	1,343,000	1,369,999	1,397,588	1,425,843	1,454,692	1,454,692	1,454,692	1,454,692	1,454,692	1,454,692	1,454,692
Renewal works	1,167,687	1,193,187	1,222,014	1,247,676	1,503,100	1,467,135	1,501,672	1,537,038	1,573,252	1,610,335	1,647,419
Upgrade works	206,062	210,562	215,649	220,178	-	-	-	-	-	-	-
Expansion works	-	-	-	-	-	-	-	-	-	-	-
New works	-	-	-	-	-	-	-	-	-	-	-
Capital expenditure	1,373,749	1,403,749	1,437,663	1,467,854	1,503,100	1,467,135	1,501,672	1,537,038	1,573,252	1,610,335	1,647,419
Totals	2,716,749	2,773,748	2,835,251	2,893,697	2,957,792	2,921,827	2,956,364	2,991,730	3,027,944	3,065,027	3,102,111
Renewal and upgrade as a % of depreciation	102%	102%	103%	103%	103%	101%	103%	106%	108%	111%	113%



12.12.7 Library Resource Asset Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
12.1	Asset review	The asset register includes Weblinks, book stands for Street Libraries and specialised furniture items as library assets. These assets should be reviewed to monitor condition and plan for future requirements.	ML+CF	2025
12.2	Future demands	Review future demands to determine impact on the library resources and collection assets	ML+CF	2025
12.3	Condition and Useful life	The network requires assessment of condition and remaining useful life.	ML+CF	2026



12.13 Information Management & Technology

Our Information Management and Technology (IM&T) service includes the service delivery of information management; information technology program and strategy; cyber security and technology support services.

The purpose of Information Management is maintaining Council information and information for use to inform Council decision-making and community service provision and protect and preserve information from malicious use or misconduct.

The service of Information Technology Programs and Strategy defines how technology and Information Technology processes are used to align with Council's business goals. The service ensures that Council's Information Management and Technology capability and capacity is aligned to its business objectives thereby maximising return on investment.

The cybersecurity function views the risks facing the Council and put in place the necessary information security technology and processes to minimise these risks.

Council relies heavily on Information Technology to support its business processes. Technology and support services assist in protecting Council from cyber-attacks and reduce the risk of systems unavailability.

12.13.1 Profile

Community Strategic Plan Goal: Support Services

Service: Information Management and Technology (IM&T)

This service delivers digitally enabled, information driven and secure services that empower our customer community. Council relies on effective information and communication technology to enable its business functions, increase efficiency and to achieve our purpose of creating an extraordinary Wollongong. Effective information management and technology is critical to the operation of Council and for the delivery of services that it provides for residents, rate payers, visitors, and businesses.

With significant change in system architecture over the last 5 years as part of our Cloud Transformation Program, there has been a significant reduction in the traditional server and storage hardware and increase in intangible assets. Intangible assets such as information, enterprise platforms and applications still require lifecycle management, with associated actions and expenditure throughout the useful life of the asset. This plan focuses on the management of fixed (physical) assets, which includes the hardware infrastructure such as network devices and end user equipment including laptops, monitors, and other peripheral devices.

12.13.2 Strategic priorities

The Information Management and Technology service is guided by our Information Management & Technology Strategy 2022-2024 that forms part of the Resourcing Strategy.

The following table summarises the strategic focus areas and actions from the IM&T strategy and relationship to assets:



IM&T Focus Area	Action Description	IM&T Asset Impact
	Action 1.1 - Cloud Transformation Program	Decommissioning of existing data centres and asset Introduction of new software services
	Action 1.2 Artificial Intelligence Interactive Signage	Potential digital signage Alternate – data hosting and public access to information
Customer Value	Action 1.3 Digital Screen Interoperability	Network cabling Renewal of screens
	Action 1.4 Customer Relationship Management	Procure and commissioning new service
	Action 1.5 Virtual Telephony	Redundancy of desktop telephony hardware Acquisition of headsets
	Action 2.1 Smart City Condition Auditing	Acquisition of hardware Procurement of service agreement
	Action 2.2 Smart City Recreation	Procurement of hardware and service
Smart City Optimisation	Action 2.3 Storm Water Management	Procurement of hardware and service
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Action 2.4 Smart City Parking Meter	Renewal of hardware and service Upgrade of service to provide additional functionality
	Action 2.5 Smart City Waste Management	Acquisition of sensor Monitoring program
	Action 3.1 Review of Council Bookings	Decommissioning of legacy systems Commissioning of new service
	Action 3.2 Information Flow Program	Integration service
Improved Productivity	Action 3.3 OneCouncil	Decommission legacy systems Commission new services
,	Action 3.4 Upgrading of Audio-Visual Equipment	Renewal of existing assetsAcquisition of additional assets
	Action 3.5 Fleet Management	Acquisition of hardware Service acquisition and development for analytics
	Action 4.1 Enabling Smart Monitoring and Decision Making	Renewal of CCTV infrastructure
Insightful Information	Action 4.2 Big Data	Decommission legacy systems Commission new systems
	Action 4.3 HR Analytics	Implementation of business intelligence service
	Action 4.4 Data Stream Project	Acquisition of data stream platform



Secure	Action 5.1 Identity Access Management Program	Procurement and commissioning of new service
Information	Action 5.2 Cyber Fraud Control	Procurement and implementation of new service.
Proactive Planning and Governance	Action 6.1 Consolidation of Council's Networks	Upgrade of network switching and cabling

12.13.2.1 Future Impacts

Future Impacts	Strategic Response	Consequences of Not Funding
Council is well progressed in relation to the electronic management of records	Although the management of unstructured data (records) is quite mature the management of structured data is not. Future digital strategies will include programs to improve the management and quality of Council data.	Council has significant stores of structured data, which if mined to assist greatly in Council decision making. Currently the data is dispersed and of poor quality. Without a significant effort the organisational benefits of this data will not be derived.
The requirement to support staff in their use of the electronic document management system is significant as is the compliance requirement to ensure correct record-keeping practices.	Council is legislated to comply with the State Records Act (1998).	Information Management training and on-going monitoring is required to ensure compliance with the State Records Act (1998).
There is an increasing demand for the scanning services and presently the demand cannot be met.	Council supports a repository of paper-based documents. The cost of sustaining this repository is substantial and on-going. So too is the risk of maintaining Council's records in hardcopy.	The risk of not funding on going digitalisation of aged records is that Council will continue to be tied to the records repository for the storage of hardcopy records.
The continued progression to mobile application-based working, as opposed to traditional paper-based methods will help address this challenge. A present and future challenge is disposal of documents in the digital environment.	Data storage has historically been a hidden cost. On-site storage limited Council's agility and flexibility. Storage in the cloud is scalable and agile but is transparent as a cost to doing business.	Council needs to understand the value of its information assets and store this information in accord to its value.
Increasing use of modelling, particularly in emergency management is driving demand in spatial services.	Location intelligence provides predictive insights into where and when Council needs to provide services improving organisational efficiency and effectiveness.	The provision of services will be less efficient and less than optimal.
Proactively plan and respond to constant changes in technology and Council's legislative obligations within Council's resources.	Newer technologies if appropriate and well deployed provide opportunities to better meet the needs of the Community.	Opportunities will be lost if the newer technologies, such as Artificial Intelligence are not exploited.



Increasing digitalisation to enable Council to improve the delivery of information and services to the community; ensuring Council exploits opportunities provided by emerging technologies.	Information Technology in the past was a back-office function. However, with the advent of cloud computing, and the availability of digital service at anytime, anywhere and on any device, information technology and digital have become "the way" of doing business.	The provision of services will be less efficient and less than optimal.
Customer demands for digital services are increasing. Digital natives are reaching adulthood, it is their expectation that they can self-serve council services at any time, on any device from any place	Information Technology in the past was a back-office function. With the advent of cloud computing, and the availability of digital service at anytime, anywhere and on any device, information technology and digital have become "the way" of doing business.	Customer expectation will not be met, and the provision of services will be less efficient and less than optimal.
The cyber threat continues to escalate, and Council will need to continue to respond to the continued threat and the associated changes to legislation.	Council can reduce the risk of cyber-attack and reduce the financial impact of an attack if it does occur by investing cyber security	The required safeguards for the community's data will not be in place. It will not be possible to ensure that sensitive data remains confidential, secure, and only accessible to authorized individuals.
Cyber Security as a risk to Council is increasing particularly in response to global events.	Council can reduce the risk of cyber-attack and reduce the financial impact of an attack if it does occur by investing cyber security	The required safeguards for the community's data will not be in place. It will not be possible to ensure that sensitive data remains confidential, secure, and only accessible to authorized individuals.
Continue to develop the knowledge and skills of our team to maintain a contemporary and customer focused service.	The technology landscape is constantly evolving. To support this landscape Council needs a knowledgeable and skilled workforce.	Council will not be able to implement and support contemporary technology solution to enhance service delivery.
Manage the transition to cloud based technologies inclusive of storage, compute, and network re-architecture.	Cloud computing will bring with it cost efficiency, scalability, flexibility, and agility	Customer expectation will not be met, and the provision of services will be less efficient and less than optimal.
Support the growth of an increasing mobilised workforce and mobile enabled business processes.	To garner the efficiencies derived from near real time responsiveness a mobilised workforce is essential	Paper based processes which inherently include duplication of data entry will pervade, limiting the efficiency possible from our workforce.
Digital transformation requiring more secure 24 x 7 online services.	With the advent of cloud computing, and the availability of digital service at anytime, anywhere and on any device, information technology and digital	Customer expectation will not be met, and the provision of services will be less efficient and less than optimal.



	have become "the way" of doing business.	
A rapidly changing data security threat environment.	Council can reduce the risk of cyber-attack and reduce the financial impact of an attack if it does occur by investing cyber security	The required safeguards for the community's data will not be in place. It will not be possible to ensure that sensitive data remains confidential, secure, and only accessible to authorized individuals.
Upgrading Council's audio and visual capability	Improving communication and consultation is key to delivering customer focused services	Information silos will continue. Customer and staff engagement will be compromised.
Reviewing and enhancing business applications.	Our community has told us that they want more modern ways to interact with Council. Reviewing and enhancing business applications will break down the silos and mitigate the need for duplicating data entry.	Information silos will continue. Customer and staff engagement will be compromised.

12.13.2.2 Future Demand

The following demand drivers have been identified for this service:

- The requirement to support staff in their use of the electronic document management system and records compliance requirements.
- · Increasing demand for the scanning services and presently the demand cannot be met.
- Progression to mobile application-based working. A present and future challenge is disposal of documents in the digital environment.
- Increasing use of modelling, particularly in emergency management is driving demand in spatial services.
- Proactively plan and respond to constant changes in technology and Council's legislative obligations within Council's resources.
- Increasing digitalisation to enable Council to improve the delivery of information and services to the community; ensuring Council exploits opportunities provided by emerging technologies.
- Customer demands for digital services are increasing. Digital natives are reaching adulthood, it is their
 expectation that they can self-serve council services at any time, on any device from any place
- The environment around cyber security continues to change and Council will need to continue to respond to the environment and changes to legislation.
- Cyber Security as a risk to Council is increasing particularly in response to global events.
- Continue to develop the knowledge and skills of our team to maintain a contemporary and customer focused service.
- Manage the transition to cloud based technologies inclusive of storage, compute, and network rearchitecture.
- Support the growth of an increasing mobilised workforce and mobile enabled business processes.





- Digital transformation requiring more secure 24 x 7 online services.
- A rapidly changing data security threat environment.
- Upgrading Council's audio and visual capability
- Reviewing and enhancing business applications.

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Electronic management of records	Increase or decrease ARMAT	Managing upgrades as require	Contractual -yearly	State Records and Archives Authority

12.13.2.3 IM&T Provision

IM&T provides a range of assets to support service delivery including:

Asset Class	Tangible / Intangible	Features
CCTV	Tangible	Requires the implementation of a software as a service and network connectivity
Data Centre Infrastructure	Tangible	Reducing requirement due to the implementation of As a Service, however some hardware will remain on premise by the nature of the business requirements
Desktop Technology	Tangible	On-going and increasing demand due to the changes of business need. Include tablets, laptops, desktop computers and all in ones.
Imaging / Scanning	Tangible	
Library Technologies	Tangible	Various needs
Mobile Technology	Tangible	On-going and increasing demand due to the changes of business need. Include tablets, laptops, desktop computers and all in ones. Smart phones are included.
Network	Tangible	Due to technology improvements life span of network equipment is decreasing. Includes cabling switching and firewall appliances.
Printers	Tangible	Council has a wide array of print services supporting various business functions. From large format printing in the Print Room to handheld printers for Rangers. Print services are constantly being reviewed to determine if alternate digital mechanism would better serve the community.
Telephony / Conferencing	Tangible	Headsets and handsets only. Telephony being delivered as a service.



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Asset Management Plans

12.13.3 Asset Snapshot

Asset Register - Office/Other Assets

Valuation Information: – These assets are recognised at depreciated historical cost as an acceptable substitute for fair value. Any difference between fair value and depreciated historical cost is unlikely to be material.

Row Labels	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Sum of Current Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Accessories	5	3	537,612	121,062	447,259
Cameras	7	9	1,117,265	57,954	185,908
Computer Units, Laptops/Hybrids, and Tablets	16	4	3,237,438	456,889	1,193,198
Dongles and Hotspots	1	5	25,106	0	0
Miscellaneous	17	6	2,659,973	53,790	191,191
Monitors and Screens	4	5	126,740	0	0
Network Infrastructure	57	9	1,974,774	325,304	547,989
Phones and Headsets	5	4	255,245	14,402	21,435
Printers	8	5	705,505	61,742	223,071
Scanners	2	5	78,854	0	0
Servers and Storage	3	6	184,999	2,146	10,725
Specialist Library Infrastructure	1	5	194,127	0	0
Virtual Assets	37	6	4,488,753	0	0
Grand Total			15,586,392	1,093,290	2,820,776

12.13.3.1 Components and attributes

The IM&T assets are currently recorded as single assets on the year of acquisition.

12.13.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 9.1.5.2. A review of the IM&T identified that it provides critical services, with the following critical assets:

- OneCouncil
- Office 365
- Azure Active Directory
- Telecommunications network



12.13.3.3 Operation and maintenance requirements

The IM&T assets require the following operation and maintenance

- Regular upgrading of software services
- · Upgrading of virtualised services
- Regular upgrading of firmware on telecommunications equipment (switches, firewalls, and networks)
- Software patching and package management on peripheral devices (laptops, tablets, smartphones)
- On-going break-fix service offered through the Service Desk
- · Review and maintenance of Wireless Access Points
- Cyber Security testing and upgrades
- photocopier maintenance
- Support and maintenance of the CCTV camera fleet
- · Support and maintenance of radios

12.13.3.4 Depreciation and degradation curves

IM&T assets use a straight-line depreciation.

12.13.4 Roles and responsibilities

Service Manager: Chief Digital and Information Officer

Role	Function	Responsibility	Collaborators	Activities
Service Management	Service Planning	Chief Digital and Information Officer	Service Manager*	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements (Service Manager) Establish customer levels of service Determine asset requirements for service delivery
	Service Operations	Chief Digital and Information Officer	Customer + Business Integrity	Act as customer liaison for service Provide information and communications to customers Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service and asset utilisation



	Asset Acquisitions and Disposals	Chief Digital and Information Officer	Customer + Business Integrity	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange or transition of service and data migration Arrange establishment or termination of agreements
	Asset Planning	Chief Digital and Information Officer	Service Manager*	Complete performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal/upgrade planning
Asset management	Asset Data	Chief Digital and Information Officer	Nil	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
	Asset Financials	Chief Digital and Information Officer	Chief Financial Officer	Revaluation Unit rates Estimates Monitor expenditure
	Project Sponsor	Director Corporate Services		Capital expenditure review (OLG) Approval project governance framework Approve and monitor project plan
Project Delivery	Asset Concept	Service Manager	Chief Digital and Information Officer	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
	Program Management	Chief Digital and Information Officer		Oversee project as part of program Responsible for managing overall program costs, risks, progress



	Asset Design and System Architecture	Chief Digital and Information Officer		Ensure design solutions align with strategy Options analysis Proof of concepts Cost estimating Approvals process
	Asset Delivery	Chief Digital and Information Officer		Procurement strategy Contract management Project management User acceptance testing Oversee project commissioning and handover
Maintenance and Operation Management	Asset Maintenance	Chief Digital and Information Officer	Service Manager*	Complete maintenance inspections and testing Helpdesk triage and scheduling Establish maintenance protocols and procedures Undertake maintenance requests Oversee updates and user acceptance testing Develop test scripts
	Asset Operations			Help desk Vendor management Business continuity planning and desktop testing

^{*}IM&T Projects are often generated by a Service Manager to support the needs of their business. The relevant Service Manager will be a key stakeholder.

12.13.5 Performance

We monitor the performance of our assets by:

- Condition the actual physical and technical state of the asset.
- Functionality the ability of the physical infrastructure to meet service needs including social, technological, environmental, and economic performance.
- Capacity the ability of the physical infrastructure to meet demand and be compatible with the ICT environment.
- Compatibility with the Enterprise Architecture (Application Portfolio Model, Information architecture, and Infrastructure Portfolio Model)
- Alignment with the IMT Principles as outlined in the Enterprise Architecture



Technology also presents opportunities for Council's community facing business units to improve their efficiency or effectiveness. Technological innovations are often disruptive and will radically change how the business delivers its services.

By undertaking regular assessments, we determine which assets meet our levels of service and which require capital intervention – renewal, upgrade, or expansion – to meet service level thresholds.

12.13.5.1 Customer Satisfaction Survey

IM&T are committed to providing quality services and provide customer survey with helpdesk requests.

12.13.5.2 Legislative Requirements

The following legislation is associated with IM&T service provision:

- NSW State Records Act (1998)
- Surveillance Devices Act 2007
- Privacy Act 1988
- Privacy and Personal Information Protection Act 1998
- Workplace Surveillance Act 2005
- Radiocommunications Act 1992
- Radiocommunications Legislation Amendment (Reform and Modernisation) Act 2020

12.13.6 Future Investments

12.13.6.1 Acquisition and Upgrade Plans

ICT assets have a technological lifespan. Assets reach end of life when they are no longer satisfy our risk appetite. Assets present a risk when they are no longer contemporary, and when they are no longer interoperable with the remainder of Council's ICT landscape. Alternatively, if they cannot be patched to mitigate a cyber security vulnerability.

The following IM&T assets are forecast for acquisition during the 10-year period of this plan:

Asset Classification	Description
CCTV	CCTV cameras and supporting infrastructure
Radios	Two-way communications for areas of no network connectivity
Laptops and Tablets	Desktop, laptop, and tablet computing devices including docking stations, headsets (wired and wireless) and monitors etc.
Printers and scanners	Large and small printers and scanners including handheld printers, desktop, and standalone printers
Telecommunications networking	Cabling, switches, wireless access points appliances
Servers	On premise servers
Telephony	Handsets, smart phones, mobile phones, desktop handpieces



Audio Visual	Video screens, conferencing equipment, audio visual equipment, camera
Equipment	equipment

12.13.6.2 Decommissioning and Disposal Planning

IM&T review the service provided with Service Managers to identify the need for decommissioning of assets. This review is influenced by service contracts and vendor's application road maps.

Unforeseen decommissioning may result where applications road maps indicate end of support and development.

The following assets have been identified for decommissioning:

Asset Classification	Description	Timing	Alternate Service
Data Centre Infrastructure	Data centre	ТВО	SaaS, PaaS and/or laaS



12.13.6.3 Future investment plan – Information Management and Technology

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	1,093,290	1,096,411	1,099,357	1,102,865	1,106,372	1,109,879	1,109,879	1,109,879	1,109,879	1,109,879	1,109,879
Operating expenditure	1,093,290	1,096,411	1,099,357	1,102,865	1,106,372	1,109,879	1,109,879	1,109,879	1,109,879	1,109,879	1,109,879
Renewal works	1,107,850	1,258,000	800,000	950,000	883,000	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954
Upgrade works	187,650	100,000	50,000	50,000	-	-	-	-	-	-	-
Expansion works	44,500	42,000	50,000	50,000	50000	-	-	-	-	-	-
New works	-	-	-	-	-	-	-	-	-	-	-
Capital expenditure	1,340,000	1,400,000	900,000	1,050,000	933,000	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954	1,307,954
Totals	2,433,290	2,496,411	1,999,357	2,152,865	2,039,372	2,417,833	2,417,833	2,417,833	2,417,833	2,417,833	2,417,833
Renewal and upgrade as a % of depreciation	118%	124%	77%	91%	80%	118%	118%	118%	118%	118%	118%



12.13.7 Information Management & Technology Asset Improvement Program

Item	Issue	Description	Responsible	Timing
13.1	Review and update the asset register	Review the definitions and descriptions to improve consistency of asset attributes. Consider developing a data dictionary.	Chief Digital and Information Officer	2026



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12.14 Artworks, Antiquities and Memorials

Council manages over 3,000 pieces of art, antiquities, and memorials on behalf of the community. These pieces contribute to the cultural fabric of the community. This section of the asset management plan focusses on the collection of antiques, public art, artworks, and memorials in open space.

12.14.1 Profile

Community Strategic Plan Goal: Goal 3: We foster a diverse economy, and we value innovation, culture, and creativity

Service: Cultural Services

Provide direction for the creative sector, support and grow creative industries and support community participation in creative life and celebrate our unique places and spaces. Participate in strategic planning for Wollongong heritage collections, implement strategies from Creative Wollongong 2024-2033 and Animating Wollongong Public Art Strategy 2022-2032. Facilitate the Lower Town Hall as a creative low-cost artist's studios. Manage the annual Small Cultural Grants program and community cultural festivals and events.

Showcase Wollongong's unique strength and character through a dynamic and respectful public art approach that values and supports the city's creative communities and sparks collective imaginations. Deliver strategies identified in Animating Wollongong 2022-2032, ensuring public art is a key consideration in the development of Council's assets across the Local Government Area. Championing a culture that recognises public art as an intrinsic element in the aesthetics and placemaking of the city. This includes coordination of the annual Public Art Maintenance program.

The Wollongong Art Gallery has a key role in the history of Wollongong and is a current civic centre for creative and cultural events and exhibitions. Deliver an annual program of exhibitions, educational and community participation opportunities at the Wollongong Art Gallery. Manage the Wollongong Art Gallery collection, including acquisition of new works.

12.14.2 Strategic priorities

The key supporting documents that inform decisions relating to artwork and antiquities are:

- Animating Wollongong Public Art Strategy
- · Creative Wollongong
- Wollongong Art Gallery Strategic Plan
- Major Events Strategy

12.14.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for cultural services relating to public art and Wollongong Art Gallery:

- Animating Wollongong Public Art Strategy 2022-2032 will continue to influence the future delivery of the Public Art Program.
- The program will also be impacted by various Council major projects and ongoing maintenance of existing public art works.





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- The Gallery is committed to providing an important cultural service to community and is actively engaged in shaping its program to better serve the evolving demographics of the region.
- 'Framing Our Future' Wollongong Art Gallery Strategic Plan 2020 2025 guides the strategic direction of the Wollongong Art Gallery.

There are currently 22 memorials on public open space across the Wollongong local government area. The history and management arrangements for these memorials is not currently well defined. This can lead to issues when artifacts degrade over time and require action to repair or restore the item. It is recommended that a policy and strategy that addresses memorials on public land be considered to provide greater direction and guidance on this group of assets.

12.14.3 Asset Snapshot

Asset Register - Office/Other Assets & Assets (Memorials only)

Valuation - The Heritage Collections was revalued in 2023

Valuation Information: – These assets are recognised at depreciated historical cost as an acceptable substitute for fair value because any difference between fair value and depreciated historical cost is unlikely to be material.

Row Labels	Financial Reporting Group	Count of Asset	Average of Useful Life (Years)	Sum of Current Asset Cost	Sum of Current Annual Depreciation as at 30 June 2024	Sum of Carrying Value
Antiques	Heritage Collections / Other	101	801	469,620	0	469,620
Artworks	Heritage Collections / Other	3284	831	16,896,238	30,736	16,420,354
Memorials	Other Open Space/Recreational Assets	22		225,030	4,501	211,909
Public Art	Heritage Collections / Other	10	16	602,320	12,931	494,930
Grand Total				18,193,208	48,168	17,596,813

12.14.3.1 Components and attributes

Assets are currently recorded as single asset with a description of the piece, artist name and other information where known.

12.14.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 9.1.5. A review of the artworks and antiquities identified that it is not a critical service, and consequently, does not have critical assets.

Whilst the service did not meet the criteria for critical service, it is noted that assets under this category are typically unique pieces and warrant appropriate management to mitigate risk of damage and/or loss.



12.14.3.3 Operation and maintenance requirements

The collection requires a range of activities to monitor condition of assets including:

- · routine inspections
- · scheduled maintenance and cleaning
- humidity control
- mould/microbial removal
- Selective application of anti-graffiti coating for public art

12.14.3.4 Depreciation and degradation curves

Artworks and antiquities are non-depreciable assets. Memorials and public art use a straight-line depreciation and degradation curves.

12.14.4 Roles and responsibilities

Service Manager: Manager Community Culture and Engagement

Role	Function	Responsibility	Activities
	Service Planning	Manager Community Culture and Engagement	Ensure service linkage to CSP Define service needs Determine service hierarchy Analyse capacity and demand Summarise service-related legislative requirements Establish customer levels of service Determine service requirements
Service Management	Service Operations	Manager Community Culture and Engagement	Act as customer liaison for service Provide website information and communications Initiate notifications for service interruptions Undertake functional assessment Monitor and manage service utilisation
	Asset Acquisitions and Disposals	Manager Community Culture and Engagement	Develop plan for acquisitions and disposals of assets aligned to service plan and demand forecast Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service Arrange establishment or termination of agreements (utilities)
Asset management	Asset Planning	Manager Community Culture and Engagement	Complete condition and performance assessment Assess asset related legislative requirements Coordinate scope preparation

Asset Management Plan



		Manager Infrastructure Strategy and Planning (ISP) (Monuments and Memorials)	Asset review Renewal planning
	Asset Data	Manager Community Culture and Engagement Manager ISP (Monuments and Memorials)	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
	Asset Financials	Manager Community Culture and Engagement Manager ISP(Monuments and Memorials)	Revaluation Unit rates Estimates Monitor expenditure
	Project Sponsor	Manager Community Culture and Engagement	Approval of project plan Oversee business proposal Capital expenditure review (OLG)
	Asset Concept	Manager Community Culture and Engagement	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
	Program Management	Manager Community Culture and Engagement	Oversee project as part of program Responsible for managing overall program costs, risks, progress
Project Delivery	Asset Design	Manager Community Culture and Engagement	Ensure alignment with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process
	Asset Delivery	Manager Community Culture and Engagement	Cost estimate Value engineering Procurement strategy Contract management Procurement Project management Oversee project commissioning and handover
Maintenance and Operation Management	Asset Maintenance	Manager Community Culture and Engagement Manager ISP (Monuments and Memorials)	Complete maintenance inspections Work management and scheduling Establish maintenance procedures Undertake maintenance works
	Asset Operations	Manager Community Culture and Engagement	Catalogue



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12.14.6 Performance

Council's most recent Community Satisfaction Survey shows a high level of utilisation and satisfaction with the provision of the Wollongong Art Gallery with a summary of the utilisation of the facility included in the survey is shown below:

FACILITIES	2010	2012	2014	2017	2019	2021	2023	SIGNIFICANT CHANGE SINCE 2021
Wollongong Art Gallery	3.9	4.0	4.2	4.2	4.1	4.2	4.1	

The community survey also indicated a consistent utilisation of the facility over a few years, as indicated in the summary below:

FACILITY USAGE RATE	2017	2019	2021	2023	CHANGE SINCE 2021
Wollongong Art Gallery	20%	15%	24%	25%	+1

We do not currently monitor community satisfaction with the other services and asset types included in this asset grouping.

12.14.6.1 Legislative Requirements

The legislative requirements associated with these assets includes:

- Copyright Act 1968
- Heritage Act 1977

12.14.6.2 Acquisitions, Upgrade and Decommissioning Plans

A review of our approach to the management of public art is currently underway. This work will review our approach to acquisition and decommissioning of public art. There are no formal plans for major acquisitions, upgrades, or decommissioning of the collection.



12.14.7 Future investments – Artworks, Antiquities and Memorials

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Scheduled and reactive maintenance	54,028	55,649	57,318	59,038	60,809	62,633	64,512	66,448	68,441	70,494	72,609
Depreciation	48,168	48,442	48,724	49,015	49,314	49,579	49,844	50,108	50,373	50,638	50,903
Required maintenance and operational works	155,759	155,759	155,759	155,759	155,759	155,759	155,759	155,759	155,759	155,759	155,759
Operating expenditure	102,196	104,091	106,042	108,053	110,123	112,212	114,356	116,556	118,814	121,132	123,511
Renewal works	103,500	106,600	109,800	113,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Upgrade works	-	-	-	-	-	-	-	-	-	-	-
Expansion works	-	-	-	-	-	-	-	-	-	-	-
New works	-	-	-	-	-	-	-	-	-	-	-
Capital expenditure	103,500	106,600	109,800	113,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Totals	205,696	210,691	215,842	221,053	210,123	212,212	214,356	216,556	218,814	221,132	223,511
Renewal and upgrade as a % of depreciation	215%	220%	225%	231%	203%	202%	201%	200%	199%	197%	196%



12.14.8 Artworks, Antiquities and Memorials Asset Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
14.1	Asset register	Review the operational and corporate asset registers to validate data	MCC&E	2025
14.2	Mapping of Public Art	Continue with the current program of mapping public art installations. Consider linking through to public maps.	MCC&E	2025
14.3	Memorials	Prepare a policy and strategy to provide direction and guidance on the provision and future management of existing and proposed memorials on public land. Identify key stakeholder groups for memorials and clarify the ownership and management arrangements.	MCC&E, MCO+P, MISP	2026
14.4	Required maintenance	Develop a program of required maintenance to support the asset grouping	MCC&E	2025
14.5	Renewal	Review the requirement for renewal investment for the asset group.	MCC&E	2026
14.6	Level of Service	Develop Level of Service indicators and target performance for asset group	MCC&E	2030



12.15 Waste Management

The waste management plan documents the strategic context and service provision to manage and reduce waste going to landfill through prevention, education and the use of innovative practises and technologies.

This is provided through delivering high quality, value for money, customer focused municipal waste services to the Wollongong community in the form of waste facilities and collection services. The service includes community education programs, waste collection and recycling, operation of the Wollongong Waste and Resource Recovery Park, and public domain waste collection. Domestic waste collection, recycling, on-call household clean-up and organics collection contracts. We also provide education activities for the community on Council's services and environmentally focused values.

A significant part of this service includes the operation of Wollongong Waste and Resource Recovery Park at Kembla Grange and management of former landfill sites.

12.15.1 Profile

Community Strategic Plan Goal: Goal 1: We are a sustainable and climate resilient city

Service: Waste Management

Our current global rate of consumption of non-renewable resources is not sustainable and it's crucial that we look at alternatives to non-renewable resources and enhance our efficiency managing and recovering existing resources. We need to do this in a way that minimises environmental impacts and maximises the value of recovered materials to ensure we are caring for country and protecting our environment.

The assets in this section of the plan are primarily to support the resource recovery and landfill operations at Whyte Gully. These assets provide waste disposal and resource recovery services to the Wollongong community whilst incorporating best practice environmental management, operations, facilities and techniques. A provision is also included for Whytes Gully for the estimated cost to remediate the site at the end of the waste and resource recovery park useful life.

The facility accepts and processes municipal and commercial solid waste produced within the Local Government Area. Environmental controls are implemented to meet and exceed compliance with the sites Environment Protection Licence, Development Consent and Environmental Management Plan including lined landfill cells, leachate management and control, and a rigorous environmental monitoring regime. This facility includes operation of inbound and outbound weighbridges, a reuse and revolve facility, a small vehicle transfer station, a recycling centre and garden organics processing area. A Community Recycling Centre oversees the diversion of recyclable materials including steel, paper and cardboard, timber from the transfer station.

This section of the plan does not include the buildings and sealed internal road networks at Whytes Gully – these are listed in the respective sections of the plan.

12.15.2 Strategic priorities

Waste management is guided by the Wollongong Waste and Resource Recovery Strategy 2024-2034 which identifies the following four goals:

- 1. Reduce Waste to Landfill
- 2. Transition to a Circular Economy
- 3. Reduce our Waste Related Emissions
- 4. Improve our Waste Management







Table 12.15.2 below summarises the actions from the strategy relating to waste management assets:

Table 12.15.2 - Supporting Document Actions

	Table 12.13.2 – Supporting Document	, totalene			
Strategy Reference	Action	Infrastructure Impact			
1.2	Investigate technologies and partnerships for increased diversion of waste - Continue to seek partnerships and explore the market for emerging technology to increase waste diversion	Impacts will be dependent on outcomes of the investigations.			
1.4.2	Investigate options to implement soft plastic collection through the domestic recycling collection service				
1.5.1	Design and construct a new transfer station area that allows for greater source separation and diversion				
1.5.2	Explore an alternate transfer station in the northern part of the city to assist with source separation	These actions require a review of the			
2.2.1	Increase the number of accepted materials at the CRC, including polystyrene, textiles and other household items with end markets	site masterplan to identify space to accommodate the service. The outcomes of the review may require capital investment for the			
2.2.2	Investigate the introduction of a circular economy repair/repurposing hub within the CRC	modification or expansion of existing facilities, or potentially the provision of new facilities to support the service. This is not currently included in the plan and will require a business plan and life cycle costing to demonstrate			
2.2.3	Invest in key infrastructure and partnerships within the CRC to improve functionality and appeal to the community				
2.4.2	Continue to pursue recycling solutions for problem waste, e.g. textiles, vapes, solar panels, nappies and polystyrene	the benefits.			
3.1.1	Review the master plan for the WWARRP to maximise the utilisation of Council's waste assets				
3.2.1	Consider increased screening options and future recycling opportunities to increase diversion at the WWARRP				
3.2.3	Trial available emerging technologies to reduce waste to landfill and collection emissions	These actions may require projects			
3.3.1	Continue to expand gas capture infrastructure as practically possible	to be considered in addition to the current 10-year plan, depending on outcomes of business proposals for			
3.3.2	Develop future cell design with consideration for maximum gas capture efficiency	the options.			
4.2.1	Effectively rehabilitate the former Helensburgh Waste Disposal site	Rehabilitation works at Helensburgh are included in the 10-year plan.			



4.5.1	Explore innovative waste processing technologies, e.g., alternative waste treatment systems and waste to energy	A review of the capital investment plan may be required in response to emerging technology that presents opportunities to enhance efficiency and environmental outcomes.
4.6.1	Continued improvement of our leachate management	Dusing the area in shaded in the 40 years
4.6.2	Continued improvement of our stormwater management	Projects are included in the 10-year plan to fund capital improvements to contribute to these actions.
4.6.3	Continued improvement of capping of landfill areas	

12.15.2.1 Future Impacts

The following future impacts were identified in the delivery stream report for Waste Management. The strategic response as it relates to waste management assets, and the consequences of not funding the impact is summarised below in Table 12.15.2.1.

Table 12.15.2.1 – Future Impacts on Waste Management Assets

Future Impacts	Strategic Response	Consequences of Not Funding
Alternative waste technologies which minimise percentage of waste material to landfill.	Innovation in the waste and resource recovery sector will drive the need to be agile in response to emerging technology that presents opportunities to enhance efficiency and environmental outcomes. This may result in a need to review the capital investment plan as technologies enable us to meet the objectives of our Community Strategic Plan and Waste and Resource Recovery Strategy.	Not pursuing innovative technology to minimise the percentage of waste to landfill will result in a faster rate of cell utilisation. This results in the need for significant investment in additional cell creation and reduces the life of the Whytes Gully park site.
Continued focus on maximising organics diversion from landfill via the FOGO service.	The reduction of food organics garden organics in landfill has several environmental, operational and financial benefits including recycling, reducing the rate of land fill utilisation, and reducing odour and future gas generation in landfill.	Whilst FOGO has been rolled out, investment is required to maintain the service, including on-going education and performance monitoring. Failure to fund these aspects is likely to lead to contamination of FOGO and inability to recycle the material. This leads to increasing diversion of material to landfill.



Rehabilitation of Helensburgh Waste Disposal Depot	Council has a commitment and responsibility to remediate and manage former landfill operations.	Not funding the required remediation may result in regulatory non-compliance.
Power generation as a result of landfill gas extraction is a priority in meeting Council's net zero emissions targets.	Landfill gas, resulting from the decomposition of waste, was identified as generating 85% of the total emissions from Council's operations in the Sustainable Wollongong 2030 – A Climate Healthy City Strategy. Capture, cleaning and reuse of the gas for generation of power will reduce the volume of emissions.	Council will not achieve targets for the reduction in emissions if treatment of landfill gas is not funded.
Environmental compliance particularly with the rapid urban expansion at Kembla Grange, and the ability to safely operate during ever increasing extreme weather event	Increased urbanisation and growth in the vicinity of the Whytes Gully facility places a greater need to meet the environmental standards for operating the facility, particularly for dust, noise and odour control.	Not adequately investing in mitigation measures for environmental impacts may lead to increased community complaint and potential regulatory sanctions.

12.15.2.2 Future Demand

The Local Strategic Planning Statement identifies the likely changes to our community in the future and the implications of population context. These implications will create changes in demand that influences our planning associated with waste management, as summarised below in Table 12.15.2.2:

Table 12.15.2.2 – Future Demand for Waste Management Infrastructure

Demand Drivers	Demand Forecast	Demand impact on assets	Demand management plan	Asset programs to manage demand
Population growth – and urban densification	Wollongong LGA growth by 55,000. During the next 20 years, several of Areas will evolve from 'sub district' sized populations of less than 30,000 people to areas hosting 'district' level populations of	The growth will place additional pressure on the provision and management of waste and resource recovery. Increased density will create additional demand and capacity issues for	The main area of growth in Wollongong is situated in West Dapto. The Wollongong Waste and Resource Recovery Strategy recognises the forecast growth and the need to support a more sustainable	Community recycling centre, community recycling stations, waste education, FOGO bins, recycling bin



more than 30,000	existing waste	approach to the	
people.	infrastructure.	management of	
Increased residential density in some of the district hubs within the LGA.		waste.	

12.15.3 Asset Snapshot

Asset Register - Assets

Financial Reporting Group: Other; Plant and Equipment; Tip Remediation Assets

Last comprehensive revaluation: 30/06/2021

Valuation Information: – Other Assets includes Waste Assets such as Cell Development and Liners. Valuation Technique - Other Assets are recognised using the cost method.

Tip Remediation Asset Valuation Technique – Council's Tip Remediation Asset is measured using the cost method.

Fair Value Hierarchy – Whytes Gully Waste Disposal Depot will require remediation, and restoration works to be carried out during and at the end of its useful life. The cash outflows relating to these remediation and restoration works have been modelled and recognised as an asset in Note C1-8 of Council's statements. Key unobservable inputs were the discount rate, cost escalation rate, timing of costs and future environmental management requirements. As such the level of valuation input for Council's tip asset was considered Level 3.

The tip remediation asset was adjusted in line with changes to the remediation provision. During 2019-2020, the remediation provision was reduced to by an amount greater than the carrying value of the tip remediation and as a result this asset now has a carrying value of zero.

Financial	Qty	Av Useful Life	Carrying Value	Annual Depreciation	Current Asset Cost
Reporting Group	٦.,	(Years)	(\$) @ 30 June 2024		
Other	43	22	33,555,640	1,241,002	48,101,688
Plant and Equipment	4	16	1,259	1,737	141,671
Waste Remediation Assets	1	62	8,176,293	199,422	17,586,571
Grand Total			41,733,192	1,442,161	65,829,930

12.15.3.1 Components and attributes

Waste management assets have a single level asset classification structure, which each asset identified by number and description.



12.15.3.2 Risks and criticality

Critical services are defined as those which have a high consequence of failure causing significant loss or reduction of service to the community as outlined in Section 9.1.5.2. A review of the Waste Service identified that it is a critical service, with waste facility assets identified as critical assets.

12.15.3.3 Operation and maintenance requirements

Routine inspections and maintenance actions are required to keep the waste assets functional and to ensure they remain serviceable to meet the expected useful life, including those listed below:

- · routine inspections
- water sampling
- compaction
- spreading
- dust control
- · weighbridge servicing and calibration
- lifting equipment
- filtration
- · gas collection

Depreciation and degradation curves

Waste assets use a straight-line depreciation and a straight-line degradation profile.

12.15.4 Roles and responsibilities

Service Manager: Manager Open Space and Environmental Services

Role	Lifecycle	Function	Responsibility	Activities
				Ensure service linkage to CSP
				Define service needs
			Manager Open	Determine service hierarchy
		Service	Space and	Analyse capacity and demand
	Planning	Planning	Environmental Services	Summarise service-related legislative requirements
			(MOS&ES)	Establish customer levels of service
O a mail a a				Determine asset requirements for service delivery
Service Management	Operation	Service Operations	MOS&ES	Act as customer liaison for service
				Provide website information and communications
				Initiate notifications for service interruptions
				Undertake functional assessment
				Monitor and manage service and asset utilisation
	Planning and End of Life	Asset Acquisitions	MOS&ES	Develop a plan for acquisitions and disposals of assets aligned to service plan and demand forecast



		and Disposals		Engage with stakeholder on acquisition and disposal plan Arrange relocation or transition of service Arrange establishment or termination of agreements (utilities)
		Asset Planning	MOS&ES	Complete condition and performance assessment Assess asset related legislative requirements Coordinate scope preparation Asset review Renewal planning
Asset management	Planning	Asset Data	MOS&ES	Administration of asset register Updates for capital improvements Initiate asset disposal system process Prepare asset management plan Coordinate asset reporting data
		Asset Financials	MOS&ES	Revaluation Unit rates Estimates Monitor expenditure
		Project Sponsor	Director Infrastructure + Works	Approval of project plan Oversee business proposal Capital expenditure review (OLG)
		Asset Concept	MOS&ES	Define the problem/need Options assessment Feasibility Lifecycle costing Funding strategy Business case/proposal
		Program Management	MOS&ES	Oversee project as part of program Responsible for managing overall program costs, risks, progress
Project Delivery	Delivery	Asset Design	Manager Project Delivery	Ensure design solutions align with strategy Options analysis Concepts Design development Cost estimating Complete safety in design report Approvals process
		Asset Delivery	Manager Project Delivery	Cost estimate Value engineering Procurement strategy Contract management Procurement Project management



				Oversee project commissioning and handover
Maintenance and Operation	Maintenance	Asset Maintenance	MOS&ES	Complete maintenance inspections Work management triage and scheduling Establish maintenance procedures Undertake maintenance works
Management	Operation	Asset Operations	MOS&ES	Weighbridge Facility operations

12.15.5 Performance

We monitor the performance of our waste assets by:

Condition - the actual physical and technical state of the asset.

Functionality – the ability of the collection to meet service needs including social, environmental, and economic performance.

Capacity - the ability of the collection to meet demand.

By undertaking regular assessments, we determine which assets meet our levels of service and which require capital intervention – renewal, upgrade, or expansion – to meet service level thresholds.

12.15.5.1 Community Satisfaction Survey

Council's most recent Community Satisfaction Survey includes results relating to waste management as part of the direct services questions. The results of the community survey indicate a high satisfaction with the services related to waste management, with the top four of the eighteen overall services provided by council relating to waste management. The results are also indicating a consistency in the rating over time. The services are linked to the waste management assets, in that the assets at Whytes Gully park are required to support the circular economy of waste management and resource recovery. The indicator most directly aligned to the assets is the *Waste disposal depot facilities*.

Table 12.15.5.1 below provides a summary of community satisfaction with the direct services relating to waste management:

Table 12.15.5.1 - Community Satisfaction Survey

DIRECT SERVICES	2010	2012	2014	2017	2019	2021	2023	CHANGE SINCE 2021
Green waste, including the food organics collection service (FOGO)	-	-	1	-		4.5	4.4	\$
Domestic waste collection service (i.e., red bin)	4.1	4.2	4.2	4.0	4.1	4.4	4.4	⇔
Recycling waste collection service	-	-	-	-	-	4.3	4.3	⇔
Waste disposal depot facilities	3.4	3.4	3.4	3.6	3.7	4.0	3.8	⇔
Public bin collection	-	-	-	-	-	3.9	4.0	⇔



12.15.5.2 Criteria for levels of service

Key Performance Measure	Level of Service	Performance Measures / Indicators	Performance Target	Current Performance
Customer Leve	els of Service			
Safety	Waste facility assets are safe for use	Number of claims alleging injury or damage associated with condition of assets	Assets condition not found to have contributed injury or damage.	
Function	Waste assets are fit for purpose	No restrictions that unreasonably limit usability of the waste facility	Down time of waste facility from service less than 5% of available hours	
Serviceability	Waste assets are available for use	Assets in serviceable condition.	No assets unserviceable, except those identified for decommissioning	
Utilisation	Waste facility is being utilised by the community			
Satisfaction	The community is satisfied with the services provided by Council supported by this asset group	Community survey for direct services - Waste disposal depot facilities	No significant decrease in average satisfaction results to previous survey	The results for 2023 indicated a minor decrease from 2021, from 4.0 to 3.8. This is still on target. Target achieved ©
Technical Leve	ls of Service			
Condition	Level 1 condition assessment	Annual	75% compliance	
Inspection	Level 2 condition assessment	4-yearly	75% compliance	
Amenity Management	Odour Control	offensive odour impacts must not occur at off-site locations	The assessment should be prepared in accordance with the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (NSW DEC, 2005) and Assessment and Management of Odour from Stationary Sources in New South Wales: Technical	



Fire prevention	the risk of fire at the site must be minimised and the site must be adequately prepared in	that leaves the site as soon as practicable Landfill staff should be trained in fire-prevention and fire-fighting techniques.	
Litter and debris control	local amenity must not be degraded by litter from the landfill or by mud or litter attached to vehicles leaving the landfill	 apply daily cover to the waste and continuously compact the waste install litter fences and inspect and clear litter from all fencing daily, or as required retrieve all litter 	
Noise Control	excessive noise must not be generated by activities at the site	noise monitoring should be conducted in response to complaints.	
Dust Control	emission of nuisance dust and other particulate matter beyond the landfill boundaries must be minimised	The assessment should be prepared in accordance with the Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales (NSW DEC, 2005). The assessment should demonstrate that cumulative off-site levels of deposited dust, particulate matter as PM10, and total suspended particulates will comply with the impact assessment criteria given in Table 7.1 of Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales.	
		Framework and Technical Notes (NSW DEC, 2006b)	



Water quality maintenance	Detect any pollution of off- site surface water and groundwater	ensure that appropriate sampling and analysis methods are used in accordance with Approved Methods for the Sampling and Analysis of Water Pollutants in NSW (NSW DEC, 2004a) and other recognised guidelines for matters not covered by the Approved Methods		
Leachate management	Leachate barrier installed and maintained	Pollutants with the potential to degrade the quality of groundwater must not migrate through the strata to any point beyond the boundary of the premises or beyond 150 metres from the landfill footprint, whichever is smaller		
	Leachate storage and disposal	Collected leachate must be stored in appropriately sized dams or tanks and disposed of so as not to cause environmental harm.		
Gas management	Minimise emissions of untreated landfill gas to air and through sub- surface strata and services			
Landfill licence	Council holds the appropriate licence to operate a landfill	Licence is current and the operation is in accordance with the licence.	Current licence and 100% compliance with requirements	
Weighbridge functionality	Weighbridge accurately measures the material entering the facility	Weighbridge calibrated	100% compliance	
Risk	Waste assets are maintained within a tolerable risk profile.	Risk assessment of assets to be undertaken.	All waste management assets managed in accordance with the infrastructure risk appetite statement	



12.15.5.3 Asset Resilience

The natural and non-natural hazard exposure categories for the City of Wollongong are identified through the Local Emergency Management Committee. The hazards identified as part of the Local Emergency Risk Management Study, that may impact waste infrastructure are summarised below:

Hazard	Risk Description	Likelihood	Conseque nce	Risk
Earthquake	Earthquake of significant strength (> Magnitude 7) that results in localised or widespread damage.	Rare	Major	High
Landslip / Mudflow / Rockfall	Landslip/mudflow/rockfall resulting in localised or widespread damage.	Likely	Moderate	High
Severe Storm	Severe storm with accompanying lightning, hail, damaging winds, and/or rain that cause severe damage and/or localised flooding.	Likely	Major	Extreme

The local emergency management plan covers the preparedness and response plans for the events listed above. Post incident, Council will instigate the appropriate inspection program to review any waste infrastructure impacted by the event.

The key climate hazards identified through the Climate Change Adaptation Plan (CCAP) as most relevant to waste assets are bushfires and storms. A summary of the actions from the CCAP and relation to pools is provide below.

Priority Actions							
Hazard	Climate Change Adaptation Plan Action	Action					
Bushfire	Proactively maintain fire trails and other bushfire related infrastructure to be fire ready e.g. hazard reduction.	Maintain the asset protection zones at Whytes Gully.					
Storms	Identify Council's business continuity plans (BCPs) and review and updated as required to address increase the likelihood of storm and extreme weather events.	BCPs may identify critical services and associated assets. Any changes to critical assets will be listed in revisions of the asset management plan, and appropriate management plans developed.					



12.15.5.4 Legislative Requirements

- Protection of the Environment Operations Act 1997
- Protection of the Environment Operations (Waste) Regulation 2014
- The Public Health Act 2010 and Public Health Regulation 2022
- Environmental Planning & Assessment Act 1979
- National Parks and Wildlife Act 1974
- Threatened Species Conservation Act 1995
- Native Vegetation Act 2003
- Contaminated Land Management Act 1997

12.15.6 Future Investments

12.15.6.1 New, Upgrade and Renewal Plans

The provision of additional waste cells and associated infrastructure is required to maintain capacity to cater for ongoing demand. We monitor utilisation and demand through a model that analyses rates of fill and forecast demand. This model is used to monitor the life of the cell, which we use to forecast future asset requirements.

Our 10-year Outlook – Waste Management Assets section below identifies the new, upgrade and renewal works planned over the next 10 years. New works includes cell construction, access roads, stormwater diversion, capping and sewer upgrades.

The former Helensburgh landfill will be the subject of significant planned upgrade in addition to major renewal works at Greenhouse Park to continue with rehabilitation of these sites. Minor renewal works are planned at Whytes Gully on drainage systems.

A more detailed assessment of the waste asset portfolio is recommended to develop a more comprehensive investment plan for future versions of this plan.

12.15.6.2 Decommissioning and Disposal Planning

There are no current plans for decommissioning and disposal of waste assets.



12.15.6.3 Future investment plan – Waste Management

Item	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Depreciation	1,442,161	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,442,161
Operating expenditure	1,442,161	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,716,551	1,442,161
Renewal works	325,000	260,000	500,000	575,000	5,850,000	1					325,000
Upgrade works	125,000	300,000	6,590,000	10,760,000	7,620,000	15,900,663	9,602,737	9,541,556	459,525	176,292	125,000
Expansion works	-	-	-	-	-	-	-	-	-	-	-
New works	12,525,000	3,450,000	400,000	350,000	10,500,000	-	-	-	-	-	12,525,000
Capital expenditure	12,975,000	4,010,000	7,490,000	11,685,000	23,970,000	15,900,663	9,602,737	9,541,556	459,525	176,292	12,975,000
Totals	14,417,161	5,726,551	9,206,551	13,401,551	25,686,551	17,617,214	11,319,288	11,258,107	2,176,076	1,892,843	14,417,161
Renewal and upgrade as a % of depreciation	31%	33%	29%	33%	341%	0%	0%	0%	0%	0%	31%



12.15.7 Waste Management Infrastructure Improvement Program

The following opportunities have been identified through the preparation of this asset management plan that will assist in improving future asset management planning outcomes:

Item	Issue	Description	Responsible	Timing
15.1	Asset Register Structure	The current asset register structure is flat, with only one level of classification. A review is recommended to ensure the current data structure remains fit for purpose prior to undertaking a full class revaluation.	MOS&ES	2026
15.2	Data Dictionary	To support the structure of the asset register, prepare a data dictionary to provide guidance and consistency in classification, description, and attributes.	MOS&ES	2026
15.3	Review condition, remaining useful life and valuation	At the completion of the asset register review, the condition and remaining useful life of assets should be determined. Due to the specialist nature of landfill operations, it is recommended that a detailed assessment be undertaken. A full class valuation should be undertaken on the revised asset register, with consideration of the condition and remaining useful life.	MOS&ES	2026
15.4	Renewal requirements	Determine the requirement for renewal of waste related infrastructure. Some assets are temporary and are decommissioned at end of life.	MOS&ES	2026



Infrastructure Asset Management Improvement Plan

13 Infrastructure Asset Management Improvement Plan

An improvement plan specific to each group of assets has been provided at the end of each plan. In addition to these actions, there are improvements that apply globally or to asset management practices. The following table summarises these actions to continue a path of asset management maturity.

Item	Issue	Description	Responsible	Timing
16.1	Condition profile	Develop a target distribution of condition per asset class that informs technical levels of service. This desirable distribution of condition will enable performance monitoring of investment and interventions plans.	MISP	2028
16.2	Asset Management Plans	Document Asset Management Plans for the following asset types, including outputs and financial impacts, from service plans Waste management assets Marine assets Office equipment Cemeteries	MISP	2027
16.3	Maintenance and operating costs	Develop and document maintenance and operational costs for asset categories to form part of future plans. This will define, quantify, and document current technical levels of service, and costs of providing the current levels of service		2026
16.4	Supporting documents	Prepare a template for supporting documents that includes an assessment of the impact on asset demand. Provide a lifecycle cost assessment on any proposals for new / expanded assets.	CFO (template) Service Manager (lifecycle cost)	2025
16.5	Resource Plan	Align and integrate plan with long-term financial plan, workforce, and IM&T plan	MISP, CFO, MP+C	2025
16.6	Capital Works	Establish and implement an end-to-end process for capital works planning that aligns with community strategic goals, asset management principles and supporting documents for optimal investment in capital works. This will cover handover processes and checklists for deliverables, project capitalisation guidelines, project governance, in consistent formats providing for financial recognition of assets and stakeholder engagement on initial project scoping.	MISP, MPD, CFO, MCW	2025
16.7	Project Evaluation Model	Develop a project evaluation model for capital works aligned to the Community Strategic Plan goals, and risk appetite statement. Evaluation process should include consideration of asset lifecycle costs and funding strategy. Appropriate governance structures	CFO, MISP	2026



Infrastructure Asset Management Improvement Plan

		should be established to provide oversight to process application.			
16.8	Service Levels	Confirm levels of service as part of reviews of supporting documents through community consultation process.	Service managers	2028	
16.9	Enterprise Asset Management System	Continue asset management information systems development to capture lifecycle cost information, maintenance, and operational activities associated with assets.	2026		
16.10	Asset Recognition	Embed the Project Management Framework to ensure that the required asset management data is collected from project inception to completion of capital works and recorded in the Asset Management and GIS systems.	MPD, MISP, MCW	2025	
16.11	Project Lifecycle Management	Continue project lifecycle management development to ensure integration with asset management systems.	CD+IO, MISP, MPD	2025	
16.12	Education	Prepare and implement an internal education program to increase organisational awareness and capability of asset management.	MISP	2026	
16.13	Resourcing	Ensure appropriate resourcing is allocated to continue implementation of the actions in the improvement plan.	All Managers	2025	
16.14	Delivery plan	The timing of works delivery for West Dapto is forecast to grow significantly in the following 10-year period between 2036-2045. This will create challenges for resourcing the program, from internal workforce to contractors to undertake the works. This should be considered in the review of the Workforce Plan.	MP+C	2025	
16.15	2023/24 Results	This first draft of the asset plan was prepared prior to the finalisation of the results for the 2023/24 Financial Year. The final version should be amended to include the results of the 2023/24 Year.	MISP	2024	
16.16	2023/24 Revaluations	The asset plan was prepared in parallel with revaluations on several asset classes, including buildings, other structures, artworks, and antiquities. The valuations had not been finalised at the time of publishing the first draft of this asset plan. The final version of the plan should be amended to incorporate the revised asset valuations.	MISP	2024	
16.17	2024/25- 2027/28 IDP	This plan was prepared using the public exhibition version of the Infrastructure Delivery Program (IDP) 2024-2028. The final version of the IDP is likely to be amended prior to adoption to reflect feedback from the community. The final version of this plan is to be amended to reflect the adopted version of the IDP.			



Infrastructure Asset Management Improvement Plan

16.18	2027/28 Year	Review the capacity to bring forward works from proceeding years to help smooth workflow.	MISP, MPD	2025
16.19	Annual register validation	Develop and implement an annual review of the asset register to ensure registers are complete and accurate. Annual activities include review of works in progress to ensure commissioned works are capitalised; review of assets disposed within the year; review of assets created in the year; verification of contributed assets; regular check-in with Maintenance Managers to identify any assets removed from service due to damage/failure.	Asset Managers	2025
16.20	Asset groupings	Review current infrastructure asset register to consider grouping similar assets across current structure (eg retaining walls, furniture, lighting)	MISP	2025
16.21	Utilisation	Consider procurement of third-party utilisation monitoring data to inform decision making on a range of asset types.	MISP	2026





14.1 Appendix A: Asset Management Policy



ADOPTED BY COUNCIL: [TO BE COMPLETED BY GOVERNANCE]

PURPOSE

Council is the custodian of community and corporate assets worth over \$7B. The value and number of assets will change in response to service demand and population growth. This Policy outlines the responsibilities and accountabilities for the sustainable and coordinated management of existing and new assets.

POLICY INTENT

The intent of this Asset Management Policy is to:

- · Outline why asset management is important through defining asset management principles.
- Establish a strategic asset management framework.
- Define the key roles and responsibilities for asset management; and
- Promote sustainability and support inter-generational equity.

OUR WOLLONGONG OUR FUTURE 2035 GOALS AND OBJECTIVES

The Community Strategic Plan (CSP), Our Wollongong Our Future 2035, outlines goals and objectives to achieve the vision for Wollongong. The CSP identifies Council's services that will help us achieve our targets under each goal. Each of these services requires assets to support service delivery associated with the following four goals:

- Goal 1 We are a sustainable and climate resilient city
- Goal 2 We have well planned, connected and, liveable places
- Goal 3 We value culture and the arts, and foster an innovative and diverse economy
- Goal 4 We are a healthy, respectful and inclusive community

POLICY

For all assets under Council's control, we will:

- . Manage assets in accordance with the five asset management principles of this Policy.
- Implement the Strategic Asset Management Planning Framework for the management of assets.
- Comply with the Integrated Planning and Reporting mandatory requirements and essential elements for asset management planning.
- Account and plan for all assets under our control.
- Consider the possible effects of climate change on assets.
- Ensure resources are responsibly and sustainably allocated to implement effective asset management practices.

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- Develop and implement a continuous improvement plan.
- Implement a governance model for Council's asset management framework.

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DRAFT ASSET MANAGEMENT

COUNCIL POLICY

ASSET MANAGEMENT OBJECTIVES

Council will apply a strategic approach to asset management guided by the following five core objectives:

1 - Asset management is considered as a key element of our integrated planning

- The Community Strategic Plan sets the community vision.
- Asset management planning identifies assets and related resources required to deliver the community vision.
- Asset planning will consider relevant supporting documents.
- Asset Management Plans align with organisational priorities and the long-term financial plan.

2 - Assets provide value by supporting Council services

- Services are the main driver for assets.
- Asset management decisions consider the impact on the service supported by the asset.
- Asset planning is informed by service plans and supporting documents.
- Assets no longer required for a particular service will be considered for adaptive reuse, repurpose and/or recycling or disposal.

3 - Council is responsible in its control and management of assets on behalf of the community

- · Short, medium, and long-term plans consider current and future Wollongong generations.
- · Asset management roles and responsibilities are clearly defined and understood.
- Council officers have the appropriate training, knowledge, and skills to deliver their responsibilities.
- Continuous improvement forms part of asset planning.

4 - Asset management decisions are balanced

- Asset decisions will balance risk, cost, and service outcomes.
- . The enterprise risk management framework will be applied to the management of assets.
- · Council will comply with legislative and regulatory obligations.
- Asset management actions demonstrate alignment with value principles.

5 - Lifecycle management informs recommendations and decisions

- Assets provide service over the life of the asset from acquisition/delivery to decommissioning.
- Decisions will consider costs and impacts of operations, maintenance, renewal, upgrade, expansion, and disposal over the life of the asset for long-term financial sustainability.
- Non-asset solutions will be explored and considered as part of the decision-making process.
- Co-location of services and asset sharing will be considered for more efficient asset utilisation.
- High priority maintenance, operating and renewal expenditure is given preference to the creation or expansion of assets to accommodate increased service provision.

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DRAFT ASSET MANAGEMENT COUNCIL POLICY

STRATEGIC ASSET MANAGEMENT PLANNING FRAMEWORK

Council's Asset Management intent and principles are to be achieved through the implementation of the Strategic Asset Management Planning Framework as shown in Figure 1.

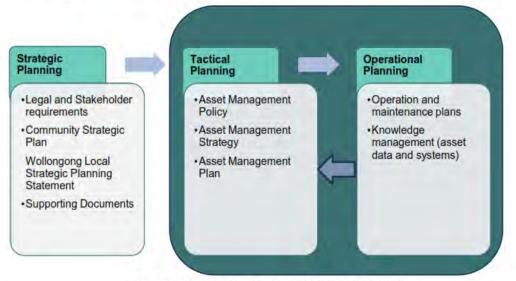


Figure 1: Strategic Asset Management Planning Framework

LEGISLATIVE REQUIREMENTS

Chapter 3 – Principles for Local Government of the Local Government Act 1993 applies to asset management and as specified in Sections 403 and 406 of the Act.

Specific legislation and standards that relate to each asset class are listed in the relevant Asset Management Plan.

REVIEW

This Policy will be reviewed a minimum of once every term of Council, or more frequently as required.

REPORTING

Information on assets is reported as part of the annual report and financial statements, in accordance with the Local Government Code of Accounting Practice and Financial Reporting, including condition assessment, renewal and maintenance expenditure.

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DRAFT ASSET MANAGEMENT

COUNCIL POLICY

ROLES AND RESPONSIBILITIES

Role	ole Responsibility					
Wollongong Community	Elect Councillors to represent and make decisions on behalf of the community (residents). Utilise assets responsibly. Participate in community engagement opportunities relating to assets. Set the vision for Wollongong through the Community Strategic Plan.	Resident, Business, & Community Stakeholders				
Asset Custodian	Set guiding principles for the Asset Management Policy. Act as custodians for community assets by ensuring that their decisions represent and reflect the needs of the wider community. Adopt Council's Resourcing Strategy including the Asset Management Policy, Strategy and Plan. Delegate authority to the General Manager to undertake required responsibilities. Provide sufficient resources to maintain community assets to agreed levels of service as outlined in this Policy.					
Executive Asset Governance	Championing asset management. Foster and support a multi-disciplinary asset management steering committee. Enable appropriate management arrangements, ownership, control, accountability, and reporting requirements. Review and monitor asset performance and asset management improvement actions. Delegate authority and accountability for implementation of this Policy. Ensure alignment of the Asset Management Policy with other policies and business processes of Council. Oversee compliance with Council's legal obligations.					
Asset Management Steering Committee	Oversight of major decisions and direction of Strategic Asset Management practice within Council. Monitor and review the implementation of Council's Asset Management System. Monitor and evaluate the progress of improvement actions set out in Council's control of the council o					
Service Management	Asset Management Plan. Develop and regularly review Service Plans which identify community levels of service and the associated asset requirements necessary to support service. Assess non-asset solutions to support service delivery. Monitor utilisation and identify opportunities for asset consolidation. Explore opportunities to share assets and co-locate services for more efficient					

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DRAFT ASSET MANAGEMENT

COUNCIL POLICY

Role	Responsibility				
	 Consider land use planning strategies and plans when assessing service demand, growth, density, land use and future needs assessment. Work with the Asset Managers to specify requirements for the delivery of works in asset management plans. 				
Project Delivery	 Ensure alignment of design solution to project objectives and requirements. Ensure designs achieve objectives in adopted strategies. Safe and sustainable delivery of projects identified and assigned in Council's Infrastructure Delivery Program to quality standards. Consideration of asset management principles in the design and delivery phase of the project delivery. Commissioning and handover of appropriate assets and related data. 	Refer to asset management plans			
Asset Management					
Develop and maintain whole of life costings. Develop and implement a system to manage effective and efficient maintenance practices. Apply the asset management principles in the delivery of maintenance services. Provide technical advice and support to Service and Asset Managers. Identify asset related impacts of statutory requirements relating to maintenance and operating service delivery.					
Information Technology Asset Management	Develop and maintain roadmap for Enterprise Asset Management (EAM) system. Embed and optimise enterprise resource platform. Review and enhance EAM business applications. Implement EAM Information Technology governance. Improve Information Technology Asset Management.	Chief Digital and Information Officer			
Lead long-term financial planning and collaborate to ensure integration with asset management plans. Lead the preparation of financial statements on assets.					

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DRAFT ASSET MANAGEMENT

COUNCIL POLICY

ole	Responsibility					
	Champion Asset Accounting Policy and Procedures to align with the requirements of the Australian Accounting Standards. Establish and monitor appropriate accounting controls to provide assurance					
	 Establish and monitor appropriate accounting controls to provide assurance over accounting records relevant to asset management. 					

RELATED POLICY AND PROCEDURES

- Asset Accounting Policy
- Risk Management Framework
- Financial Sustainability Policy
- Management of Community Halls, Community Centres, Senior Citizens Centres and Neighbourhood Centres
- Wollongong City-Wide Development Contributions Plan
- · West Dapto Development Contributions Plan

DEFINITIONS

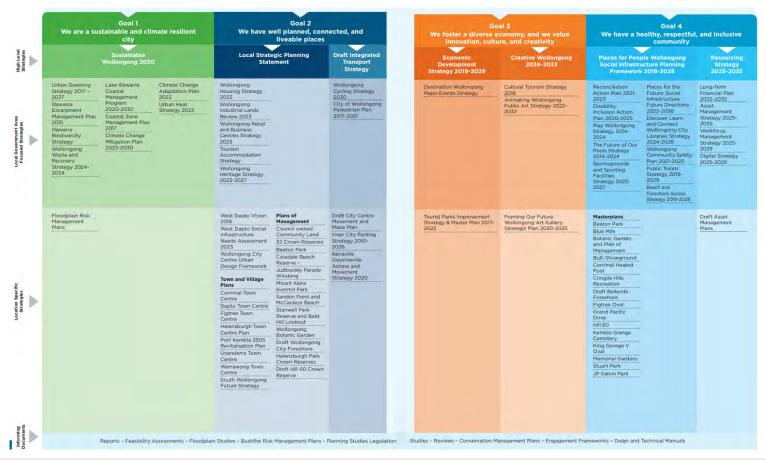
Term	Definition			
Asset	All non-financial assets recognised by the Council in accordance with the Australian Accounting Standards Board's Accounting Standards and Council's Asset Accounting Policy. Includes infrastructure, property, plant and equipment, Artwork and antiquity collections, library collections, and ICT systems.			
Asset Management	Systematic and coordinated activities and practices of an organisation to deliver on its objectives through cost-effective lifecycle management of assets.			
Asset Management Strategy	A high-level strategic plan that gives effect to this Policy.			
Asset Management Plan	Documented information that specifies the activities, resources or timescales required for an individual asset or grouping of assets, to achieve the organisation's assets management objectives.			
Whole of Life Cost	The total cost of an asset throughout its life including planning, design, construction, acquisition, operation, maintenance, rehabilitation, and disposal costs.			
Service	Activity as defined in the Delivery Program and undertaken to meet the needs of the community or the administrative support.			
Level of Service	Defines the asset performance targets in relation to reliability, quality, quantity, responsiveness, safety, capacity, environmental impact, acceptability, accessibility and cost.			

APPROVAL AND REVIEW				
Responsible Division Infrastructure Strategy and Planning				
Date/s adopted	Council xx 2025			
Date/s of previous adoptions	June 2022; June 2017; April 2014; June 2005			
Date of next review June 2028				

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14.2 Appendix B: Council Supporting Documents





14.3 Appendix C: Risk Appetite Statement

Below are the Risk appetites and tolerance levels determined for Wollongong City Council. Our risk appetites and our risk management framework support our decision making and ensures Council makes appropriate and informed decisions.





Risk	Context		Risk Appetite	Risk Tolerance Levels	
Category		Rating	Council will tolerate	Council will not tolerate	
Infrastructure	Council is committed to continuous improvement in order to provide excellent infrastructure services that provide benefits to our community. Council is open to taking moderate levels of risk to enhance our city's infrastructure.	Open	 Moderate financial and reputational impacts arising from the implementation of new of innovative technologies. Moderate impacts leading to short term disruption to community due to implementation of construction procedures which provide value for money provided community has been informed Moderate short-term fiscal impact on capital costs of projects where there are demonstrated long term sustainable gains. 	 Failure of third-party contractors to provide services within budget and agreed timeframes. Non-completion of a significant portion of new or renewal infrastructure projects beyond financial year (or scheduled completion period if project runs across multiple years). Significant delays to projects that are considered within Council control Asset failure significantly earlier than the projected lifespan of the asset Failure to administer and manage contracts appropriately 	
			 Moderate impacts to infrastructure due to implementation of new technology, innovation initiatives or projects. Unforeseen interruptions of up to 2 days to critical infrastructure from uncontrollable events where Council responds and communicates promptly to impacted stakeholders. Minor unforeseen and unavoidable cost variations in capital projects within the established contingency allocated to each project 	 Significant foreseeable variations in contract price due to aspects of the project within the control of Council Failure to escalate critical infrastructure damage or issue within 2 hours. Failure to develop plans to respond to a disruption and ensure continuity of operational infrastructure. Activities that result in reasonably foreseeable and preventable fatalities, harm, serious injuries or illnesses to our Community, Customers, Councillors or Employees. 	

Risk	Context	Risk	Risk Tolerance Levels		
Category		Appetite Rating	Council will tolerate	Council will not tolerate	
Service Delivery	Council delivers a range of community services, events and facilities which contribute to our city. Council is open to creativity and innovation and is willing to take some level of risk to deliver efficiencies, enhance capabilities and provide a service to be proud of to our community. Council is open to taking moderate risk to enhance service delivery.	Open	 Unforeseen interruptions of up to 2 days to critical business functions from uncontrollable events where Council responds and communicates promptly to impacted stakeholders. Unforeseen interruptions of up to 7 days to less critical business functions from uncontrollable events where Council responds and communicates promptly to impacted stakeholders. Moderate reputational impact from community complaints relating to service quality or new initiatives to deliver enduring benefits to our community. Moderate impacts to service delivery due to implementation of new technology, innovation initiatives or projects. Moderate impacts arising from innovations and ideas that contribute and encourage creating a flexible workforce. 	disruption and ensure continuity of critical	



Risk	Context	Risk Appetite Rating	Risk Tolerance Levels		
Category			Council will tolerate	Council will not tolerate	
Environmental	Council recognises the importance of conserving and enhancing our environment and understands that sustainability considerations in all council decisions is important. Council has a cautious appetite for environmental impacts arising from normal business activities, however, is open to innovative practices for the betterment of the environment.		 Environmental impacts offset by other activity resulting in a net environmental benefit. Minor environmental impacts from uncontrollable or unforeseen events or to deliver enduring benefits to our community well into the future. Changes to procedures and practices to accommodate improved environmental outcomes Minor cost impacts in the selection of products, services that have a significant positive impact on the environment 	 Decisions that do not appropriately consider the principles of ecologically sustainable development or the Council value of Sustainability. Failure to minimise significant impacts on biodiversity and reduce our ecological footprint. Decisions, activities, and practices that result in long term or irrevocable environmental damage or negative climate impacts, threatens biodiversity, including extinction of flora and fauna, or is hazardous to human life. Activities and practices that knowingly compromise the environment, are reasonably foreseeable and preventable. Failure to meet environmental commitments or legal requirements resulting in EPA fines or penalties. 	

Risk	Context		Risk Tolerance Levels			
Category	Context	Appetite Rating	Council will tolerate	Council will not tolerate		
Financial	Council recognises the financial risks involved in delivering a wide range of services, programs, and capital projects. Council has a cautious appetite for variation in financial performance as long as longterm financial sustainability is not threatened	Cautious	 Minor unforeseen and unavoidable budget variations of up to 4% favourable and 2% unfavourable for divisional budgets Minor unforeseen/unavoidable variations in capital projects within established contingency allocated to each project Short Term (less than 12 months) negative performance from commercial business aspects if core services are not affected Minor losses, or capital outlays, attributable to new processes or innovation to improve services to meet community needs. Calculated financial risks to deliver infrastructure, improve service delivery or promote ecological sustainability. Minor cost impacts of the implementation of weighted scoring in procurement to benefit local competent suppliers. Capital expenditure budget delivered within 5% variance in a single year and a 2% average over a 3-year period 	 that contravene legislated or policy requirements Failure to maintain or implement effective systems, processes and controls which adequately protect Council from fraudulent activity 		



Risk	O	Risk	Risk Tolerance Levels			
Category	Context	Appetite Rating	Council will tolerate	Council will not tolerate		
Information Technology	Our assets (including information) are vital in maintaining our business practices and therefore Council has a cautious approach to safeguarding from both external and internal threats, misuse, modification, and unintended damage. Council's aim is to protect our assets contained within our ICT systems and services. We	Cautious	Some cyber threats which if they were successful would have a minor or limited impact upon Council's business because they do not compromise the integrity, confidentiality or availability Council information or assets Timely remediation of identified cyber security control weaknesses	Cyber Security Cybersecurity threats that could have been prevented through judicious application of technical and behavioural controls. An unprepared response in the event of an external cyber attack Significant threats to assets arising from external malicious attacks Misuse, inappropriate distribution, or loss of sensitive or confidential council information due to the actions of staff		
	will be successful through the application of appropriate internal controls, a cyber aware workforce, effective governance, timely remediation of identified control weaknesses, persistent review of the external threat landscape and consistent management of our third-party providers. Council has an open appetite for risks associated with	Open	 Scheduled outages that are agreed to by the business owners and are regarded as part of normal business activities Implementation of new technologies which create new opportunities for business improvement and innovation of systems which also could involve some minor to moderate risk. 	 IMT Systems and Services Prolonged unplanned outages of critical Council systems and services Failure to maintain systems and services which adequately protect Councils data and information and maintain adequate audit trails A lack of diligence in relation to information security the procurement and implementation of ICT systems and services Data loss due to inappropriate data management processes Poor information governance processes 		





Risk	Comtant	Risk	Risk Tolerance Levels		
Category	Context	Appetite Rating	Council will tolerate	Council will not tolerate	
	Information Technology Systems.			Failure to maintain recovery plans in place and test plans on a regular basis	



Council is committed to good governance and meeting legislated and regulatory requirements in a consistent and fair manner. Council has minimal appetite for significant breaches of legal obligations or contractual agreements that result in fines, penalties, or reputational damage. Council will seek innovative approaches to governance practices subject to compliance with legislation and protection of our interests Connect Category Council will tolerate Council will accordance with Council will accordance with Council vill accordance with Council vill accordance with Council will accordance with Council vill accordance with Council values that are not in line with professional advice. Minor technical breaches that have been considered by Council. Temporary non-compliance due to unrealistic regulators or recklessly breach internal policies. Material breaches of legislation or the Code of Conduct Failure to consider expert / professional l	Risk	Context	Risk	Risk Tolerance Levels			
governance and meeting legislated and regulatory requirements in a consistent and fair manner. Council has minimal appetite for significant breaches of legal obligations or contractual agreements that result in fines, penalties, or reputational damage. Council will seek innovative approaches to governance practices subject to compliance with legislation and protection of our interests. Decisions made on merit in accordance with Council in line with professional advice. Minor technical breaches that have been considered by Council. Temporary non-compliance due to unrealistic regulatory timeframes. Risks which may give rise to isolated complaints that are incidental to normal business activities despite best efforts to avoid or mitigate Streamlined governance processes subject to effective controls remaining in place Councillors, or contractors Unreasonable delays when reporting, investigating, or correcting any fraudulent, improper, unethical, or corrupt conduct. Any instances where Council Officials knowingly break the law, fail to comply with legal obligations or recklessly breach internal policies. Material breaches of legislation or the Code of Conduct Failure to consider expert / professional legal advice. Unauthorised release of confidential information. Any behaviour which gives rise to extensive litigation and indictable offences. Failure to comply with Government Directions or	Category	Context		Council will tolerate	Council will not tolerate		
	Governance	governance and meeting legislated and regulatory requirements in a consistent and fair manner. Council has minimal appetite for significant breaches of legal obligations or contractual agreements that result in fines, penalties, or reputational damage. Council will seek innovative approaches to governance practices subject to compliance with legislation	Minimal	Council values that are not in line with professional advice. Minor technical breaches that have been considered by Council. Temporary non-compliance due to unrealistic regulatory timeframes. Risks which may give rise to isolated complaints that are incidental to normal business activities despite best efforts to avoid or mitigate Streamlined governance processes subject	 councillors, or contractors Unreasonable delays when reporting, investigating, or correcting any fraudulent, improper, unethical, or corrupt conduct. Any instances where Council Officials knowingly break the law, fail to comply with legal obligations or recklessly breach internal policies. Material breaches of legislation or the Code of Conduct Failure to consider expert / professional legal advice. Unauthorised release of confidential information. Any behaviour which gives rise to extensive litigation and indictable offences. Failure to comply with Government Directions or 		



Risk	0	Risk Appetite	Risk Tolerance Levels			
Category	Category		Council will tolerate	Council will not tolerate		
Reputation	Council recognises the importance of protecting its reputation.	Cautious	 Moderate adverse local media and social media scrutiny or a number of complaints relating to action which delivers longer term benefits to the community. 	Improper, unethical, corrupt, unprofessional behaviour or failure to exercise respect and duty of care in accordance with our Council values and policies.		
	Council does however understand that negative publicity may occur where there is competing priorities and interests in the Community.	re	 Isolated minor incidents, concerns and complaints that can be resolved by management. 	,	 Material breaches of the Code of Conduct. Failure to uphold the probity of council decision-making. Any failure to avoid or appropriately manage conflicts of interest. 	
	Council has a cautious appetite for significant impacts on Council's reputation.			 Failure to act in a fair, honest, transparent, and accountable manner. Decision-making that is not open, honest, and transparent and reflects the long-term interests of the community. 		
				 Failure to notify Executive of significant incidents that may impact Council reputation in less than 24hrs of the incident occurring. 		



14.4 Appendix D: Example Building Service Level Framework

A service level framework can be applied for all asset categories. A framework is partially implemented for roads using a similar approach to the recommended model for buildings. The recommended framework includes:

- 1. Define and assign use categories to each building.
- 2. Establish facility **service levels** associated with use categories and define performance measures relating to condition, renewals, and maintenance intervention.
- 3. Develop a matrix of **operational and maintenance activities** and assign standards and frequency linked to the facility service level.
- 4. Develop a prioritisation and resource allocation model for capital works on buildings.
- 5. Integrate and align service level descriptions between supporting documents and asset plans.
- 6. Use service levels to assign operating hours, desirable facility provision, risk management, and a range of other functions.

Note that the following example framework is not currently implemented and is provided as a guide only. It is not to be used to measure current service levels.

14.4.1.1 Use Category

Buildings accommodate a wide variety of uses and services, some with specific requirements in terms of facility management. To ensure the model addresses the variability, it is recommended that a use category be assigned to the building. The number of use categories should be limited by grouping similar types and providing a definition that captures the main requirements of the group. Buildings can have mixed uses, and they can have multiple categories assigned to the one building. The assigned use category will influence the operational and maintenance activities and planning decisions for future capital works.

Use Category	Code	Use Category Definition
Community Facilities	CF	Buildings that are primarily provided to support service provision to members of the community. Includes community halls, community centres, libraries, senior citizens,
Commercial Facilities	со	This group of buildings are operated by a user group or tenant under a formal agreement with council that includes
Emergency management	EM	This group of buildings provides facility for emergency service and search and rescue type support agencies.
Operational	ОР	These buildings provide workspace for council staff. They may provide a customer service function; however the main purpose is to support back-of-house functions such as administration, depot, workshops, nursery, and alike.
Public Pools	PP	Buildings associated with pools including toilets, change facilities, plant room, administration, kiosk/café, gym, spectator areas and alike.



Leisure Centre	LC	Facility that provides indoor space for multi-use recreation and supporting a range of activities. Typically includes combinations of courts, gym, fitness rooms, pool, spectator areas, kiosk/café and alike.
Cultural Facilities	CU	Facilities that provide space for cultural arts and display and storage of artifacts.
Children and Youth Facilities*	CY	Facility that provide for specific and direct services to children and young people.
Park and Public Amenities		Buildings that primarily provide for toilet, change, shower, minor storage, and combination of these facilities. Typically located in association with parks, reserves, beachfront, town, and village centres.
Utility	UT	Buildings primarily provided for the purpose of storing or housing plant, equipment, materials, pumps, electrical distribution boards, etc. Not intended to provide space for regular working by people.

^{*} Wollongong City Council is committed to becoming a Child Safe Organisation. We aim to create an environment where children's safety and wellbeing is at the centre of thought, values, and actions that apply across all buildings and facilities. The unique function of the Children and Youth Facilities is that the primary use of the space is catering for services to children and young people, as opposed to other facilities that cater to a range of demographics.

In addition to the use category there are inherent attributes about the building that may impact the management of the facility. Building attributes may influence the risk and criticality rating of the building and have associated legislative requirements that impacts management actions. Examples of the attributes include heritage significance and/or hazardous materials (e.g. lead and/or asbestos).

The use category needs to be checked against the National Construction Code (NCC) building classification and land use zoning. The intended use category must be compatible with the NCC classification of the building and permissible use associated with the land use zoning. This is a requirement that applies equally to all building owners, not specific to Council.



14.4.1.2 Facility Service Level Category

A facility service level is an indication of the criticality or importance of the facility in supporting the services provided from the location. It is not sustainable to manage all buildings to the same service level. There are buildings that support services with high usage, or that have higher risk profile that should receive priority service over those that are less frequently used and/or have a lower risk profile. The table below is provided as a sample to demonstrate how service levels can be assigned based on the use category. Technical levels of service have also been provided to inform the performance monitoring for the "cost to satisfactory".

Facility Service Level								
Service Level	Service level description by use category							
	Generic	Community Facility	Commercial facility	Operational Facility	Technical Levels of Service			
Level 1	S1G Unavailability of the asset prevents delivery of a service to many of our service customers. Impact to service customer is immediate. Building aimed to serve a wider section of the community including those from outside of the LGA. Planned outage requires back-up, service transfer, and/or long-term planning	Regional Asset is critical to providing service at a regional level (attracts customers from across the LGA and beyond). Provides service to 100,000 – 1,000,000 people/yr. Catchment radius >15km. Travel time >45mins drive, >75min cycle (est av. Drive @20km/h, cycle @12km/hr, walk @4km/h).	S1CO High income generating facility. Exposure to significant liability due to business interruption and loss of trade by tenant. Tenant is an emergency service or search and rescue type provider (SES, RFS, other). Massive financial impact due to unavailability >\$500k.	S1OP Council is the main provider of the operational service to the majority of the LGA (e.g. Waste). Asset houses original organisational information – data and/or document storage. Accommodate >50 workers. Building is likely to have regular visitors to the site	Average network condition less than or equal to 3.5 and with less than 10% of stock in condition 4; and less than 5% of stock in condition 5. Assets will not have a backlog or components in condition 5. Priority defects will be issued in accordance with maintenance standards. Critical components associated can be in a condition 3, however any identified to be in a condition 4-5 will be rectified as a priority. Regular preventative maintenance will be			





	and notification to customers. Legislated requirement to provide access.	Specific purpose infrastructure. Primary users are vulnerable to impacts by loss of availability of service – aged care, childcare, healthcare.		Examples: Administration building, main depot. Value of stored items >\$500k.	conducted in accordance with service standards.
Level 2	Service requires continuous availability, although short disruption or outages are not catastrophic to service. Impact of service interruption creates significant inconvenience to many users. Interruption to service is noticeable within a few days. Contributes to a significant part of the service. Disruptions to availability result in moderate	S2CF District Asset is critical to providing service at a district level (attracts customers from across the LGA). Provides service to 20,000 – 100,000 people/yr. Catchment radius 5-15km. Travel time 18-45mins drive; 25-75min cycle.	S2CO Major financial impact due to unavailability >\$50k - \$500k.	S2OP Asset houses back-up organisational information – data and/or document storage. Accommodate 30-50 workers. Buildings providing space for repairs, maintenance, production, fabrication, plant propagation and growth, and alike (e.g. mechanic workshop, nursery). Value of stored items >\$50k - \$500k.	Average network condition less than or equal to 3.5 and with less than 5% of stock in condition state 5. Assets will not have a backlog or components in condition 5. Priority defects will be issued in accordance with maintenance standards. Critical components associated within an asset can be in a 3 condition, however any identified to be in a poorer condition will be rectified over the next 3 months. Regular preventative maintenance will be conducted in accordance with service standards.



	inconvenience to service customer. Interruption to service is noticed within a week. Alternative options available relatively easily.				
Level 3	S3G Contributes to a significant part of the service. Disruptions to availability result in moderate inconvenience to service customer. Interruption to service is noticed within a week. Alternative options available relatively easily.	S3CF Sub-district Provides service to 20,000 – 30,000 people. Catchment radius 5- 15km. Travel time 18-45mins drive; 25-75min cycle.	S3CO High financial impact due to unavailability >\$5k - \$50k.	S3OP Accommodate 10-30 workers. Value of stored items >\$5k - \$50k.	Average network condition less than or equal to 3.5 and with less than 10% of stock in condition 5. Assets will be allowed to have a proportion of backlog – however any critical component or any defect with a safety risk will be addressed as a priority. It is acceptable for critical components to reach a condition 4; however, they should be identified and included for renewal within the next 6 months once they reach this condition grading. Regular preventative maintenance will be





					conducted in accordance with service standards.
Level 4	S4G Is important to the service, however disruptions to availability result in minor inconvenience to service customer. Service customers notice impacts. Alternative options available within a reasonable additional distance.	S4CF Local Provides service to 5,000 - 20,000 people. Catchment radius 1-5km. Travel time 3-18mins drive; 5-25min cycle or 15 - 75min walk.	S4CO Minor financial impact due to unavailability >\$1k - \$5k.	S4OP Accommodate <10 workers. Value of stored items >\$1k - \$5k.	Average network condition less than or equal to 3.5 and with less than 10% of stock in condition 5. Assets may have a proportion of backlog – however critical components or any defect with a safety risk will be addressed as a priority. Critical components can reach condition 4; however, they should be identified for renewal within the next 12 months once they reach this condition grading. Regular preventative (cyclic) maintenance will be conducted on 'plant & equipment' and 'emergency services' components. Other maintainable components maintenance standards.
Level 5	S5G	S5CF	S5CO	S5OP	Average network condition less than or equal to 4 and





Disruptions to availability	Neighbourhood	Disruption in service has	Buildings not intended	with less than 10% of stock in
result in minor		a limited exposure to loss	for to accommodate	condition 5.
inconvenience to service	Provides service to 1,000	of business claim.	regular working – i.e	
customer. Alternative	- 5,000 people.	Lave financial insurant des	Temporary work	Assets may have a proportion
options available	Catchment radius 1km.	Low financial impact due	<4hrs/day.	of backlog – however any critical component or defect
relatively easily.		to unavailability <\$1k.		with a safety risk will be
Service interruption may	Travel time less than			addressed or made safe as a
go unnoticed for	15min drive or cycle or			priority.
extended periods due to	walk.			, ,
limited impact.				Temporary closures have low
				impact.
Impact very localised.				Critical components can reach
				a condition 5; however, they
				should be identified to be
				renewal within the next 12
				months once they reach this
				condition grading.
				Regular preventative
				maintenance will be
				conducted in accordance with
				service standards.

14.4.1.3 Service Frequency

The identification of use category and service level category can be used to establish a schedule of activities and target service intervals.

Frequency	Other	Daily	Weekly	1m	3m	6m	1yr	2yr	3yr	4yr	5yr	6yr+
Asset Operational Servi	ces	_	_	_	_	_	_	_	_	_	_	_
Asset Inspection – Level 1				S1	S2	S3	S4-S5					
Asset Inspection – Level 2							S1-5					
Asset Inspection – Level 3								S1			S2-S5	
Cleaning – general (vacuum, toilets, mop tiled areas)		S1-S3	S4-S5									
Sanitary Waste				All								
Toilet cleaning (additional servicing)	PA1 – Twice daily in summer	S1-S3										
Deep cleaning (carpet shampoo, windows)						S1, S2	S3	S4, S5				
Waste removal		S1, S2	S3-S5									
External cleaning							S1	S2				





Landscaping / Yard			S1, S2		S3-5				
Irrigation					Test and flush				
Painting (internal)								S1-2	7yrs S3- 5
Painting (external)									10yrs S1-5
Pest Control and termite inspection			S1	S2	S3-5			Termite inspect S3 - S5	
Gutter cleaning			Significa nt tree cover	Moderat e tree cover/ box gutters	Inspect				
Solar Panel Clean					All facilities within 1km of the coast		All others		
Gas appliance					Inspect and test				
Electrical Appliance					Inspect and test				



HVAC service		S1		S2-5				
Water cooling towers		Inspect	legionella testing					
Water tank					S1-5			
Plant registration					S1-5			
Automatic Doors			Inspect and service		Register			
Water treatment					All			
Elevator and platform		Inspect and service			Register			
Heat recovery systems					All			
Air ventilation			Minor service		Major service			
Drinking water chiller				All				
Grease trap					All			
Waterless urinal			All					
RCD and Electrical Distribution Board					All			
Thermostatic Mixing Valve				Inspect and test			Replace cartridge	
Backflow device					All			
Sewer pump					All			





Essential Fire Services				Test as required	Test as required	Test as required	Test and register	Replace backup battery			
Automatic toilets (exeloo)							Inspect and service				
Height safety							Inspect and service				
Cooling tower	Test per standard						Registrat ion				
Reactive Maintenance				•				•			
All categories	Refer defe	ct manage	ement stand	lards							
Graffiti	Removal -	- 5 days									
				ı		1		ı		1	
Audio visual										inspect	10yr
IM&T fitout										inspect	
Furniture *											15yrs
Minor appliance renewal (kettle, fridge, etc) *	Tag and test per AS3760										10yrs
Signage *											As required
Other components	Building co	omponents	– in accord	dance with r	enewal plar	ns based on	condition a	nd remainin	g useful life).	

^{*} Non-financial assets – not listed in the asset register





14.4.1.4 Operating Hours

The framework can be used to document a consistent approach to operational hours of facilities.

		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Public Holidays	Winter	Summer
Community Facility	CF 1-2		9am- 8:30pm	9am- 8:30pm	9am- 8:30pm	9am- 8:30pm	9am-6pm	9am-5pm	Closed		
	CF4		9am-5pm	9am-5pm	9am-5pm	9am-5pm	9am-5pm		Closed		
	CF 4	N/A	9am-3pm	9am-3pm	9am-3pm	9am-3pm	9am-3pm	N/A	Closed		
	CF5		10am-1pm			10am-1pm			Closed		
Pools	PP1	7am - 2pm	6am - 6pm	6am - 6pm	6am - 6pm	6am - 6pm	6am - 6pm	7am - 2pm	7am - 2pm		
	PP2	6am - 2pm		6am - 2pm	6am - 2pm	6am - 2pm	6am - 2pm	6am - 2pm	Closed		
	PP3								Closed	Closed	
Public amenities	PA1	24hr	24hr	24hr	24hr	24hr	24hr	24hr			
	PA2-5		6am-6pm	6am-6pm	6am-6pm	6am-6pm	6am-6pm		Closed		

14.4.1.5 Facility Provision

The service level framework can be used to provide guidance on the typical inclusions for different services and facilities. This creates an opportunity to standardise the provision of equipment and fit out associated with differing service levels. A standardised schedule of inclusions assist in managing the asset in terms of maintaining and specifying upgrades and future provisions.



14.5 Appendix E: Example Building Defect Management Framework

To complement the service level framework, a defect management framework can be considered. The model essentially allocates a priority linked to the facility use, risk and severity of the defect. It assists in assigning resources, determining appropriate response times, and planning works.

The framework assigns a score to the defect and the score indicates a target response time. The lower the score, the higher the priority and shorter response times. Some issues, such as safety hazards, may trigger the same response time regardless of facility use.

The framework is outlined below as an example. It is not a complete solution for implementation, it requires the customisation and identification of defects based on the asset components. The defect type and severity can be customised to a course or fine-grained detail depending on how work is coordinated. It is recommended to have defect types for each component to enable appropriate work order allocation to the asset component level.

14.5.1.1 Facility Score

Assign a facility score based on identified service level. This will provide a weighting to the overall score relative to the use of the facility.

	S1	S2	S3	S4	S5
Facility Score	1	2	3	4	5

14.5.1.2 Defect Type and Severity Score

Develop a matrix of defect types by asset component and allocate a defect score that identifies the relative risk of the issue identified. The granularity will be determined by a collaborative decision based on how work is to be coordinated, and the level of information sort for asset management purposes.

Asset Component	Defect Code	Location	Defect Type	Severity	Description	Severity Score
All	SHA1	Any	Safety Hazard	All	Flooding, electrical trip, storm damage, fire, vandalism resulting in hazard. Defect resulting in the building being unable to be secured.	1
Structure	SWC1	External walls	Cracking	Minor	Superficial cracking <2mm	20
	SWC2			Moderate	2 - 5mm	10
	SWC2			Major	Separation, settlement, and displacement cracking >5mm	4
	SWH1		Hole	Small	<50mm	15
	SWH2			Large	>50mm	5
	SSN1	Stairs	nosing	All	Nosing dislodged or broken	5
	SCS1	Columns	spalling	Minor	Staining, cracking, and minor loss of concrete	8
	SCS2			Major	Significant loss of concrete	2
Roof	RSF1	Roof sheeting	Fixings	Minor	Fixings showing signs of corrosion, sheets still fixed, less than 10% of fixings affected	10



Continue	FCA2	nents		Major	missing drawer front or doors	4
Fitout	FCA1	Cabinetry	All	Minor	Signs of wear and tear, doors or drawers not closing flush Cabinets separating from the wall,	20
	RPA2			Major	Significant cracking, signs of displacement or rotation, separation of render	2
	RPA1	Parapet	All	Minor	Cracking, no signs of displacement or rotation	10
	RST2			Major	Tiles cracked – visible signs of water damage to areas below	3
	RST1		Tiles	Minor	Tiles cracked – no signs of water ingress	10
	RSS2			Major	Roof sheeting corroded – visible signs of water damage to areas below	3
	RSS1		Sheet	Minor	Roof sheeting corroded – no signs of water ingress	10
	RSF2			Major	Fixings showing significant signs of corrosion, sheets not adequately fixed, more than 10% of fixings affected	2

14.5.1.3 Defect Criticality Score

The defect criticality score is determined by multiplying the defect score by the facility score.

Defect	Defect	Service Level							
Code	Severity Score	S1	S2	S3	S4	S5			
SHA1	1	1	2	3	4	5			
SWC1	10	10	20	30	40	50			
SWC2	5	5	10	15	20	25			
SWC2	2	2	4	6	8	10			
Continue	Continue for all defects								

14.5.1.4 Target Response Times

A table of target response times should be prepared to guide resource allocation. It can also be used to program work and determine the cost to complete defect work. It will also enable measurement of actuals against targets to determine if the target response times are achievable given the resource and budget constraints. Consideration should be given to deferring non-urgent works if the repair/service can be scheduled with the next a planned maintenance activity. In some instances, the action may not be to undertake work, but simply to monitor in 12 months for changes in severity for low priority defects.

Target Response Time	Total Defect Score
Less than 4 hours	5
2 days	10
1 week	15
2 weeks	20
1 month	30
3 months	40
6 months	50
12 months	100



ITEM 2

PUBLIC EXHIBITION - DRAFT WOLLONGONG DEVELOPMENT CONTROL PLAN (DCP) 2009 - APPENDIX 4 DEFINITIONS

On 15 December 2009, Council adopted the Wollongong Development Control Plan (DCP) 2009. The DCP came into force on 3 March 2010, following the commencement of the Wollongong Local Environmental Plan (LEP) 2009.

A review of Appendix 4: Definitions has been undertaken to align with current legislation, planning policy and design practices. This has resulted in some definitions being removed or updated and additional definitions being included.

It is recommended that Council endorse Appendix 4 Definitions for public exhibition.

RECOMMENDATION

The draft Wollongong Development Control Plan 2009 – Appendix 4 be exhibited for minimum of 28 days.

REPORT AUTHORISATIONS

Report of: Chris Stewart, Manager City Strategy

Authorised by: Linda Davis, Director Planning + Environment - Future City + Neighbourhoods

ATTACHMENTS

1 Draft Appendix 4: Definitions

BACKGROUND

In 2009 Council prepared and exhibited the Wollongong Development Control Plan (DCP) to accompany the Wollongong Local Environmental Plan 2009. On 15 December 2009, Council adopted the Wollongong DCP 2009, and it came into force on 3 March 2010. Periodic reviews of the DCP 2009 are undertaken to ensure plans continue to be useful and relevant.

Appendix 4 Definitions of the DCP contains terms and definitions used throughout the DCP. It was last updated in 2016 at which time additional terms were included as part of the sustainability review. There has not been a comprehensive review of the terms since the DCP came into force. This review seeks to update Appendix 4 in line with current legislation, planning policy and design practices.

PROPOSAL

A review of Appendix 4 has resulted in proposed updates to reflect current legislation, environmental planning instruments and design practices.

Attachment 1 includes a marked up copy of Appendix 4 showing the proposed changes. The key amendments to the Appendix are outlined below.

New Format

Appendix 4 has been transferred to the new DCP format. This new format will continue to be rolled out progressively in future amendments to DCP Chapters.

New Introductory Section

A new section has been added to the start the Appendix 4 to provide context and clarity on the terms defined.

Terms and Definitions Amended

Definitions have been updated to reflect changes in legislation, processes, policy and/or to ensure currency where the term has not been reviewed since the chapter first came into force. Definitions have also been updated to refer to their legislative source rather than provide a duplication, this helps to ensure currency should the legislation change.



Terms Added

Terms are defined throughout various chapters of the DCP. Terms that were defined elsewhere in the DCP and not within Appendix 4 have been included for completeness. Additional terms have also been included where no clear definition exists at the recommendation of specialist staff, with the aim to provide additional clarity to the users of the DCP.

Terms Removed

Terms that are duplicated in legislation or no longer required have been removed.

CONSULTATION AND COMMUNICATION

Consultation was conducted with Council staff during the review of Appendix 4, this included subject matter experts who regularly use the DCP in the assessment of development applications.

This report proposes public exhibition of the draft amendments to Appendix 4: Definitions for a minimum period of 28 days. All submissions will be reviewed, and any post exhibition revised amendments will be reported to a future Council meeting for consideration prior to adoption.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong Our Future 2032 Community Strategic Plan Objectives 1 "We value and protect our environment" and 5 "We have a healthy community in a liveable city". It specifically delivers on the following -

	Community Strategic Plan 2032	Delivery Program 2022-2026				
	Strategy	Service				
1.5	Maintain the unique character of the Wollongong Local Government Area, whilst balancing development, population growth and housing needs	Land Use Planning				
5.2	Urban areas are created and maintained to provide a healthy and safe living environment for our community					

SUSTAINABILITY IMPLICATIONS

The revised DCP Appendix 4 Definitions provides greater clarity to assist with the understanding and application of development controls in the DCP, many of which seek to improve the sustainability, liveability and resilience of our city.

RISK MANAGEMENT

The revised DCP Appendix 4 Definitions will provide improved clarity to Council and the community regarding terms used in the DCP. The review also aims reduce the instance of conflicting definitions within the DCP or broader planning framework.

The exhibition process will allow the community and industry to provide further input into the draft amendments proposed to Appendix 4 Definitions.

FINANCIAL IMPLICATIONS

There is no financial implication for Council to progress this work. The review has been undertaken using internal resources under the current operational budget.

CONCLUSION

A review of Wollongong Development Control Plan 2009 Appendix 4 Definitions has been undertaken and identified the need for amendments in line with current legislation, planning policy and design practices. This report recommends that the revised draft Wollongong Development Control Plan 2009 Appendix 4 Definitions be endorsed for exhibition for a minimum period of 28 days.





Appendices Appendix 4 Definitions

Contents

1.	Introduction	2
2.	Definitions and Abbreviations	2

KEY

Added

Removed

Existing definition contained in a DCP Chapter

No change from existing Appendix

DOCUMENT CONTROL

Rev No.	Adoption Date	In Force Date	Revision Details
1	15 December 2009	1 March 2010	Adopted
2	21 November 2016	14 December 2016	Updated as part of Sustainability Review
3	DRAFT	DRAFT	FOR CONSULTATION – reviewed for consistency and currency



1. INTRODUCTION

This Development Control Plan (DCP) adopts the terms and definitions of the NSW environmental planning instruments and legislation, such as:

- Environmental Planning and Assessment Act 1979 (the Act)
- Environmental Planning and Assessment Regulations 2021 (the Regulations)
- Interpretation Act 1987
- · State Environmental Planning Policies (SEPPs)
- Wollongong Local Environmental Plan 2009 (LEP)
- Relevant Practice Notes, such as PN 11-003 Preparing LEPs using the Standard Instrument: definitions)10 March 2011 as amended or replaced

Definitions contained in the Acts, the Regulations, SEPPs and the LEP override the definitions in the DCP. In the event of an inconsistency the definition in the higher order instrument prevails.

The definitions below are provided to assist in the interpretation of this DCP. Additional definitions may also be provided throughout the chapters of this DCP.

2. DEFINITIONS AND ABBREVIATIONS

Aboriginal object has the same meaning as in the Wollongong Local Environmental Plan 2009. Means any deposit, object or other material evidence (not being a handicraft made for sale) relating to the Aboriginal habitation of an area of New South Wales, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains.

Absorption trench (onsite sewage management) means a trench or trenches excavated into the ground and filled with aggregate and piping or arch fabric, used for the absorption of effluent.

Absorption trench (stormwater) means an excavation that has been filled with material or prefabricated void units that are conducive to the drainage of stormwater and which are designed to drain vertically or side-ways, into adjacent sub-surface in-situ void or fill material.

Acceptable risk (in relation to Chapter E12): Acceptable risk for loss of life is taken as, one order of magnitude, lower than the tolerable risk for the person most at risk, as shown in the risk matrix as published in AGS 2007. Acceptable risk for loss of property is taken as low or very low in the risk matrix as published in AGS 2007 as amended.

NOTE: This does not preclude development on sites where the risk has been identified as being moderate provided that measures are taken as described in the above mentioned risk matrix as published in AGS 2007 as amended (refer to clause 5.3.(c)).

Access handle means that portion of land within a battleaxe lot which has a road frontage and may contain the access driveway.

Accredited Auditor means a person who is accredited by a professional body approved by the Minister for Planning. Accredited auditors may act as a Principal Certifying Authority (PCA) and may issue:

- Complying Development Certificates;
- Construction Certificates;
- Compliance Certificates;
- Occupation Certificates.

Aboriginal Place means an area declared under Section 84 of the NSW National Parks and

Appendices



Wildlife Act 1974 as an 'area of cultural significance to the Aboriginal community'.

ACHAR means Aboriginal Cultural Heritage Assessment Report

Acid sulfate soils has the same meaning as in the Wollongong Local Environmental Plan 2009. Means naturally occurring sediments and soils containing iron sulfides (principally pyrite) or their precursors or oxidation products, whose exposure to oxygen leads to the generation of sulfuric acid (for example, by drainage or excavation).

Active transport means transport that requires individual physical effort to provide mobility. For personal travel, this includes walking, use of a wheelchair or mobility aid, cycling using a bicycle (without power assistance) and power-assisted micromobility. Active forms of transport for freight delivery include both pedal-powered and electric power-assisted cargo bikes

Adaptable housing means housing that is specifically designed and built to accommodate future changes so that it can be easily modified (with minimum inconvenience and minimum costs) in the future to suit the changing needs of occupants with mobility impairment or life cycle needs (Australian Standard AS 4299: Adaptable Housing).

Adjacent to any Category 1, Category 2 or Category 3 watercourse means land within the width of the riparian corridor for the relevant watercourse category as set out in Chapter E23 section 9.2 plus an additional ten metres landward away from the outer edge of the riparian corridor

Adjacent to mapped watercourses means land within the width of the riparian corridor for the relevant watercourse category as set out in Chapter E23 section 9.2 plus an additional ten metres landward away from the outer edge of the riparian corridor.

Advertising sign means a sign, notice, device or representation in the nature of an advertisement, whether illuminated or not which is:

- a) visible from any public road, public place or public reserve and
- b) is not a road traffic signal or sign.

Advertisement has the same meaning as in the Act. Has the same meaning as in the Act defined as a sign, notice, device or representation in the nature of an advertisement visible from any public place or public reserve or from any navigable water.

Advertising area means the entire area of a sign face, including any margin, frame or embellishment which forms an integral part of the sign and in the case of an advertising structure with more than 1 sign face, the maximum surface area of the combined faces.

Advertising structure-has the same meaning as in the Act defined as a structure used or to be used principally for the display of an advertisement.

Aerated wastewater treatment system means a wastewater treatment system typically involving sedimentation, aerobic biological oxidation, aerobic sludge digestion and effluent disinfection with final discharge of effluent to a land application area.

Affordable housing has the same meaning as in the Act.: Has the same meaning as in the Act defined as housing for very low income households, low income households or moderate income households, being such households as are prescribed by the regulations or as are provided for in an environmental planning instrument.

AGS (2007) means Australian Geomechanics Society's Practice Note Guidelines for Landslide Risk Management 2007 (AGS 2007) originally cited in Australian Geomechanics Vol 42 No 1 March 2007 or latest version.

Agriculture has the same meaning as in the *Wollongong Local Environmental Plan 2009*: Means any of the following:

a) Animal boarding or training establishments,



- b) Aquaculture,
- c) Extensive agriculture,
- d) Farm forestry,
- e) Intensive livestock agriculture,
- f) Intensive plant agriculture.

AHIP means Aboriginal Heritage Impact Permit

Alluvium means material eroded, transported and deposited by streams.

Allotment is the legal parcel of land which has been created via subdivision and registered with the Land Property Information service normally having a Lot number and a Deposited Plan number.

Alteration (in relation to heritage conservation) means the making structural or non-structural changes to the exterior or interior of a heritage item such as to the detail, fabric, finish or appearance. It may involve conservation, maintenance or repair works necessary to ensure the conservation, adaptive reuse or continued upkeep of a heritage building.

Amusement centre has the same meaning as in the Wollongong Local Environmental Plan 2009. : Means a building or place (not being part of a pub or registered club) used principally for playing:

- a) Billiards, pool or other like games, or
- b) Electronic or mechanical amusement devices, such as pinball machines, computer or video games and the like.

Ancillary Residential Structure is a non-habitable building ancillary to a dwelling-house and includes a garage, carport, shed, cabana, pergola, deck, swimming pool (inground and above ground), outside spa, Jacuzzi, hot tub, aviary, retaining wall, fence, shade sail, water tank etc.

Forecast (ANEF) contour has the same meaning as clause 7.10(5) in the Wollongong Local Environmental Plan 2009 means the Australian Noise Exposure Forecast contours surrounding the Illawarra Regional Airport at Albion Park Rail and marked on a ANEF map which highlight the level of noise exposure from aircraft operating out of the Illawarra Regional Airport.

Animal boarding or training establishment-has the same meaning as in the Wollongong Local Environmental Plan 2009: Means a building or place used for the breeding, boarding, training, keeping or caring of animals for commercial purposes (other than for the agistment of horses), and includes any associated riding school or ancillary veterinary hospital.

Annual Exceedance Probability (AEP) is the chance of a flood of a given or larger size occurring in any one year, usually expressed as a percentage. Example, if a peak flood discharge of 500 m3/s has an AEP of 1%, it means that there is a 1% chance (that is one-in-100 chance) of a 500 m3/s or larger event occurring in any one year. the probability that a flood of a given or larger magnitude will occur within a period of one year. Its reciprocal is equivalent to average recurrence interval.

Antecedent means pre-existing conditions (eg. wetness of soils).

Application/s means an application for the determination of Council for development which includes an Integrated Development Application, Development Application, Section 96 Application or Section 82A Application.

Aquaculture has the same meaning as in the *Wollongong Local Environmental Plan 2009*: Has the same meaning as in the Fisheries Management Act 1994 defined as follows: Aquaculture means:

a) Cultivating fish or marine vegetation for the purposes of harvesting the fish or marine

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vegetation or their progeny with a view to sale, or

Keeping fish or marine vegetation in a confined area for a commercial purpose (such as a fishout pend),

but does not include:

- c) Keeping anything in a pet shop for sale or in an aquarium for exhibition (including an aquarium operated commercially), or
- d) Anything done for the purposes of maintaining a collection of fish or marine vegetation otherwise than for a commercial purpose, or
- e) Any other thing prescribed by the regulations (made under the Fisheries Management Act 1994).

Aquifer Interference Activity has the same meaning as provided in the Water Management Act 2000.

Aguifer has the same meaning as provided in the Water Management Act 2000.

Ares of archaeological potential means an area containing or identified as likely to contain (prior to archaeological test investigation) archaeological material relating to the development of Wollongong including relics, artefacts building remains, 'works', deposits or other material evidence that may or may not be listed on Schedule 5 of the *Wollongong Local Environmental Plan 2009*

Areal: Variation over an area of a particular parameter.

ARPANSA means Australian Radiation Protection and Nuclear Safety Agency

Arterial road typically means a main road carrying in excess of 15,000 vehicles per day and over 1,500 vehicles per hour in the peak period. It can be a street or a road under the *NSW Movement and Place Framework* and has a high movement function. They predominately carry traffic from one centre or region to another, providing principal avenues for metropolitan traffic movements. **shown on the Wollongong Local Environmental Plan 2009** maps being an arterial road or a An Arterial Road generally includes roads declared to be a highway, main road, controlled access road or secondary road or a tollway under the *Roads Act 1993*.

Asbestos has the same meaning as in the Work Health and Safety Act 2011 means the fibrous form of those mineral silicates that belong to the serpentine or amphibole groups of rock forming minerals, including actinolite, amosite (brown asbestos), anthophyllite, chrysotile (white asbestos), crocidolite (blue asbestos) and tremolite. (OHS Regulations 2001).

Asbestos removal work has the same meaning as in the *Work Health and Safety Regulation* 2017 means any work, in which bonded or friable asbestos material is removed, repaired or disturbed. (OHS Regulation 2001).

At-grade car parking means any car parking provided on the ground level of a building or at ground level outside a building.

Attached dwelling has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a building containing 3 or more dwellings, where:

- a) Each dwelling is attached to another dwelling by a common wall, and
- b) Each of the dwellings is on its own lot of land (not being an individual lot in a strata plan or community title scheme), and
- c) None of the dwellings are located above any part of another dwelling.

Australian Height Datum (AHD) is a standard datum for expressing vertical information national



reference datum for level

Australian Rainfall & Runoff is a technical manual providing guidance on current drainage design practice published by the Institute of Engineers Australia. the Commonwealth of Australia (Geosciences Australia)

AUSTROADS means AUSTROADS: "Guide to Traffic Engineering Practice".

Average Exceedance Probability (AEP) means the magnitude of a storm.

Average recurrence interval (ARI) means the long-term average number of years between the occurrence of a flood as big as, or larger than, the selected event. For example, floods with a discharge as great as, or greater than, the 20 year ARI flood event will occur on average once every 20 years. ARI is another way of expressing the likelihood of occurrence of a flood event.

Average Recurrence Interval the expected or average interval of time between exceedences of a rainfall or flood event of given magnitude.

Average Recurrence Interval (ARI) the average period between the recurrence of a storm event of at least a given rainfall intensity. The ARI represents a statistical probability. For example, a 10 year ARI indicates an average of 10 events over 100 years. The ARI is not the period between actual events.

Backpackers' accommodation has the same meaning as in the *Wollongong Local Environmental Plan 2009*:-Means tourist and visitor accommodation:

- a) That has shared facilities, such as a communal bathroom, kitchen or laundry, and
- b) That will generally provide accommodation on a bed basis (rather than by room).

Backwater profile is the longitudinal profile of the water surface in a stream where the water surface is raised above its normal level by a natural or artificial obstruction.

Balcony means an open area above ground level, not being an enclosed room or area, attached to or integrated with a dwelling for the exclusive enjoyment of the occupant or occupants of a dwelling building but does not include a basement podium or roof terrace defined elsewhere within this DCP.

Basement car park (in relation to floodplain management) refers to a car parking area wholly or partly accommodated underground, below a building. The roof of this space, including any solid walls on the podium, must not exceed 1.2m in height above natural ground level or finished ground level, whichever is the greatest distance.

Basement podium means the supporting structure over any portion of the basement for support of the structure above. The basement podium may be accessible for use from the dwelling/s it adjoins and does not include a balcony or roof terrace defined elsewhere in this DCP.

Battleaxe lot has the same meaning as in the Wollongong Local Environmental Plan 2009. ::-Is a lot where only the access handle has direct road frontage.

BCA means the Building Code of Australia.

Beach refers to the sandy shore of the sea at mean high water mark.

Bed and breakfast accommodation has the same meaning as in the *Wollongong Local Environmental Plan 2009*. : Means tourist and visitor accommodation comprising a dwelling (and any ancillary buildings and parking) where the accommodation is provided by the permanent residents of the dwelling and:

- a) Meals are provided for guests only, and
- b) Cooking facilities for the preparation of meals are not provided within guests' rooms, and



c) Dormitory-style accommodation is not provided.

Biochemical oxygen demand (BOD5) means the amount of oxygen required for the biological decomposition of organic matter, measured over a period of 5 days.

Blackwater means human faeces and urine and wastewater heavily and directly contaminated with human faeces and urine generated from a toilet, urinal, bidette or bidet. Blackwater may also contain contaminated solid material, such as toilet paper. Although not strictly water-based, human faeces and urine entering a waterless composting toilet is considered as "blackwater".

Block refers to a group of subdivided lots, the edge of which is bound by public roads, and in some cases, public roads and public open space.

Boarding house has the same meaning as in the Wollongong Local Environmental Plan 2009 : Means a building:

- a) That is wholly or partly let in lodgings, and
- b) That provides lodgers with a principal place of residence for 3 months or more, and
- c) That generally has shared facilities, such as a communal bathroom, kitchen or laundry, and
- d) That has rooms that accommodate one or more lodgers,

But does not include backpackers' accommodation, a group home, a serviced apartment, seniors housing or hotel or motel accommodation.

Brothel has the same meaning as in the Act.

Buildable land means land on which the erection of a building is not constrained by being flood prone, subject to instability, subject to easements or restrictions of access.

Building has the same meaning as in the Act. defined to include part of a building and any structure or part of a structure, but not including a manufactured home, a moveable dwelling or associated structure (or part of a manufactured home, moveable dwelling or associated structure).

Building envelope means the three-dimensional shape within which a development must fit. It defines the limits for the siting (including setbacks) and height of any buildings.

Building footprint means the area of land measured at finished ground level that is enclosed by the external walls of a building or any attached balconies or terraces.

Building height (or **height of building**) has the same meaning as in the *Wollongong Local Environmental Plan 2009*. Means the vertical distance between ground level (existing) at any point to the highest point of the building, including plant and lift overruns, but excluding communication devices, antennae, satellite dishes, masts, flagpoles, chimneys, flues and the like.

Building identification sign has the same meaning as in the *Wollongong Local Environmental Plan 2009*. Means a sign that identifies or names a building and that may include the name of a building, the street name and number of a building, and a logo or other symbol, but that does not include general advertising of products, goods or services.

Building Sustainability Index (BASIX) is a web-based planning tool for the assessment of the potential performance of new residential development in terms of its energy efficiency and water usage efficiency. A BASIX certificate must be submitted with a Development Application or a Complying Development Certificate for any new residential development. BASIX is implemented under *State Environmental Planning Policy* (Building Sustainability Index) 2004 (Sustainable Buildings) 2022.

Building line or **setback** has the same meaning as in the *Wollongong Local Environmental Plan* 2009. For the purposes of this DCP a:



- Front building line is the perpendicular distance a building or structure is set back from the front property boundary at the primary-street frontage of a lot
- Secondary building line is the distance a structure is set back from the property boundary at
 the secondary street frontage in the case of a corner lot.

-Means the horizontal distance between the property boundary or other stated boundary (measured at 90 degrees from the boundary) and:

- a) A building wall, or
- b) The outside face of any balcony, deck or the like, or
- c) The supporting posts of a carport or verandah roof,

Whichever distance is the shortest.

Building work has the same meaning as in the Act.—means any physical activity involved in the erection of a building or alterations and additions to a building or structure.

Bulky goods premises means a building or place used primarily for the sale by retail, wholesale or auction of (or for the hire or display of) bulky goods, being goods that are of such size or weight as to require:

- a) A large area for handling, display or storage, or
- b) Direct vehicular access to the site of the building or place by members of the public for the purpose of loading or unloading such goods into or from their vehicles after purchase or hire,

But does not include a building or place used for the sale of foodstuffs or clothing unless their sale is ancillary to the sale or hire or display of bulky goods.

Bush fire hazard reduction work has the same meaning as in the *Rural Fires Act 1997*. defined as follows:

Bush Fire Hazard Reduction Work: Means:

- a) The establishment or maintenance of fire breaks on land, and
- b) The controlled application of appropriate fire regimes or other means for the reduction or modification of available fuels within a predetermined area to mitigate against the spread of a bush fire.
- c) But does not include construction of a track, trail or road.

Bushfire prone land has the same meaning as in the *Wollongong Local Environmental Plan 2009*: Is land that can support a bush fire or is likely to be subject to bush fire / ember attack. In general, bush fire prone land identifies vegetation types and associated buffer zones.

Business identification sign has the same meaning as in the *Wollongong Local Environmental Plan 2009*: Means a sign:

- a) That indicates:
 - i) The name of the person or business, and
 - ii) The nature of the business carried on by the person at the premises or place at which the sign is displayed, and
- b) That may include the address of the premises or place and a logo or other symbol that identifies the business;



c) But that does not include any advertising relating to a person who does not carry on business at the premises or place.

Business premises has the same meaning as provided in the *Wollongong Local Environmental Plan 2009*. : Means a building or place at or on which:

- An occupation, profession or trade (other than an industry) is carried on for the provision of services directly to members of the public on a regular basis, or
- b) A service is provided directly to members of the public on a regular basis, and may include, without limitation, premises such as banks, post offices, hairdressers, dry cleaners, travel agencies, internet access facilities, medical centres, betting agencies and the like, but does not include sex services premises.

Campervan means a moveable dwelling that is designed so as to be registrable as a motor vehicle under the Traffic Act 1909 Road Transport Act 2013 and includes a camper trailer.

Car park has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a building or place primarily used for the purpose of parking motor vehicles, including any manoeuvring space and access thereto, whether operated for gain or not.

Caravan means a moveable dwelling that is designed so as to be registrable as a trailer under the Traffic Act 1909 Road Transport Act 2013 but does not include a campervan /camper trailer.

Caravan park has the same meaning as in the *Wollongong Local Environmental Plan 2009*. Means land (including a camping ground) on which caravans (or caravans and other moveable dwellings) are, or are to be, installed or placed.

Catchment refers to an area draining into a particular creek system, typically bounded by higher ground around its perimeter.

Category 1 Remediation Work means contaminated land remediation work that requires formal development consent as per the legislative requirements under Chapter 4 of State Environmental Planning Policy-No. 55 Remediation of Land. (Resilience and Hazards) 2021.

Category 2 Remediation Work means contaminated land remediation work that does not require formal development consent as per the legislative requirements under Chapter 4 of State Environmental Planning Policy-No. 55 — Remediation of Land. (Resilience and Hazards) 2021.

Ceiling height means the vertical distance from the ceiling level at the outside wall to natural ground level or finished ground level whichever is lower. For a 'cathedral', raked or curved ceiling, or where the roof structure of the building serves the same purpose as the ceiling of a conventional building, the ceiling height is measured as the vertical distance from the pitching point at the outside wall to natural ground level or finished ground level, whichever is lower.

Centres are a concentrated area within a city, town or village which is a focus for enterprises, services, shopping, employment and social interaction. They are where people meet, relax, work and often live. Centres range in size and intensity of use and include small village, village, Town, Major Town, Major Regional and Regional City Centres. A Centre generally has higher intensity uses at its central core with smaller street blocks and a higher density of streets and lots, and is usually well served by public transport.

Channel width means the perpendicular width between the top of bank on each side of a watercourse

Character has two specific elements, namely:

- a) "Existing character" relates to the current patterns of natural and urban geography which may be observed in an area; and
- b) "Desired or future character" which provides objectives for the future development of a suburb and which emphasizes the important existing features or qualities of the area that should be



maintained or enhanced.

Child care centre has the same meaning as 'centre-based child care facility' as provided in the *Wollongong Local Environmental Plan 2009*. means a building or place used for the supervision and care of children that:

- a) Provides long day care, pre-school care, occasional child care or out-of-school-hours care, and
- b) Does not provide overnight accommodation for children other than those related to the owner or operator of the centre,

but does not include:

- c) A building or place used for home-based child care, or
- d) An out of home care service provided by an agency or organisation accredited by the NSW Office of the Children's Guardian, or
- e) A baby-sitting, playgroup or child-minding service that is organised informally by the parents of the children concerned, or
- f) A service provided for fewer than 5 children (disregarding any children who are related to the person providing the service) at the premises at which at least one of the children resides, being a service that is not advertised, or
- g) A regular child-minding service that is provided in connection with a recreational or commercial facility (such as a gymnasium), by or on behalf of the person conducting the facility, to care for children while the children's parents are using the facility, or
- h) A service that is concerned primarily with the provision of:
 - Lessons or coaching in, or providing for participation in, a cultural, recreational, religious or sporting activity, or
 - ii) Private tutoring, or
- i) A school, or
- j) A service provided at exempt premises (within the meaning of section 200 of the Children and Young Persons (Care and Protection) Act 1998), such as hospitals, but only if the service is established, registered or licensed as part of the institution operating on those premises.

Civil design means a design where the development includes any road, drain, excavation or fill placement which has been prepared by a civil engineer.

Civil engineer means a civil or structural engineer who is a member or is eligible for membership of a professional engineering institution, is university degree qualified with a minimum of five years relevant professional practice during the last ten years as a civil engineer, and is listed on the National Professional Engineers Register, and either has or is employed by a corporation which has professional indemnity insurance of not less than \$2 million, such insurance being evidenced to Council to be in force, for the year in which any information is submitted to the Council in accordance with this policy. The professional indemnity insurance must have retroactive cover extending back to at least the engineer's first submission to Council.

Clearing native vegetation-has the same meaning as in Part 5A of the Local Land Services Act 2013. -the Native Vegetation Act 2003 defined meaning any one or more of the following:

- a) Cutting down, felling, thinning, logging or removing native vegetation,
- b) Killing, destroying, poisoning, ringbarking, uprooting or burning native vegetation.



(See Division 3 of Part 3 of the Native Vegetation Act 2003 for the exclusion of routine agricultural management and other farming activities from constituting the clearing of native vegetation if the landholder can establish that any clearing was carried out for the purpose of those activities.)

Cliff face means the steep exposure of bedrock on a natural or coastal cliff or bluff resultant from the processes of weathering or ocean effects

Cliff top, on land adjacent to the foreshore, is defined as that position where a change in grade of the land is evident, downwards towards the cliff edge or face.

CMP means Conservation Management Plan.

Coastal building line is the distance a structure must be setback from the cliff top or foreshore lands.

Collection well means a tank used for the collection and temporary storage of effluent discharged from a septic tank.

Co-location (in relation to tele- and radio- communications facilities) is the practice of locating a number of different communications facilities, often owned by different carriers, on one facility or structure

Communal open space means useable shared open space within the proposed development for the recreation and relaxation of all residents of a residential or mixed use development.

Community facility has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a building or place:

- a) Owned or controlled by a public authority or non-profit community organisation, and
- b) Used for the physical, social, cultural or intellectual development or welfare of the community,
- But does not include an educational establishment, hospital, retail premises, place of public worship or residential accommodation.

Community sensitive locations: These may include areas:

- · Where occupants are located for long periods of time, for instance residences;
- That are frequented by children, for instance schools, child care centres;
- Where there are people with particular health concerns for instance hospitals, aged care centres; and
- Considered significant to indigenous communities.

Compensatory riparian restoration means restoration work with locally indigenous plant species on an area of riparian land located on Council owned land within the same catchment that is generally of similar size as the difference in square metres between the riparian corridor width provided as part of critical public road bridge design, and what would have been required by Chapter E23 Table 1 were it not for the exemption provided by Chapter E23 clause 9.6.

Complying development certificate (CDC) has the same meaning as in the Act. certificate that states a particular proposed development is complying development and (if carried out as specified in the certificate) will comply with all development control applicable to the development. A complying development certificate may be issued either by Council or an accredited certifier.

Consent authority has the same meaning as in the Act. - means Wollongong City Council.

Construction certificate (CC) has the same meaning as in the Act.—a certificate stating that construction drawings and specifications are consistent with the development consent and relevant construction standards such as the Building Code of Australia. A construction certificate may be issued either by the Council or an accredited certifier.



Construction dewatering is the removal of groundwater or surface water from a site in which development is occurring – in construction the water is pumped from wells or sumps to temporarily lower the groundwater levels to allow excavation in dry and stable conditions below natural groundwater level

Contaminated land means land in, on or under which any substance is present at a concentration above that naturally present in, on or under the land and that poses, or is likely to pose, an immediate or long term risk to human health or the environment.

Contaminated Land Planning Guidelines refers to guidelines notified in accordance with schedule 6 section 145C 3 of the Act Environmental Planning and Assessment Act 1979 (Managing Land Contamination: Planning Guidelines SEPP 55 — Remediation of Land).

Conveyance is a measure of the carrying capacity of the channel section. Flow is directly proportional to conveyance for steady flow. From Manning's equation, the proportionality factor is the square root of the energy slope.

Core riparian zone (CRZ) means the minimum land space measured from the top of the highest bank to be fully vegetated with well-structured local provenance native vegetation (including trees, shrubs and groundcovers), refer to relevant figure in chapter E23 Refer to Figure 1.

Corner allotment is a lot which has frontage to two roads on adjacent boundaries.

Corner apartment means le an apartment located in the corner position of a building which has frontage to two elevations.

Corner lot means les a lot which has a frontage to two roads on adjacent boundaries.

Council means Wollongong City Council.

Covenant refers to a restriction on the use of land recorded on the property title and binding upon successors in title under the Conveyancing Act 1919. Covenants may be either positive (imposing positive obligations) or negative (imposing restrictions).

Cover means the type and distribution of vegetation on catchment.

CPEng means Chartered Professional Engineer.

CPGeo means Chartered Professional Geologist.

Crematorium has the same meaning as in the Wollongong Local Environmental Plan 2009.

Means a building in which deceased persons or pets are cremated, and includes a funeral chapel.

Crime Prevention thought Environmental Design (CPTED) #Laims to reduce the opportunities for crime by increasing the effort and risk for offenders, as well as reducing the rewards. CPTED recognises that any design strategy needs to be part of a holistic approach to crime prevention, incorporating social, environment and community development strategies.

Critical depth: If discharge is held constant and the water depth allowed to decrease, as in the case of water approaching a free overfall, velocity head will increase, pressure head will decrease, and total energy will decrease toward a minimum value where the rate of the decrease in the pressure head is just counterbalanced by the rate of increase in velocity head. This is the critical depth. More generally, the critical depth is the depth of flow that would produce the minimum total energy head, and it depends on cross section geometry and water discharge.

Critical flow refers to the state of flow where the water depth is at the critical depth and when the inertial and gravitational forces are equal. When Froude N° = 1.0.

Cross over apartments means apartments with two opposite aspects and with a change in level between one side of the building and the other.

Cross through apartments means apartments on one level with two opposite aspects.

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Crown maintenance pruning is defined as in Australian Standard AS 4373 –2007 "Pruning of Amenity Trees" and generally involves a reduction in tree foliage and branches by up to 10 per cent in any one (1) year with no reduction in the height of the main trunk.

Culvert means an enclosed conduit (typically pipe or box) that conveys stormwater below ground.

Cumulative impact means the sum of the impacts from a number of different sources or over time

Curtilage has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: In relation to a heritage item or conservation area, means the area of land (including land covered by water) surrounding a heritage item, a heritage conservation area, or building, work or place within a heritage conservation area, that contributes to its heritage significance.

dBA means the decibels of the 'A-scale' – a set of frequency -weighted scale of noise which allows for lack of sensitivity of the ear to sound at very high and very low frequencies.

DCP means Development Control Plan.

Dead tree means any tree that is no longer capable of performing any one of the following processes:

- Photosynthesis;
- Take up of water through the root system;
- · Hold moisture in its cells; or
- · Produce new shoots.

DECC: Department of Environment and Climate Change.

Deck is an outdoor living area attached to a dwelling, which may be covered or uncovered, and is not capable of being used or adapted for use as habitable floor area.

Declared tree is defined as -

- a) Five (5) metres or more in height; or
- b) Have a diameter of 30 cm (300mm) or more measured at ground level.

Declared vegetation means any of the following types of vegetation:

- Native vegetation within areas mapped in the Wollongong Local Environmental Plan 2009
 Natural Resources Sensitivity layer, or
- Vegetation that represents habitat or likely habitat for threatened species populations and endangered ecological communities as defined within the *Biodiversity Conservation Act 2016* and/or *Environment Protection and Biodiversity Conservation Act 1999*, or
- Vegetation identified as a heritage item or within the curtilage of a heritage item, as identified under the Wollongong Local Environmental Plan 2009; or
- · Vegetation within an Aboriginal Place, or
- Vegetation within the core riparian zone of a riparian corridor as defined in Wollongong Local Environmental Plan 2009 and DCP 2009 Chapter E23 or considered waterfront land under the Water Management Act 2000.

Deep soil zone means a landscaped area with no buildings or structures above or below the ground which supports the growth of vegetation and allows for the natural infiltration of surface water into the soil. They exclude basement car parks, services, swimming pools, tennis courts and impervious surfaces including car parks, driveways and roof areas. refers to an area of the site that is not to be built upon, or underneath, thereby leaving an area of deep, soft soil for substantial deep-rooted vegetation, natural vegetation and natural drainage. This area may be



included in private open space but is not included in the minimum private open space area calculations.

Defined flood event (DFE) is the flood event chosen as the general standard for the management of flooding. The DFE applied within each catchment can be found in the relevant Floodplain Risk Management Study adopted by Council.

Demolish has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: In relation to a heritage item, or a building, work, relic or tree within a heritage conservation area, means wholly or partly destroy, dismantle or deface the heritage item or the building, work, relic or tree.

Demolition Plan means a plan and / written statement which outlines the procedures to be carried out for the demolition of a building or work.

Depot has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means a building or place used for the storage (but not sale or hire) of plant, machinery or other goods (that support the operations of an existing undertaking) when not required for use.

Design floor level is the minimum floor level specified to be above standard flood level (eg 0.5 metres above).

Designated development means development declared as 'designated development' by Schedule 3 of the *Environmental Planning and Assessment Regulation* 200021.

Detailed investigation refers to an investigation to define the extent and degree of contamination to assess potential risk posed by contaminants to human health and the environment and to obtain sufficient information for the development of a remedial action plan of required.

Detention is the temporary storage of stormwater generated within an allotment. This restricts the discharge from the site to a predetermined rate to reduce flooding both in the local drainage system immediately downstream of the site and along the creeks and watercourses further downstream.

Development has the same meaning as in Section 1.5 of the Act.—means the construction, alteration or demolition of buildings, including swimming pools, roads, dams, ponds and drains, and the excavation and/or filling of land or any other works that requires the prior approval of Gouncil.

Development opportunity envelope: Identifies a building envelope that ensures that development is not visible from important viewing locations for that section of the escarpment.

Development site refers to the lands within which the development (ie the subject of the Development Application) relates.

Discharge means the flow rate of water.

Discount supermarket means a supermarket that does not have a full range of groceries and food and where the products are sold for less than they are typically sold for at full line supermarkets. Discount supermarkets are classified as 'shops' under the LEP

Domestic greywater diversion means the installation and operation of a system for diverting greywater generated on sewered residential premises to a garden or lawn on those premises, but does not include the manual collection and re-use of greywater (for example, by means of a bucket or similar receptacle).

Domestic greywater treatment system (DGTS) means a system that collects, treats and disinfects greywater for re-use for toilet and urinal flushing, or for use in surface irrigation in dedicated non-trafficable areas or other land application systems.

Drainage has the same meaning as in the *Wollongong Local Environmental Plan 2009*. : Means any activity that intentionally alters the hydrological regime of any locality by facilitating the removal of surface or ground water. It may include the construction, deepening, extending, opening, installation or laying of any canal, drain or pipe, either on the land or in such a manner as to



encourage drainage of adjoining land.

Driveway crossing refers to a carriageway extending from the edge of the roadway frontage to the property boundary to connect to the first vehicular ramp or driveway encountered, and carrying one or two-way traffic.

Driveway refers to the carriageway contained within the development site, which carries one or two way traffic.

Dry or ephemeral detention basins are depressions that temporarily hold stormwater and release it at a slower rate than it comes in. They reduce flow velocities and so help prevent downstream erosion. They also reduce downstream flow rates. Dry or ephemeral detention areas improve stormwater quality primarily by allowing sedimentation of particle-based contaminants. They are termed 'dry or ephemeral' as their lowest point is located above the maximum groundwater level. They drain after each storm event to provide the full storage volume for the next one

Dual aspect development means apartments which have at least two major external walls facing in different directions, including corner, cross over and cross through apartments.

Dual occupancy has the same meaning as in the *Wollongong Local Environmental Plan 2009.* Means 2 dwellings (whether attached or detached) on one lot of land (not being an individual lot in a strata plan or community title scheme), but does not include a secondary dwelling.

DWE: Department of Water and Energy.

Dwelling house has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means a building containing only one dwelling.

Dwelling has the same meaning as in the *Wollongong Local Environmental Plan 2009*. • Means a room or suite of rooms occupied or used or so constructed or adapted as to be capable of being occupied or used as a separate domicile.

Earthworks has the same meaning as in the Wollongong Local Environmental Plan 2009. : means excavation or filling.

Ecologically sustainable development has the same meaning as in the Act—Environmental Planning and Assessment Act 1979 and the Protection of the Environment Administration Act 1991.

Educational establishment has the same meaning as in the *Wollongong Local Environmental Plan 2009*.—means a building or place used for education (including teaching), being:

- a) A school, or
- b) A tertiary institution, including a university or a TAFE establishment, that provides formal education and is constituted by or under an Act.

Effective warning time means the actual time available to people in the community to undertake appropriate actions (e.g. evacuate, or undertake damage reduction activities) after receiving advice of an impending flood and before the floodwaters prevent appropriate flood response actions being undertaken.

Effluent application field (EAF) area means the minimum required disposal field size (ie directly wetted area) that is to be constructed within the ESD (Ecological Sustainable Development) area and has been determined in accordance with AS/NZS-1547/2012 (2000), based on the ability of the site's soils to receive effluent without creating health risks or hydraulic failure.

Electricity generating works has the same meaning as in the Wollongong Local Environmental Plan 2009; Means a building or place used for the purpose of making or generating electricity.

Electromagnetic radiation (EMR) or electromagnetic energy (EME) means the radiation in the

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microwave and radiofrequency band of the electromagnetic spectrum.

Embankment means the low permeability earth fill wall of a dam comprising the crest, batter slopes and foundation.

Enclosed car parking means car parking that is potentially subject to rapid inundation, which consequently increases danger to human life and property damage (such as basement or bunded car parking areas). The following criteria apply for the purposes of determining what is enclosed car parking:

- a) Flooding of surrounding areas may raise water levels above the perimeter which encloses the car park (normally the entrance), resulting in rapid inundation of the car park to depths greater than 0.8m, and
- b) Drainage of accumulated water in the car park has an outflow discharge capacity significantly less than the potential inflow capacity

Engineering Geologist means a specialist engineering geologist who is university degree qualified, is a member or is eligible for membership of a professional institution and who has achieved chartered professional status being either CPEng or CPGeo or RPGeo with Landslide Risk Management as a core competence; with a minimum of five years practice during the last ten years as an engineering geologist in regions of the Sydney Basin underlain by Narrabeen or Coal Measures geological strata or who is able to demonstrate relevant experience with similar geology and either has or is employed by a corporation which has professional indemnity insurance of not less than \$2 million, such insurance being evidenced to Council to be in force, for the year in which any information is submitted to the Council in accordance with this policy. The professional indemnity insurance must have retroactive cover extending back to at least the engineer's first submission to Council.

Entertainment facility has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means a theatre, cinema, music hall, concert hall, dance hall and the like, but does not include a pub, nightclub or registered club.

Environmental facility has the same meaning as in the *Wollongong Local Environmental Plan 2009*.-means a building or place that provides for the recreational use or scientific study of natural systems, and includes walking tracks, seating, shelters, board walks, observation decks, bird hides or the like, and associated display structures.

Erosion means the process by which the detachment, entrainment, suspension, and transport of soil occurs by wind, water, or gravitational effects. Erosion leads to sedimentation.

Erosion and sediment control plan means a plan as described in 'Managing Urban Stormwater: Soils and Construction' prepared by Landcom (the Blue Book) (as amended from time to time).

Escarpment means a cliff or steep slope, of some extent, generally separating two level or gently sloping areas.

Essential watercourse crossing for public road infrastructure means a watercourse crossing identified within the current West Dapto Development Contributions Plan or within Chapter D16 of the Wollongong Development Control Plan 2009 or adopted as part of a Council endorsed Neighbourhood Plan or Planning Proposal.

Evapotranspiration (ET) Bed means a system of effluent disposal that uses the loss of water from the soil by evaporation and from plants by transpiration from beds that are essentially shallow trenches.

Excavation has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means the removal of soil or rock, whether moved to another part of the same site or to another site, but does not include garden landscaping that does not significantly alter the shape, natural form or drainage of the land.

Exempt development refers to development that is declared to be 'exempt' under Wollongong



Local Environmental Plan 2009 or another environmental planning instrument, such as State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Exhibition home has the same meaning as in the *Wollongong Local Environmental Plan 2009*. Means a dwelling built for the purposes of the public exhibition and marketing of New Dwellings, whether or not it is intended to be sold as a private dwelling after its use for those purposes is completed, and includes any associated sales or home finance office or place used for displays.

Exhibition village has the same meaning as in the *Wollongong Local Environmental Plan 2009*. Means 2 or more exhibition homes and associated buildings and places used for house and land sales, site offices, advisory services, car parking, food and drink sales and other associated purposes.

Existing ground level means the ground level in existence immediately prior to the commencement of proposed building or site works.

Extractive industry has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means the winning or removal of extractive materials (otherwise than from a mine) by methods such as excavating, dredging, tunnelling or quarrying, including the storing, stockpiling or processing of extractive materials by methods such as recycling, washing, crushing, sawing or separating, but does not include turf farming.

Extractive material has the same meaning as in the Wollongong Local Environmental Plan 2009. Means sand, soil, gravel, rock or similar substances that are not minerals within the meaning of the Mining Act 1992.

Farm stay accommodation has the same meaning as in the Wollongong Local Environmental Plan 2009. : Means tourist and visitor accommodation provided to paying guests on a working farm as a secondary business to primary production. "Extractive material" means sand, soil, gravel, rock or similar substances that are not minerals within the meaning of the Mining Act 1992.

Fill has the same meaning as in the *Wollongong Local Environmental Plan 2009*. the depositing of soil, rock or other similar extractive material obtained from the same or another site, but does not include:

- a) The depositing of topsoil or feature rock imported to the site that is intended for use in garden landscaping, turf or garden bed establishment or top dressing of lawns and that does not significantly alter the shape, natural form or drainage of the land, or
- b) The use of land as a waste disposal facility

Filling means the depositing of soil, rock or other material. Filling does not include the depositing of topsoil, or feature rock imported to the lot, that is intended for use in garden landscaping, turf or garden bed establishment or topdressing of lawns.

Final geotechnical certificate means a certificate prepared by a geotechnical engineer or engineering geologist in accordance with form M17 of this Plan M11 as outlined in Chapter E12 and as available on Councils website.

Final structural certificate means a certificate prepared by a structural engineer in accordance with form M16 of this policy as outlined in Chapter E12 and as available on Councils website.

Finished ground level means the level of the finished ground surface.

Flood awareness: An appreciation of the likely effects of flooding and knowledge of the relevant flood warning and evacuation procedures.

Flood compatible building components: A combination of measures incorporated in the design and /or construction of buildings or structures subject to flooding and the use of flood compatible materials for the reduction or elimination of flood damage.

Flood compatible materials: Materials used in building which are resistant to damage when



inundated.

Flood evacuation strategy: The strategy for the evacuation of areas within effective warning time during periods of flood as specified within any policy of Council, the FRMP, the relevant State government disaster plan or advice received from the State Emergency Service (SES) or as determined in the assessment and determination of individual proposals Development Applications.

Flood fringe areas means the remaining areas of flood prone land after floodway and flood storage areas have been identified

Flood hazard: The potential for damage to property or persons due to flooding.

Flood liable land is the area of land which is subject to inundation by the probable maximum flood (PMF).

Flood mitigation work has the same meaning as in the Wollongong Local Environmental Plan 2009.—means work designed and constructed for the express purpose of mitigating flood impacts. It involves changing the characteristics of flood behaviour to alter the level, location, volume, speed or timing of flood waters to mitigate flood impacts. Types of works may include excavation, construction or enlargement of any fill, wall, or levee that will alter riverine flood behaviour, local everland flooding, or tidal action so as to mitigate flood impacts.

Flood planning area has the same meaning as in the *Wollongong Local Environmental Plan 2009* is the area where flood related development controls apply. It includes land below the flood planning level (FPL) and may extend to include other areas of land where the high consequences in low probability events require additional flood related controls to reduce damages or to not alter the floodway in rarer flood events.

Flood planning levels means the flood planning level In the Wollongong LGA, the FPL is the level of a 1 % AEP flood event plus 0.5 metres freeboard, unless otherwise stated in an adopted Floodplain Risk Management Study and/or Floodplain Risk Management Plan

Flood prone land means land susceptible to flooding by the PMF event. Flood Prone Land is synonymous with flood liable land.

Flood Storage Areas: those part of the floodplain that is important for the temporary storage of floodwaters during the passage of a flood. The extent and behaviour of flood storage areas may change with flood severity, and loss of flood storage can increase the severity of flood impacts by reducing natural flood attenuation. Hence, it is necessary to investigate a range of flood sizes before defining flood storage areas.

Flood: Is a relatively high stream flow which overtops the natural or artificial banks in any part of a stream, river, estuary, lake or dam, and/or local overland flooding associated with major drainage as defined by the FRMM **FMM** before entering a watercourse, and/or coastal inundation resulting from super-elevated sea levels and/or waves overtopping coastline defences excluding tsunami.

Floodplain Development Manual (FDM) means the Floodplain Development Manual (2005) which has been superseded by the "Floodplain Risk Management Manual: The policy and manual for the management of flood liable land" dated June 2023. Refers to the NSW-State Government document dated April 2005 and titled "Floodplain Development Manual: The Management of Flood Liable Land."

Floodplain-Management Manual (FMM): Refers to the document dated January 2001, published by the New South Wales Government and entitled "Floodplain Management Manual: the management of flood liable land" which has been superceded by the "Floodplain Development Manual: the management of flood liable land April 2005".

Floodplain Risk Management Manual (FRMM) has the same meaning as contained in clause 5.21(5) of the *Wollongong Local environmental Plan 2009*.

Floodplain Risk Management Plan (FRMP) means a plan prepared for one or more floodplains

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in accordance with the requirements of the FRMM FMM or its predecessor.

Floodplain Risk Management Study (FRMS) means a study prepared for one or more floodplains in accordance with the requirements of the FRMM FMM or its predecessor.

Floodplain, synonymous with flood liable and flood prone land, is the area of land that is subject to inundation by the probable maximum flood (PMF)The portion of a river valley, adjacent to the river channel, which is covered with water when the river overflows during flood or inundation periods.

Floodways areas are areas of the floodplain where a significant discharge of water occurs during floods and they are often aligned with naturally defined channels. Floodways are areas that, even if only partially blocked would cause a significant redistribution of flow or a significant increase in flood levels.

Where not mapped in an adopted Flood Study or FRMS, floodway areas may be defined using Flood Function Guideline FB02 (June 2023) DPIE Floodway Definition Guidance (in Prep 2020) or using a velocity x depth product greater than 0.4m2/s. While the DPIE Floodway Definition Guidance is finalised, Floodway areas may also be defined using the guidance provided in Appendix D of Chapter E13.

NOTE: the Flood Function Guideline FB02 (June 2023) supersedes the DPIE Floodway Definition Guide (in preparation 2020). References to the superseded DPIE Floodway Definition Guide should be taken as meaning the Flood Function Guideline FB02 (June 2023).

Areas of the river channel and floodplain where a significant volume of water flows during flood periods. Floodways are areas which, even if only partially blocked would cause significant redistribution of flood flow, which may in turn adversely affect other areas. These areas are also generally characterised (but not always) by areas of deeper flow or the areas where higher velocities occur.

Floor Space Ratio (FSR) has the same meaning as in the Wollongong Local Environmental Plan 2009: Is the ratio of the gross floor area of a building to the area of the site on which it is situated.

Food and drink premises has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means retail premises used for the preparation and retail sale of food or drink for immediate consumption on or off the premises, and includes restaurants, cafes, take away food and drink premises, milk bars and pubs.

Foreshore area has the same meaning as in the Wollongong Local Environmental Plan 2009.

Means the land between the foreshore building line and the mean high water mark of the nearest

Foreshore building line has the same meaning as in the Wollongong Local Environmental Plan 2009. is a factor of safety expressed as a height above the design flood level. Freeboard provides a factor of safety to compensate for uncertainties in the estimation of flood levels across the floodplain, such as wave action, localised hydraulic behaviour and impacts that are specific event related, such as levee and embankment settlement, and other effects such as 'greenhouse' and climate change.

Freeboard is the height above the design flood used, in consideration of local and design factors, to provide reasonable certainty that the risk exposure selected in deciding on a particular design flood is actually provided. It is a factor of safety typically used in relation to the setting of flood levels, levee crest levels and so on. Freeboard compensates for a range of factors including wave action, localised hydraulic behaviour and levee settlement, all of which increase water levels or reduce the level of protection provided. Freeboard should not be relied upon to provide protection for flood events larger than the relevant defined flood event of a design flood.

Freeboard is included in the design flood planning level and therefore used in the derivation of the flood planning area.—is a factor of safety expressed as a height above the design flood level. Freeboard provides a factor of safety to compensate for uncertainties in the estimation of flood levels across the floodplain, such as wave action, localised hydraulic behaviour and impacts that are specific event related, such as levee and embankment settlement, and other effects such as



'greenhouse' and climate change.

Frontage refers to the street alignment at the front of a lot.

Froude Nº is a measure of flow instability - below a value of one, flow is tranquil and smooth, above one, flow tends to be rough and undulating (as in rapids).

Full line supermarket means a supermarket with a full range of goods, including packaged groceries, fresh meat, bakery and deli department, fresh fruit and vegetables and frozen foods, that has a gross floor area greater than 2,500sqm. Full-line supermarkets are classified as 'shops' under the LEP.

Funeral home has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means premises used to arrange and conduct funerals and memorial services, and includes facilities for the short-term storage, dressing and viewing of bodies of deceased persons and premises with mortuary facilities.

Gate valve means a stop cock used to prevent the flow of effluent at the collection side of the suction line.

Geotechnical engineer means a specialist geotechnical engineer who is university degree qualified, is a member of or is eligible for membership of a professional engineering institution and who has achieved chartered professional status being either CPEng or CPGeo or RPGeo with Landslide Risk Management as a core competence; with a minimum of five years practice during the last 10 years as an geotechnical engineer in regions of the Sydney Basin underlain by Narrabeen or Coal Measures geological strata or who is able to demonstrate relevant experience with similar geology and either has or is employed by a corporation which has professional indemnity insurance of not less than \$2 million, such insurance being evidenced to Council to be in force, for the year in which any information is submitted to the Council in accordance with this policy. The professional indemnity insurance must have retroactive cover extending back to at least the engineer's first submission to Council.

Geotechnical hazards means a condition with the potential for causing the movement of soil, rock or debris which may cause injury or death to persons or damage to, or destruction of property.

Geotechnical report means a report prepared by and/or technically verified by a geotechnical engineer or engineering geologist as defined by this DCP, which incorporates each of the elements, where applicable to the type of development, described in section 5.2 'Requirements for the preparation of geotechnical reports' of this policy Chapter E12.

Geotechnical: Relating to Engineering and the materials of the earth crust.

Government infrastructure projects means infrastructure projects undertaken by public authorities.

Gradient is the slope or rate of fall of land/pipe/stream.

Groundwater refers to any water occurring in or obtained from an aquifer and includes any matter dissolved or suspended in any such water. Its presence at a particular depth may be temporary or permanent. During construction, any water that resides below the natural ground surface is classified as groundwater.

Granny flat has the same meaning as a secondary dwelling as in the *Wollongong Local Environmental Plan 2009*. means the smaller of two dwellings, where:

- a) The dwellings are both on the same lot and no other dwelling is on that lot;
- b) At least one of the dwellings is occupied by the owner of the lot on which the dwellings stand.

Green roof means a roof surface that supports the growth of vegetation, comprised of a waterproofing membrane, drainage layer, organic growing medium (soil) and vegetation. Green roofs can be classified as either extensive or intensive, depending on the depth of substrate used



and the level of maintenance required. Intensive green roofs are generally greater than 300mm deep and are designed as accessible landscape spaces with pathways and other features. Extensive green roofs are generally less than 300mm deep and are generally not trafficable.

Green wall: There are two main types of green walls: green facades and living walls. Green facades are simple systems where plants are grown directly into soil and trained up a frame or trellis system to cover the wall. Living walls are more complex systems where panels or pockets of vegetation are fixed directly to the wall. This is through the use of a suitable growing medium and a hydroponic system. The use of soil in a living wall is generally minimal and plants are fed primarily through nutrients in the irrigation water.

Greywater (Sullage) means domestic wastewater excluding toilet waste and may include wastewater arising from a hand basin, shower, bath, spa bath, clothes washing machine, laundry tub, dishwasher and kitchen sink.

Greywater Diversion Device (GDD) is a device that diverts (or diverts and collects), and directs untreated greywater to a sub-surface irrigation area.

Gross floor area (GFA) has the same meaning as in the Wollongong Local Environmental Plan 2009. means the sum of the floor area of each floor of a building measured from the internal face of external walls, or from the internal face of walls separating the building from any other building, measured at a height of 1.4 metres above the floor, and includes:

- a) The area of a mezzanine, and
- b) Habitable rooms in a basement or an attic, and
- c) Any shop, auditorium, cinema, and the like, in a basement or attic,

but excludes:

- a) Any area for common vertical circulation, such as lifts and stairs, and
- b) Any basement:
 - i) Storage, and
 - ii) Vehicular access, loading areas, garbage and services, and
- Plant rooms, lift towers and other areas used exclusively for mechanical services or ducting, and
- d) Car parking to meet any requirements of the consent authority (including access to that car parking), and
- e) Any space used for the loading or unloading of goods (including access to it), and
- f) Terraces and balconies with outer walls less than 1.4 metres high, and
- g) Voids above a floor at the level of a storey or storey above.

Ground level (Existing) has the same meaning as in the *Wollongong Local Environmental Plan* 2009. -means the existing level of a site at any point.

Ground level (Finished) has the same meaning as in the *Wollongong Local Environmental Plan 2009*. -means, for any point on a site, the ground surface after completion of any earthworks (excluding any excavation for a basement, footings or the like) for which consent has been granted or that is exempt development.

Ground level (mean) has the same meaning as in the *Wollongong Local Environmental Plan* 2009. means, for any site on which a building is situated or proposed, one half of the sum of the highest and lowest levels at ground level (finished) of the outer surface of the external walls of the



building.

Groundwater means the body of water that fills the pore spaces of the soil and subsoil and includes seepage from springs.

Group home has the same meaning as in the *Wollongong Local Environmental Plan 2009*.
• Means a dwelling that is a permanent group home or a transitional group home.

Gross pollutants include for example: trash, litter, and vegetation.

Gross pollutant trap (GPT) is a device that traps and removes litter and sediments greater than 5 millimetres in size from stormwater runoff. By removing large pollutants, downstream treatment of stormwater can occur more effectively.

Groundwater management system means the processes or practices used to control groundwater.

Gully means a narrow ravine, small valley.

Habitable floor area means:

- In a residential situation: a living or working area, such as a lounge room, dining room, rumpus room, kitchen, bedroom or workroom;
- In an industrial or commercial situation: an area used for offices or to store valuable
 possessions susceptible to flood damage in the event of a flood.

Habitable room has the same meaning as in the National Construction Code a room used for normal domestic activities, and:

- Includes a bedroom, living room, lounge room, music room, television room, kitchen, dining room, sewing room, study, playroom, family room and sunroom; but
- Excludes a bathroom, water closet, pantry, walk-in wardrobe, corridor, hallway, lobby, photographic darkroom, clothes drying room and other spaces of a specialised nature occupied neither frequently nor for extended periods.

Habitable roof space is space within the roof a building which can be used for residential purposes, where the height of the building does not exceed the ridge height specified in the height table.

Habitat tree means any tree which is a nectar feeding tree, roost and nest tree or a hollow-bearing tree has developed hollows in the trunk or limbs and which is suitable for nesting birds, arboreal marsupials (possums), micro-bats or which support the growth of locally indigenous epiphytic plants such as orchids.

Hazard is a source of potential harm or a situation with a potential to cause loss. In relation to this plan, the hazard is flooding which has the potential to cause harm or loss to the community.

Headwall means a wall constructed around inlet or outlet of a culvert.

Health consulting rooms has the same meaning as in the *Wollongong Local Environmental Plan* 2009. —means a medical centre that comprises one or more rooms within (or within the curtilage of) a dwelling house used by not more than 3 health care professionals who practise in partnership (if there is more than one such professional) who provide professional health care services to members of the public.

Health services facility has the same meaning as in the Wollongong Local Environmental Plan 2009. —means a building or place used as a facility to provide medical or other services relating to the maintenance or improvement of the health, or the restoration to health, of persons or the prevention of disease in or treatment of injury to persons, and includes the following:

a) Day surgeries and medical centres,



- b) Community health service facilities,
- c) Health consulting rooms,
- d) Facilities for the transport of patients, including helipads and ambulance facilities,
- e) Hospitals.

Heavy industry has the same meaning as in the Wollongong Local Environmental Plan 2009. Means an industry that requires separation from other land uses because of the nature of the processes involved, or the materials used, stored or produced. It may consist of or include a hazardous or offensive industry or involve the use of a hazardous or offensive storage establishment.

Height means the number of storeys in a building which can be intersected by the same vertical line.

Height (in relation to tree management) means the distance measure vertically between the horizontal plane of the lowest point of the base of the tree which is immediately above ground and the horizontal plane of the uppermost point of the tree.

Heritage conservation area has the same meaning as in the *Wollongong Local Environmental Plan 2009*. : Means any area listed in Schedule 5 Part 2 of *Wollongong Local Environmental Plan 2009*.

Heritage conservation management plan has the same meaning as in the Wollongong Local Environmental Plan 2009.—means a document prepared in accordance with guidelines prepared by the Department of Planning that documents the heritage significance of an item, place or heritage conservation area and identifies conservation policies and management mechanisms that are appropriate to enable that significance to be retained.

Heritage impact statement has the same meaning as in the *Wollongong Local Environmental Plan 2009*. - means a document consisting of:

- A statement demonstrating the heritage significance of a heritage item, archaeological site, place of Aboriginal heritage significance or other heritage conservation area, and
- b) An assessment of the impact that proposed development will have on that significance, and
- c) Proposals for measures to minimise that impact.

Heritage item has the same meaning as in the *Wollongong Local Environmental Plan 2009*. Means a building, work, archaeological site or place listed in Schedule 1 of Wollongong Local Environmental Plan 1990 and the site of which is described in Schedule 1 and shown edged heavy black or edged broken heavy black on the heritage map.

Heritage management document has the same meaning as in the *Wollongong Local Environmental Plan 2009*

Heritage significance has the same meaning as in the *Wollongong Local Environmental Plan* 2009. means historical, scientific, cultural, social, archaeological, architectural, natural or aesthetic value.

Highway service centre has the same meaning as in the *Wollongong Local Environmental Plan* 2009.—means a building or place used as a facility to provide refreshments and vehicle services to highway users, and which may include any one—or more of the following:

- a) Restaurants or take away food and drink premises,
- b) Service stations and facilities for emergency vehicle towing and repairs,
- c) Parking for vehicles,



d) Rest areas and public amenities.

Home-based child care has the same meaning as in the *Wollongong Local Environmental Plan* 2009. means a dwelling used by a resident of the dwelling for the supervision and care of one or more children and that satisfies the following conditions:

- The service is appropriately licensed within the meaning of the Children and Young Persons (Care and Protection) Act 1998,
- b) The number of children (including children related to the carer or licensee) does not at any one time exceed 7 children under the age of 12 years, including no more than 5 who do not ordinarily attend school.

Home employment: Means an occupation which is carried on in, or from a dwelling, or within or from the curtilage of a dwelling-house or residential apartment building, by the permanent residents of the dwelling, and which does not involve any of the following

- a) The employment on the premises of persons other than those residents;
- Interference with the amenity of the neighbourhood by reason of the emission of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products or grit, oil or otherwise;
- c) The display of goods, whether in a window or otherwise;
- d) The exhibition of any notice, advertisement or sign (other than a notice, advertisement or sign exhibited to indicate the name and occupation of those residents);
- e) The use of the premises as a brothel or bed and breakfast accommodation.

Home business has the same meaning as in the Wollongong Local Environmental Plan 2009.÷ Means a business carried on in a dwelling, or in a building ancillary to a dwelling, by one or more permanent residents of the dwelling that does not involve:

- a) The employment of more than 2 persons other than those residents, or
- b) Interference with the amenity of the neighbourhood by reason of the emission of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit or oil, traffic generation or otherwise, or
- The exposure to view, from any adjacent premises or from any public place, of any unsightly matter, or
- d) The exhibition of any notice, advertisement or sign (other than a notice, advertisement or sign exhibited on that dwelling to indicate the name of the resident and the business carried on in the dwelling), or
- e) The sale of items (whether goods or materials), or the exposure or offer for sale of items, by retail, except for goods produced at the dwelling or building,

but does not include bed and breakfast accommodation, home occupation (sex services) or sex services premises.

Home industry has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a light industry carried on in a dwelling, or in a building ancillary to a dwelling, by one or more permanent residents of the dwelling that does not involve:

- a) The employment of more than 2 persons other than those residents, or
- b) Interference with the amenity of the neighbourhood by reason of the emission of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit or oil, traffic generation or otherwise, or



- The exposure to view, from any adjacent premises or from any public place, of any unsightly matter, or
- d) The exhibition of any notice, advertisement or sign (other than a notice, advertisement or sign exhibited on that dwelling to indicate the name of the resident and the light industry carried on in the dwelling), or
- e) The sale of items (whether goods or materials), or the exposure or offer for sale of items, by retail, except for goods produced at the dwelling or building, but does not include bed and breakfast accommodation or sex services premises.

Home occupation has the same meaning as in the Wollongong Local Environmental Plan 2009. : Means an occupation carried on in a dwelling, or in a building ancillary to a dwelling, by one or more permanent residents of the dwelling that does not involve:

- a) The employment of persons other than those residents, or
- b) Interference with the amenity of the neighbourhood by reason of the emission of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit or oil, traffic generation or otherwise, or
- c) The display of goods, whether in a window or otherwise, or
- d) The exhibition of any notice, advertisement or sign (other than a notice, advertisement or sign exhibited on that dwelling to indicate the name of the resident and the occupation carried on in the dwelling), or
- The sale of items (whether goods or materials), or the exposure or offer for sale of items, by retail.

but does not include bed and breakfast accommodation, a brothel or home occupation (sex services).

Home occupation (sex services) has the same meaning as in the *Wollongong Local Environmental Plan 2009*: Means the provision of sex services in a dwelling that is a brothel, or in a building that is a brothel and is ancillary to such a dwelling, by no more than 2 permanent residents of the dwelling and that does not involve:

- a) The employment of persons other than those residents, or
- b) Interference with the amenity of the neighbourhood by reason of the emission of noise, traffic generation or otherwise, or
- c) The exhibition of any notice, advertisement or sign, or
- d) The sale of items (whether goods or materials), or the exposure or offer for sale of items, by retail, but does not include a home business or sex services premises.

Hoardings are structures or fences erected on or adjacent to a property to form barrier between demolition and construction sites and the public domain. Hoarding structures may consist of fencing, scaffolding and / or overhead structures as either individual elements or integrated together to form a uniform hoarding.

- A "Type A Hoarding" is a hoarding comprising of a fence.
- A "Type B Hoarding" is an overhead structure situated over footpaths.
- A "Type C Hoarding" is a full- face scaffold.

Hotel or motel accommodation has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means tourist and visitor accommodation (whether or not licensed premises under the Liquor Act 1982):



- a) Comprising rooms or self-contained suites, and
- b) That may provide meals to guests or the general public and facilities for the parking of guests' vehicles:

but does not include backpackers' accommodation, a boarding house, bed and breakfast accommodation or farm stay accommodation.

Hydraulic means A term given to the study of water flow, as relates to the evaluation of flow depths, levels and velocities.

Hydrograph is a graph of flood flow against time.

Hydrology means A term given to the study of rainfall and runoff processes as relates to the derivation of flood discharges.

Hyetograph is a graph of rainfall intensity against time.

IFD: Intensity - Frequency – Duration Rainfall parameters used to describe rainfall at a particular location.

Industry has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means the manufacturing, production, assembling, altering, formulating, repairing, renovating, ornamenting, finishing, cleaning, washing, dismantling, transforming, processing or adapting, or the research and development of any goods, chemical substances, food, agricultural or beverage products, or articles for commercial purposes, but does not include extractive industry or a mine.

Infill development refers to new urban development within an existing urban development area.

Infill development (in relation to heritage conservation) refers to new urban development within an existing urban development area. It refers to the design technique that allows a new building to be established amongst those of a traditional style without detracting from the sense of continuity of the existing heritage streetscape.

Infill residential subdivision is the subdivision of a lot of land which has a residential zoning and which is bounded by existing residential development.

Information and education facility has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means a building or place used for providing information or education to visitors, and the exhibition or display of items, and includes an art gallery, museum, library, visitor information centre and the like.

Integrated housing means development that consists of:

- The Torrens Title or Community Title subdivision of land into 5 or more lots; and
- The erection of a single dwelling-house on each of the lots created by that subdivision;

Where approval is given concurrently for the subdivision and development of the lots.

Investigation area means land declared to be an 'investigation area' by a declaration under Division 2 of Part 3 of the Contaminated Land Management Act 1997.

Investigation order means an order issued by the NSW Department of Environment & Climate Change under Division 2 of Part 3 of the Contaminated Land Management Act 1997.

Impervious areas mean areas which have no or extremely limited ability to transmit fluids from the surface through to the subsurface. Impervious areas occur where the soil surface is sealed, eliminating rainwater infiltration and natural groundwater recharge. They consist mainly of artificial structures such as pavements, rooftops, sidewalks, roads, and parking lots covered by materials such as asphalt, concrete, brick and stone. Soils compacted by urban development are also highly impervious.



Impervious surfaces are the hard surfaces (for example roofs and pavement) within a catchment.

Irregular shaped allotment means an allotment which is not square or rectangular in shape.

Isohyets refers to lines joining points of equal rainfall.

Isolated lot means a lot which is bounded on both sides by properties (or a property and second street frontage) which comprises existing or proposed multi unit development other than a single dwelling house.

Land application area means the area of land intended for the disposal of effluent and includes the ecological sustainable development area.

Land reshaping means involves a combination of filling and excavation.

Landscaped area has the same meaning as in the *Wollongong Local Environmental Plan 2009*. It refers to Means a part of a site used for growing plants, such as grasses, shrubs and trees, but does not include any building, structure or hard paved area and which is no less than 1.5m measured in any direction. The landscaped area consists of any part of the site which is not occupied by any building, basement or hard surface such as driveways, parking areas or paved areas of courtyards, decks, balconies or terraces. The landscaped area may also include landscaping on a podium, where that section of the podium is less or equal to than 1.2 metres in height and the minimum soil standards set out in Chapter E06 Landscaping below of this chapter of DCP (clause 6.4.2) are achieved. Any landscaped area on the site which is less than 1.5 metres in width is not included within the landscaped area calculations.

Living area means a principle living space such as a living room, dining room, family room, kitchen, rumpus room or the like which is used for normal domestic activities. It does not include a bedroom, study, bathroom, laundry, utility room or room serving a similar function.

Local overland flooding means inundation by local runoff rather than overbank discharge from a stream, river, estuary, lake or dam.

Long-term site means a dwelling site in a caravan park that is designated as being a long-term site (ie for periods in excess of 3 months).

Lot refers to an individual parcel of subdivided land.

Low flow channel means the channel within a watercourse in which water is contained during periods of dry weather, base or environmental flow when the watercourse is not in flood. The low flow is usually not constant but varies with groundwater levels and long term weather conditions.

Low impact facility means a telecommunications facility that is exempt from state and council local planning requirements under the Commonwealth Telecommunications (Low Impact Facilities) Determination 2018 (Low impact Facilities) Determination 1997

Maintenance has the same meaning as in the Wollongong Local Environmental Plan 2009. :-In relation to a heritage item or a building, work, archaeological site, tree or place within a heritage conservation area, means ongoing protective care. It does not include the removal or disturbance of existing fabric, alterations, such as carrying out extensions or additions, or the introduction of new materials or technology.

Major section is defined as a 'single portion of a manufactured home or relocatable home, being a portion:

- That contains a total living space (excluding the living space contained in any associated structure) of at least 20 cubic metres and
- b) That comprises all the major components of that portion of the home, including the chassis or frame, the external and internal walls, the roof and ceilings, the floors, the windows and doors, the internal plumbing and wiring, the tiling, the kitchen, bathroom and laundry fittings (other than stoves, refrigerators, washing machines and other whitegoods) and the built-in cupboards



and cabinets.

Major retail means a single shop or retail tenancy with a gross floor area generally greater than 1,000sqm. Major retail generally occupies the largest space of any single tenancy in a centre and is considered the major anchor.

Managing urban stormwater: Soils and Construction (the Blue Book) refers to the document dated 2004 and developed by Landcom. This is commonly referred to as the Blue Book as amended or superseded.

Manning's n is a measure of channel or pipe roughness.

Manufactured home estate means land on which manufactured homes are or are to be erected.

Manufactured home has the same meaning as in the Local Government Act 1993. Means a selfcontained dwelling (that is a dwelling that includes at least one kitchen, bathroom, bedroom and living area and that also includes toilet and laundry facilities) being a dwelling:

Market has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means retail premises comprising an open-air area or an existing building used for the purpose of selling, exposing or offering goods, merchandise or materials for sale by independent stall holders, and includes temporary structures and existing permanent structures used for that purpose on an intermittent or occasional basis.

Mean high water mark has the same meaning as in the Wollongong Local Environmental Plan 2009. : Means the position where the plane of the mean high water level of all ordinary local high tides intersects the foreshore, being 1.44m above the zero of Fort Denison Tide Gauge and 0.515m Australian Height Datum.

Medical centre has the same meaning as in the Wollongong Local Environmental Plan 2009. ÷ Means business premises used for the purpose of providing health services (including preventative care, diagnosis, medical or surgical treatment, counselling or alternative therapies) to out-patients only, where such services are principally provided by health care professionals, and may include the ancillary provision of other health services.

Merit approach is an approach, the principles of which are embodied in the FRMM FMM-which weighs social, economic, ecological and cultural impacts of land use options for different flood prone areas together with flood damage, hazard and behaviour implications, and environmental protection and well being of the State's rivers and floodplains.

Micromobility devices are small, lightweight, power-assisted vehicles operating at low speeds, to carry one person plus a child or other passenger, or a small load, for example, e-bikes and escooters

Mini major retail means a single shop of tenancy with a gross floor area generally greater than 400sqm. Mini Majors offer a wide range of a particular retail type (electronics, sports equipment, pharmaceuticals or books). Mini Majors can be significant anchors for a centre.

Minimal harm (in relation to Chapter E3) see Minimum requirements for building site groundwater investigations and reporting (DPE 2022)

Minor development (in relation to stormwater management) means developments discharging less than 55L/S and discharging to kerb.

Mixed use development has the same meaning as in the Wollongong Local Environmental Plan 2009. : Means a development which includes residential uses in conjunction with one or more

- Business premises;
- Commercial offices:
- Shops or other retail premises;

In Force: DRAFTDRAFT



- Community facilities;
- · Entertainment facilities: or
- Refreshment rooms.

Model for urban stormwater improvement conceptualisation (MUSIC) is a modelling tool for both simple and highly complex urban stormwater systems using WSUD.

Mound system means a raised effluent application system that is used where natural soils are extremely permeable and/or underlying groundwaters are seasonally close to the ground surface.

Moveable dwelling has the same meaning as in the Local Government Act 1993. ∴ Is defined as:

- a) Any tent or any caravan or other van or portable device (whether on wheels or not) used for human habitation or
- b) A manufactured home, or
- Any conveyance, structure or thing of a class or description prescribed by the regulations for the purposes of this definition.

Multi dwelling housing has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means 3 or more dwellings (whether attached or detached) on one lot of land (not being an individual lot in a strata plan or community title scheme) each with access at ground level, but does not include a residential flat building.

Native flora has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means any plant life that is indigenous to New South Wales, whether vascular or non-vascular and in any stage of biological development, and includes fungi and lichens, and marine vegetation within the meaning of Part 7A of the Fisheries Management Act 1994.

Native vegetation has the same meaning as in Part 5A of the Local Land Services Act 2013.: Has the same meaning as in the Native Vegetation Act 2003 defined as follows:

- a) Native vegetation means any of the following types of indigenous vegetation:
 - i) Trees (including any sapling or shrub, or any scrub),
 - ii) Understorey plants,
 - iii) Groundcover (being any type of herbaceous vegetation),
 - iv) Plants occurring in a wetland.
- b) Vegetation is indigenous if it is of a species of vegetation, or if it comprises species of vegetation, that existed in the State before European settlement.
- c) Native vegetation does not include any mangroves, seagrasses or any other type of marine vegetation to which section 205 of the Fisheries Management Act 1994 applies.

Natural ground level means the level of the ground surface prior to commencement of any construction work on the site.

Natural ventilation refers to a range of techniques that combine natural airflow within building design characteristics to induce fresh air into a building and exhaust stale air. Natural ventilation is also used as a means to reduce the temperature of a building's thermal mass.

Net floor area means the whole of the lettable floor area of a building where the area of each floor is taken to be the floor area within the internal faces of the outside walls, excluding staircases, amenities, lifts, corridors and other public areas but including any storage areas.



Non-potable water means water that is not fit or suitable for drinking and consumption purposes but may be used for purposes such as laundry, toilet flushing and air conditioning cooling towers. Non-potable water can be sourced from rainwater, stormwater, and recycled sewage. The source determines appropriate uses, with rainwater having more fit-for-purpose uses than the other two sources, subject to treatment methods.

Normal depth means the depth that would exist if the flow were uniform.

Noxious weed means a plant declared noxious under the Noxious Weeds Act 1993. Biosecurity Security Act 2015.

Occupation certificate is a certificate issued by the Principal Certifying Authority that authorises the occupation and use of a new building or a change of building use for an existing building.

Offensive industry has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means any development for the purpose of an industry that would, when the development is in operation and when all measures proposed to reduce or minimise its impact on the locality have been employed (including, for example, measures to isolate the development from existing or likely future development on other land in the locality), emit a polluting discharge (including, for example, noise) in a manner that would have a significant adverse impact in the locality or on the existing or likely future development on other land in the locality.

Office premises has the same meaning as in the Wollongong Local Environmental Plan 2009. means a building or place used for the purpose of administrative, clerical, technical, professional or similar activities that do not include dealing with members of the public at the building or place on a direct and regular basis, except where such dealing is a minor activity (by appointment) that is ancillary to the main purpose for which the building or place is used.

On-site sewage management system (OSSM) or on-site wastewater management (OSWM) System means an on-site system used for the purpose of holding or processing or reusing or otherwise disposing of sewage or by-products of human waste.

On-site stormwater detention (OSD) is a stormwater management practice which limits the rate of discharge from a site using outlet restriction devices. Stormwater flows in excess of the capacity of the outflow control device are temporarily stored either in tanks or surface depressions until the storm event recedes. Stormwater flows are released at a controlled rate into the public drainage system.

On-site stormwater retention is a stormwater management practice where on-site stormwater run off is actually captured and retained within the site for re0use or infiltration and is not released to the downstream drainage system.

Orographic: Pertaining to changes in relief, i.e. mountains.

Orthophoto: Aerial photograph with land contours, boundaries or reference grids added.

Outbuilding means a building which is ancillary to a principal residential building and includes sheds, detached garages, car ports and other buildings.

Overland flow means runoff from rainfall that flows over the land before entering a watercourse, creek, river, lake or dam. Overland flow can flow down roads, driveways and through homes and buildings. It is typically shallow and fast flowing.

Parapet height: The parapet level is the horizontal plane in which at least 2/3 of the length of the top of the façade of the building adjacent to the street is situated.

Parking space means a space dedicated for the parking of a motor vehicle, including any manoeuvring space and access to it, but does not include a car park.

Passive solar energy systems are systems which combine the sun's energy with local climate characteristics, to achieve thermal comfort inside buildings without the use of mechanical devices.



PCA: Means principal certifying authority.

Piezometer means a borehole constructed with 100mm PVC perforated piping to a depth below the subsoil horizon or to the top of unweathered rock formation or below the water table, used to monitor groundwater quality.

Place of public worship has the same meaning as in the Wollongong Local Environmental Plan 2009. :-Means a building or place used for the purpose of religious worship by a congregation or religious group, whether or not the building or place is also used for counselling, social events, instruction or religious training.

Pluviograph is an instrument which records rainfall collected as a function of time.

PMF: Probable Maximum Flood: Flood calculated to be the maximum ever likely to occur.

PMP: Probable Maximum Precipitation: Rainfall calculated to be the maximum ever likely to occur.

Pond-based aquaculture has the same meaning as in the *Wollongong Local Environmental Plan* 2009. —Means aquaculture undertaken in structures that are constructed by excavating and reshaping earth, which may be earthen or lined, and includes any part of the aquaculture undertaken in tanks, such as during the hatchery or pre-market conditioning phases, but does not include natural water-based aquaculture.

NOTE. Typical pond-based aquaculture is the pond culture of prawns, yabbies or silver perch.

Practical (in relation to floodplain management) that which in the opinion of Council can be achieved within the design of the development, while not necessitating:

- a) floor levels to be raised in a way that would unreasonably hinder access to and from existing floor levels or ground levels on the same site or adjacent public areas; and
- b) the raising of a structure to a height that would result in unacceptable impacts on the amenity of adjacent residential properties; and
- the height or presentation of a building that would be inconsistent with the existing or planned streetscape.

Peripheral sales precincts provide a range of facilities and services, light industries, warehouses and offices, as well as large format retail in the form of specialised retail premises. Peripheral Sales Precincts are to be compatible and not compete with land uses in surrounding Centres. These precincts provide for land uses that meet the needs of the community, business and industry but are not suited to locations in other employment zones

Potable water refers to water that is safe for human consumption and can be used for drinking, cooking and personal hygiene. Potable water must meet strict safety standards set out by the Australian Government.

Preliminary investigation is an investigation to identify any past or present potentially contaminated activities and the preliminary assessment of any contaminants within the soil strata or groundwater table.

Premises manager (in relation to sex service premises) means the manager of the sex services business.

Premises operator (in relation to sex service premises) means the owner of the sex services business.

Premises owner (in relation to sex service premises) means the registered owner(s) of the premise

Primary frontage means:



- a) The single frontage where an allotment has a single frontage to a road;
- b) The shortest frontage where an allotment has two or more frontages to the public road;
- The two frontages where an allotment (not including a corner allotment) runs between two roads.

Principal certifying authority (PCA): The certifying authority appointed by the applicant to oversee the construction process. Only the Principal Certifying Authority may issue an Occupation Certificate

Private land means any land in private ownership by individuals or companies but excludes land owned or in the care, control or management of Council, a Crown Authority, government department or statutory authority.

Private open space has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means an area external to a building (including an area of land, terrace, balcony or deck) that is used for private outdoor purposes ancillary to the use of the building.

Probability (in relation to floodplain management) is a statistical measure of the expected chance of flooding (see ARI).

Probable maximum flood (PMF) means the largest flood that has been calculated to occur at a particular location, usually estimated from the probable maximum precipitation.

Probable maximum precipitation (PMP) means the greatest depth of precipitation for a given duration meteorologically possible over a given size storm area at a particular location at a particular time of the year with no allowance made for long term climatic trends. PMP is the primary input to the estimation of the probable maximum flood (PMF).

Prominent ridgeline or hilltop means a ridgeline, hilltop or slope which when viewed from a public place such as an arterial road, is a prominent feature of the natural landscape of a locality.

Prostitution means the provision of a sexual act or sexual service in return for payment or reward.

Pruning is defined as all other pruning which is not "crown maintenance pruning" and includes "crown modification" as defined in Australian Standard AS 4373- 1996 "Pruning of Amenity Trees".

Public domain means land in public ownership which is utilised by the community at large for footpath, public open space or similar purposes.

Public land has the same meaning as in the *Local Government Act 1993*—defined as any land (including a public reserve) vested in or under the control of the council, but does not include:

- a) A public road, or
- b) Land to which the Crown Lands Act 1989 applies, or
- c) A common, or
- d) Land subject to the Trustees of Schools of Arts Enabling Act 1902, or
- e) A regional park under the National Parks and Wildlife Act 1974.

Public reserve has the same meaning as in the Local Government Act 1993.

Public road has the same meaning as public road under the Roads Act 1993.

Qualified arborist: A qualified Arborist is a person who is eligible for membership as a 'Consulting Arborist' with the National Arborists Association of Australia or the Institute of Australian Consulting Arboriculturalists and who has obtained a Level 5 Certificate of Horticulture / Aboriculture or equivalent.



Radiation protection standard means The ARPANSA (2021) Standard for Limiting Exposure to Radiofrequency Fields – 100 KHz to 300 GHz

Radiocommunications facility means a base station or radiocommunications link, satellite-based facility or radiocommunications transmitter.

Rainwater tank means a reservoir or container that is used to collect and store (harvest) rain that runs off impervious surfaces such as roofs, via gutters and downpipes.

RCP means Reinforced Concrete Pipe.

Receiving waters: A river, lake or the ocean.

Recreation area has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means a place used for outdoor recreation that is normally open to the public, and includes:

- a) A children's playground, or
- b) An area used for community sporting activities, or
- c) A public park, reserve or garden or the like, and any ancillary buildings, but does not include a recreation facility (indoor), recreation facility (major) or recreation facility (outdoor).

Recreation facility (indoor) has the same meaning as in the *Wollongong Local Environmental Plan 2009*. means a building or place used predominantly for indoor recreation, whether or not operated for the purposes of gain, including a squash court, indoor swimming pool, gymnasium, table tennis centre, health studio, bowling alley, ice rink or any other building or place of a like character used for indoor recreation, but does not include an entertainment facility, a recreation facility (major) or a registered club.

Recreation facility (major) has the same meaning as in the *Wollongong Local Environmental Plan 2009*. —means a building or place used for large-scale sporting or recreation activities that are attended by large numbers of people whether regularly or periodically, and includes sports stadiums, showgrounds, racecourses and motor racing tracks.

Recreation facility (outdoor) has the same meaning as in the Wollongong Local Environmental Plan 2009. —means a building or place (other than a recreation area) used predominantly for outdoor recreation, whether or not operated for the purposes of gain, including a golf course, golf driving range, mini-golf centre, tennis court, paint-ball centre, lawn bowling green, outdoor swimming pool, equestrian centre, skate board ramp, go-kart track, rifle range, water-ski centre or any other building or place of a like character used for outdoor recreation (including any ancillary buildings), but does not include an entertainment facility or a recreation facility (major).

Regular shaped allotment means either:

- a) Allotment which is either square or rectangular in shape; or
- b) Allotment of another shape where a square or rectangular shape equivalent in area to the minimum lot size area for the allotment type could be contained within the boundaries of the allotment and includes a battle-axe shaped allotment and a corner allotment where the only deviation from the above requirements is the access handle (i.e. battle axe lot) or the splay corner (ie corner lot).

Related land means land including roads and thoroughfares that could affect or could be affected by any development proposed on a site.

Reliable access: During a flood means the ability for people to safely evacuate an area subject to imminent flooding within effective warning time, having regard to the depth and velocity of flood waters, the suitability of the evacuation route, and without a need to travel through areas where water depths increase.

Relic has the same meaning as in the Heritage Act 1977.



Relocatable home means:

- a) A manufactured home, or
- b) Any other moveable dwelling (whether or not self-contained) that comprises one or more major sections, including any associated structure that forms part of the dwelling.

Remedial action plan is a plan which sets the remediation strategies and measures for the remediation of identified contaminated land.

Remediation order: a Remediation Order is made by the NSW Department of Environment & Climate Change under Division 3 of Part 3 of the Contaminated Land Management Act 1997.

Remnant vegetation: Is the natural vegetation which still exists or, if the natural vegetation has been altered, is still representative of the structure and floristic characteristics of the natural vegetation.

REP: Regional Environmental Plan

Residential accommodation has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a building or place used predominantly as a place of residence, but does not include tourist and visitor accommodation.

Residential care facility has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means accommodation for seniors (people aged 55 years or more) or people with a disability that includes:

- a) Meals and cleaning services, and
- b) Personal care or nursing care, or both, and
- c) Appropriate staffing, furniture, furnishings and equipment for the provision of that accommodation and care, not being a dwelling, hospital or psychiatric facility.

Residential flat building has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a building containing 3 or more dwellings, but does not include an attached dwelling or multi dwelling housing.

Restaurant or café has the same meaning as in the Wollongong Local Environmental Plan 2009.

Means a building or place the principal purpose of which is the provision of food or beverages to people for consumption on the premises and that may also provide takeaway meals and beverages.

Restricted premises has the same meaning as in the Wollongong Local Environmental Plan 2009.* Means business premises or retail premises that, due to their nature, restrict access to patrons or customers over 18 years of age, and includes sex shops and similar premises but does not include hotel or motel accommodation, a pub, home occupation (sex services) or sex services premises.

Retail premises has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a building or place used for the purpose of selling items by retail, or for hiring or displaying items for the purpose of selling them by retail or hiring them out, whether the items are goods or materials (or whether also sold by wholesale).

Ridge height is the distance measured vertically from any point on the uppermost roof surface (not including a vent, chimney, flue, antennae or the like) to the natural ground level or finished ground level immediately below that point, whichever is lower.

Riparian corridor means the area of the river or creek system that supports or has supported the unique ecosystem. refers to any land (and its associated vegetation) that adjoins, directly influences, or is influenced by a watercourse. Its outer limit is measured from the top of a watercourse bank away from the watercourse centreline. It includes a core riparian zone (CRZ)



and a vegetated buffer

Riparian vegetation is vegetation that grows within the riparian corridor including on water surfaces, below water surfaces, on watercourse banks, and along the edges of watercourses.

Risk means a measure of the probability and severity of an adverse effect to life and property.

Risk (in relation to floodplain management) means the chance of something happening that will have an impact. It is measured in terms of consequences and probability (likelihood). In the context of this chapter E13, it is the likelihood of consequences arising from the interaction of floods, communities and the environment.

Road means a public road or a private road within the meaning of the *Roads Act 1993*, and includes a classified road.

Roadside stall has the same meaning as in the Wollongong Local Environmental Plan 2009.÷ Means a place or temporary structure used for retail selling of agricultural produce or hand crafted goods (or both) produced from the property on which the stall is situated or from an adjacent property.

Roof terrace means the flat roof over any portion of the building, which is both directly accessible for use from the dwelling/s it adjoins and also open to the sky, except for a pergola or similar sun control devices. A roof terrace may be designated for either private or communal open space purposes but does not include a balcony or basement podium defined elsewhere in this DCP.

Roofwater tank means a water tank, whether aboveground or below ground, designed to store rainwater harvested from a roof area where the stored water is used to supply plumbing fixtures and appliances in order to reduce the harmful effects of stormwater on the environment and to supplement the water supply to the property.

RPEng means Registered Professional Engineer

RPGeo: Registered Professional Geologist.

Run-off refers to stormwater running off a catchment during a storm on the catchment.

Rural industry has the same meaning as in the Wollongong Local Environmental Plan 2009. Means an industry that involves the handling, treating, production, processing or packing of animal or plant agricultural products, and includes:

- a) Agricultural produce industry, or
- b) Livestock processing industry, or
- c) Use of composting facilities and works (including to produce mushroom substrate), or
- d) Use of sawmill or log processing works, or
- e) Use of stock and sale yards, or
- f) The regular servicing or repairing of plant or equipment used for the purposes of a rural enterprise,
- g) Undertaken for commercial purposes.

Rural supplies has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a building or place used for the display, sale (whether by retail or wholesale) or hire of stockfeeds, grains, seed, fertilizers, veterinary supplies and other goods or materials used in farming and primary industry production.

Rural worker's dwelling has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a dwelling, ancillary to a dwelling house on the same landholding, used as the



principal place of residence by persons employed for the purpose of agriculture or a rural industry on that land.

School has the same meaning as in the *Wollongong Local Environmental Plan 2009* means a government school or non-government school within the meaning of the Education Act 1990.

Safe useful life expectancy (SULE) Rating:—SulE — Safe Useful Life Expectancy The SULE rating system, based on Barrell 2001, rates existing trees on their safe useful life expectancy, and are determined in view of both the current state of health and age of the tree.

Scour means Erosion of soil in the banks or bed of a creek, typically occurring in areas of high flow velocities and turbulence.

Seaward building line means the seaward alignment of existing dwellings adjacent to the foreshore, cliff top, beach or coastline. The seaward building line must not encroach upon the coastal building line defined elsewhere in this DCP.

Secondary dwelling has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a self-contained dwelling that:

- a) Is established in conjunction with another dwelling (the principal dwelling), and
- b) Is on the same lot of land (not being an individual lot in a strata plan or community title scheme) as the principal dwelling, and
- c) Is located within, or is attached to, or is separate from, the principal dwelling.

Secondary frontage means:

- a) The longer frontages where an allotment has two or more frontages to a road; or
- b) The frontage that adjoins a lane where an allotment (not including a corner allotment) runs between a road and a lane. A lane is generally a roadway that is 6 metres wide or less.

Sediment means material of varying size, both mineral and organic, that is being or has been moved from its site of origin by the action or wind, water or gravity and comes to rest.

Sedimentation means the deposition of sediment, usually in locations such as a channel, along a fence line, in an area of low slope, depression, watercourse or sediment trap.

Seepage means water that seeps from the ground around the building basement.

Self-storage units has the same meaning as in the Wollongong Local Environmental Plan 2009.÷ Means storage premises that consist of individual enclosed compartments for storing goods or materials (other than hazardous or offensive goods or materials).

Semi-detached dwelling has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a dwelling that is on its own lot of land (not being an individual lot in a strata plan or community title scheme) and is attached to only one other dwelling.

Seniors housing has the same meaning as in the Wollongong Local Environmental Plan 2009.

Means residential accommodation that consists of:

- a) A residential care facility, or
- b) A hostel, or
- c) A group of self-contained dwellings, or
- d) A combination of these, and that is, or is intended to be, used permanently for:
- e) Seniors or people who have a disability, or



- f) People who live in the same household with seniors or people who have a disability, or
- g) Staff employed to assist in the administration of the residential accommodation or in the provision of services to persons living in the accommodation,
- h) But does not include a hospital.

Sensitive locations (in relation to tele- and radio-communications facilities) Examples of locations that may be considered to be sensitive include residential areas, schools, childcare facilities, hospitals and seniors housing.

Septic tank means a tank used for the storage or primary treatment of sewage comprising sedimentation of settleable solids, flotation of oils and fats, and anaerobic digestion of sludge.

Serviced apartment has the same meaning as in the *Wollongong Local Environmental Plan* 2009.: Means a building or part of a building providing self-contained tourist and visitor accommodation that is regularly serviced or cleaned by the owner or manager of the building or part of the building or the owner's or manager's agents.

Setback means the horizontal distance measured from an external enclosing wall (including an above ground deck, balcony and the like), a window or the eaves of a building to the:

- Allotment front boundary; or
- · A window to a bedroom or living area of another dwelling.

Sewage means a combination of blackwater and greywater.

Sex services has the same meaning as in the Wollongong Local Environmental Plan 2009.

Sex services premises has the same meaning as in the Wollongong Local Environmental Plan 2009.:-Means a brothel, but does not include home occupation (sex services).

Shallow sub-surface drip/trickle irrigation means the use of effluent applied directly to plants by drip or trickle to the soil below a 50-100mm layer of bark, wood chip or mulch.

Shop has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means retail premises that sell groceries, personal care products, clothing, music, homewares, stationery, electrical goods or other items of general merchandise, and may include a neighbourhood shop, but does not include food and drink premises or restricted premises.

Shop top housing has the same meaning as in the Wollongong Local Environmental Plan 2009.

Means one or more dwellings located above (or otherwise attached to) ground floor retail premises or business premises.

Short-term site means a dwelling site within a caravan park which is designated as a short – term site for tourists for a period not exceeding 3 months.

Signage has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means any sign, notice, device, representation or advertisement that advertises or promotes any goods, services or events and any structure or vessel that is principally designed for, or that is used for, the display of signage, and includes:

- a) Building identification signs, and
- b) Business identification signs, and
- c) Advertisements,
- d) But does not include traffic signs or traffic control facilities.



Siltation means the filling or rising up of the bed of a watercourse or channel by deposited silt.

Site is the parcel of land, whether comprising one or more allotments, to which an application for consent relates.

Site Area: Means the area of any land on which development is or is to be carried out. The land may include the whole or part of one lot, or more than one lot if they are contiguous to each other, but does not include the area of any land on which development is not permitted to be carried out under this Plan.

Site audit statement means the written statement by the accredited site auditor (under the *Contaminated Land Management Act 1997*) that summarises the findings of the site audit and confirms what land uses may be undertaken on the site, taking into account the nature of the remediation works completed upon the subject site.

Site audit means an independent review of completed site contamination remediation works by an accredited site auditor under the *Contaminated Land Management Act* 1997.

Site classification means a classification of the site in accordance with the current version of Australian Standard AS 2870 - Residential Slabs and Footings.

Site of Aboriginal Cultural Significance means an area of land identified by the Local Aboriginal Community that has cultural heritage significance to the Aboriginal community for its natural features, visual connections, story and ceremonial values, contemporary values or archaeological sites.

Site width means the width of the allotment measured perpendicular to the side boundary for the full length of the building envelope. For corner allotments the site width is measured parallel to the primary street frontage.

Slope instability means a condition with the potential for causing the movement of soil, rock or debris.

Small lot housing (in relation to Chapter D17- Bulli Brickworks) Small lot housing at the Bulli Brickworks Urban Release Area is identified as development which consists of five (5) or more dwelling houses, where each dwelling is located on land with an area less than 450m² and having a width of less than 12 metres, and which are designed and constructed by a single developer/builder.

Small lot housing will only be considered where compliance with the requirements of *Wollongong Local Environmental Plan 2009* can be demonstrated.

Small supermarket means a supermarket with a reduced range of groceries and food that has a gross floor area less than 2,500sqm. Small supermarkets are classified as 'shops' under the LEP.

Social housing Means the development of housing for or on behalf of government and/or community organisations such as the Department of Housing and Office of Community Housing, includes public, community and Aboriginal housing but for the purposes of this DCP does not include residential development to which Part 3 Group homes or Part 5 Housing for seniors and people with a disability, within Chapter 3 Diverse housing of the State Environmental Planning Policy (Housing) 2021 (Seniors Living) 2004 or State Environmental Planning Policy No. 9 — Group Homes applies.

Soft engineering is the practice of using sustainable ecological principles and natural elements to resolve a situation and minimise the impact on the environment. This may include the use of vegetation and stones or other natural materials to stabilise or reduce the erosion of a watercourse bank and soften or enhance the watercourse aesthetic.

Soil means a natural material consisting of layers, amalgamates or individual particles or mineral and/or organic constituents, of variable thickness. It differs from its parent material in morphological, physical, chemical, and mineralogical properties and biological characteristics.



Solid wall is a wall which incorporates at least 75% non-transparent materials.

Specialty retail means a non-major retail shop in a centre that specialises in a narrow range of merchandise with an emphasis on product knowledge and customer service. Shops are generally up to 400sqm.

Spruikers refers to persons located on the public way, usually associated with or employed by a Sex Services Premises, who seek to entice customers to enter the premises.

Spurs: Secondary ridges typically occurring at right angles to a main ridge line, formed by stream erosion of the slopes of the main ridge.

Stacked parking space is a carparking space that relies on gaining access by passing through another carparking space.

Standard lot is a lot which has a single frontage to a residential street.

Storey has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a space within a building that is situated between one floor level and the floor level next above, or if there is no floor above, the ceiling or roof above, but does not include:

- a) A space that contains only a lift shaft, stairway or meter room, or
- b) A mezzanine, or
- c) An attic

Stormwater means surface runoff generated from rainfall events.

Stormwater harvesting and reuse scheme means a process of collection, treatment, storage, and use of stormwater.

Stormwater management means the processes or practices used to control stormwater.

Stormwater quality improvement device evaluation protocol (SQIDEP) is an industry-formulated, independent evaluation process for verifying performance of technologies for improving stormwater quality.

Stormwater treatment measure means both hard and soft engineering practices that treat and improve the quality and quantity of stormwater.

Stratigraphy: The sequence of layers in which soils/rocks have been deposited.

Street frontage height means the vertical height in storeys of the part of the building closest to the lot boundary adjoining the public domain (e.g. street or open space).

Street vending: The setting up or use within the road reserve of any box, stall, stand, barrow or stationary vehicle, other than a roadside stall or mobile vending vehicle defined hereunder for the purpose of offering for sale any goods or for the pursuit of any business, calling or employment.

Streetscape means the form, character and visual amenity of the street environment.

Structural design means a design for any structure to be erected on the site (which may be in the form of drawings) having structural elements where the design makes recommendations in respect of the structural works and has been prepared by a structural engineer or civil engineer requiring certification in accordance with form M12 of this policy as outlined in Chapter E12 and as available on Councils website.

Structural engineer means a civil engineer or structural engineer who is a member of or eligible for membership of a professional engineering institution, is university degree qualified with a minimum of five years practice during the last ten years as a structural engineer, and is listed on the National Professional Engineers Register, and either has or is employed by a corporation which



has professional indemnity insurance of not less than \$2 million, such insurance being evidenced to Council to be in force, for the year in which any information is submitted to the Council in accordance with this policy. The professional indemnity insurance must have retroactive cover extending back to at least the engineer's first submission to Council.

Structural works means the elements of any structure designed by a structural engineer or civil engineer.

Structurally integral protection means chemically-enhanced water resistant concrete used in combination with a waterproof membrane.

Sub – critical Flow: The state of flow where the water depth is above the critical depth. Here, the influence of gravity forces dominates the influences of inertial forces, and flow, having a low velocity, is often described as tranquil.

Subsoil drainage means drainage of the layer of soil under the surface of the ground.

Sub-surface (micro-trench) irrigation means the disposal of effluent through microtrenches at a depth of between 100mm and 300mm below ground level.

Suitably qualified civil engineer means a civil engineer who is included in the National Professional Engineers Register, administered by the Institution of Engineers Australia, or is eligible for membership of Engineer Australia.

Supercritical flow: The state of flow where the water depth is below the critical depth, inertial forces dominate the gravitational forces, and the flow is described as rapid or shooting.

Surcharge flow: Unable to enter a culvert or exiting from a pit as a result of inadequate capacity

Surface irrigation means the use of effluent applied to the ground from above ground level.

Survey plan is a plan prepared by a registered surveyor which shows the information required for the assessment of an application in accordance with the provisions of this Policy.

Swimming pool has the same meaning as in the Swimming Pools Act 1992. as an excavation, structure or vessel that is capable of being filled with water to a depth of 300 millimetres or more, and (b) that is solely or principally used, or that is designed, manufactured or adapted to be solely or principally used, for the purpose of swimming, wading, paddling or any other human aquatic activity, and includes a spa pool, but does not include a spa bath, anything that is situated within a bathroom or anything declared by the regulations made under the Swimming Pools Act 1992 not to be a swimming pool for the purposes of that Act.

Take away food and drink premises has the same meaning as in the Wollongong Local Environmental Plan 2009.: means food and drink premises that are predominantly used for the preparation and sale of food or drink (or both) for immediate consumption away from the premises.

Tank-based aquaculture has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means aquaculture utilising structures that are constructed from materials such as fibreglass, plastics, concrete, glass or metals, are usually situated either wholly or partly above ground, and may be contained within a purpose built farm or industrial style sheds or plastic covered hethouse to assist in controlling environmental factors.

Tanking means a continuous waterproof barrier is applied to the inside or outside of the basement structure, or an external membrane can be painted or sprayed onto the external surface which can be covered by a drainage board to provide protection from backfill.

Telecommunications facility has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means:

- a) Any part of the infrastructure of a telecommunications network, or
- b) Any line, equipment, apparatus, tower, mast, antenna, tunnel, duct, hole, pit, pole or other



structure or thing used, or to be used, in or in connection with a telecommunications network.

Telecommunications network has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means a system, or series of systems, that carries, or is capable of carrying, communications by means of guided or unguided electromagnetic energy, or both.

Temporary structure has the same meaning as in the Wollongong Local Environmental Plan 2009.: Has the same meaning as in the Act defined as including a booth, tent or other temporary enclosure (whether or not part of the booth, tent or enclosure is permanent), and also includes a mobile structure.

The Act means the Environmental Planning and Assessment Act 1979.

Thermal mass means the heat storage capacity of a given assembly or system. Generally, thee heavier and denser the material is, the more heat it will store and the longer it will take to release the heat.

Third party advertising refers to the content of an advertisement which is not directly related to the actual land use or goods or services produced on the subject parcel of land to which the advertising is proposed.

Tolerable risk means the risk which has been assessed and may be accepted provided that a treatment plan is implemented to maintain or reduce the risks.

Top of bank or highest bank is where the channel changes to the floodplain.

Topography: The natural surface features of a region.

Total nitrogen (TN) is the sum of the nitrogen present in all nitrogen-containing components in the water column. This includes large and small phytoplankton and zooplankton, suspended microphytobenthos, dissolved inorganic nitrogen (nitrate and ammonia), dissolved organic nitrogen, labile detritus (both at the Redfield ratio and the Atkinson ratio) and refractory detritus. Total nitrogen concentration is determined by a balance between inputs (diffuse catchment loads, point source loads) and loss terms (export from the site to a watercourse and within the sediments).

Total phosphorous (TP) is the sum of the phosphorus present in all phosphorus-containing components in the water column. This includes large and small phytoplankton and zooplankton, suspended microphytobenthos, dissolved inorganic phosphorus (both absorbed and desorbed), dissolved organic phosphorus, labile detritus (both at the Redfield ratio and the Atkinson ratio) and refractory detritus. Total phosphorus concentration is determined by a balance between inputs (diffuse catchment loads and point source loads) and loss terms (export from the site to a watercourse and within the sediments).

Total suspended solids (TSS) are a measure of the mass of solid material (organic and inorganic) suspended in the water column. Suspended solids can include a range of inorganic and organic particles suspended in the water column which can be defined as the filterable residue retained on a 2.0-micron pore size filter dried at 105oC.

Tourist and visitor accommodation has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a building or place that provides temporary or short-term accommodation on a commercial basis, and includes hotel or motel accommodation, serviced apartments, bed and breakfast accommodation and backpackers' accommodation.

Townhouse means a two-storey dwelling within a multi dwelling development, which may or may not be attached to other dwellings, with separate access from the ground floor level and direct access to private open space at natural ground level. A townhouse is form of multi-dwelling housing as defined by the *Wollongong Local Environmental Plan 2009*.

Transpiration pit means an excavation which has been filled with material conducive to the drainage of stormwater and which is designed to drain sideways, into the atmosphere, via a retaining medium.



Travel Plan is a strategy designed to encourage the use of environmentally friendly transportation methods, aiming to reduce reliance on private cars and promote alternatives like walking, cycling, public transport, and carpooling

Treatment plan means a plan explaining how treatment options will be implemented to manage the risk.

Treatment options means methods to control and treat the risk including but not limited to:

- Alternative forms of development such that the revised risk would be acceptable or tolerable;
- Stabilisation measures to control the initiating circumstances such that the revised risk would be acceptable or tolerable after implementation;
- Defensive stabilisation measures, amelioration of the behaviour of the hazard or relocation of the development to a more favourable location to achieve an acceptable or tolerable risk.

Tree dripline or zone means the area defined under a tree by the outer edge of the tree canopy projected to ground level.

Tree protection zone: The tree protection zone defines is the optimal distance from the trunk of a tree that should be maintained free of development and construction activity in accordance with AS4970-2009 in order to protect the tree and keep the tree viable.

Tree means a perennial plant with a self-supporting stem or trunk, when mature, and for the purpose of this DCP means any tree (other than an exempt tree) including the roots of that tree, if it is 3 metres or more in height, or has a trunk diameter of 200mm or more at a height of 1 metre from the ground, or has a branch spread of 3 metres or more. A significant tree also includes a tree identified as a Heritage Item in *Wollongong Local Environmental Plan 2009*.

Trunk drainage A stormwater system serving catchments larger than 15 hectares means high capacity channels or networks which carry runoff from local street drainage systems to receiving waters and forms part of the major system as defined in ARR2019 Book 9.

Urban Consolidation Area: Land identified in the maps in Appendix 1, which have been identified as areas where higher densities are permitted, due to their proximity to railway stations and ability to satisfy urban consolidation objectives.

Urban zone for the purposes of this DCP includes a residential, commercial /business, employment, industrial or other similar zone which contains predominately urban land uses.

Urbanisation means the change in land use from natural to developed state.

Utility infrastructure means infrastructure required for the provision of water, electricity, sewerage and telecommunications services.

Validation and monitoring is the process of determining whether the remediation strategies and measures have been achieved during the remediation of the site.

Vegetated buffer means a vegetated buffer extends an additional 10m from the CRZ and applies to Category 1 and 2 watercourses. The vegetated buffer serves to protect the CRZ from edge effects such as weed invasion, micro-climate changes, litter, trampling and pollution.

Vegetation Management Plan (VMP) is a plan intended to assist land managers and/or owners in managing the impacts of development (planned, previous or existing) to protect existing native vegetation and habitat from disturbance and/or remediate impacts from development activities. A VMP should be prepared in accordance the *Vegetation Management Plan Guidelines for Development Applications and Unauthorised Works* available on Council's website.

Vehicular ramp refers to a vehicular circulation carriageway which connects a driveway crossing to an internal off-street car park on a different level, or which connects two levels in a multi-level car park.



Verge means the part of the road reserve between the road carriageway and the boundary of adjacent lots. This may include the footpath area and includes the portion of land which accommodates the utility installations and street lighting poles.

Verifier means a geotechnical engineer or engineering geologist, as defined by this policy, who verifies a geotechnical report.

View corridor refers to a direct line of sight provided from the public space or a road to a significant object, place or feature.

Villa means a single storey dwelling within a multi dwelling development, which may or may not be attached to other dwellings, with separate access from the ground floor level and direct access to private open space at natural ground level. A villa is form of multi-dwelling housing as defined by the *Wollongong Local Environmental Plan 2009*.

Virgin excavated natural material (VENM) has the same meaning as in the *Protection of the Environment Operations Act 1997..*—inert waste (eg clay, gravel, sand, soil and rock) that is not mixed with any other waste and that:

- Has been excavated from areas that are not contaminated, as the result of industrial, commercial, mining or agricultural activities, with manufactured chemicals and that does not contain sulphidic ores or soils; and
- Consists of excavated natural materials that meet such criteria as may be approved by the
 Department of Environment and Climate Change.

Visibility is a measure of the extent to which the escarpment may be visible from surrounding locality taking into account the period of the view, view distance and context of the view. The underlying rationale for this aspect of the visual quality analysis is to analyse the visibility of the escarpment by precinct and identify key viewpoints necessary for visual absorption capacity and Development Opportunity Envelope identification. Distance plays a strong influence on visibility as the preparation of the view frame occupied by the escarpment decreases with distance. In addition atmosphere influences tend to reduce the level of contrast between development disturbances and he escarpment landscape.

Visual absorption capacity is an estimation of the capacity of a particular locality of landscape to absorb development without creating a significant change in visual character or a reduction in scenic environmental quality of the locality. The capacity to visually absorb development is primarily dependent on landform, vegetation and existing development. A major factor influencing visual absorption capacity is the level of visual contrast between the proposed development and the existing elements of the landscape in which the proposal is occupied. For example, flat or gently sloping open forest has a higher capacity to visually absorb development than strongly undulating cleared escarpment ridges and escarpment slopes. Further, if visually prominent development already exists on the escarpment then the capacity of the locality to absorb an additional development is higher, than a similar section of the escarpment that has a natural undeveloped visual character.

Warehouse or distribution centre has the same meaning as in the *Wollongong Local Environmental Plan 2009*.: Means a building or place used mainly or exclusively for storing or handling items (whether goods or materials) pending their sale, but from which no retail sales are made.

Waste disposal facility has the same meaning as in the Wollongong Local Environmental Plan 2009. Means a building or place used for the disposal of waste by landfill, incineration or other means, including such works or activities as recycling, resource recovery and other resource management activities, energy generation from gases, leachate management, odour control and the winning of extractive material to generate a void for disposal of waste or to cover waste after its disposal.

Waste management facility means a facility used for the storage, treatment, purifying or disposal of waste, whether or not it is also used for the sorting, processing, recycling, recovering, use or reuse of material from that waste, and whether or not any such operations are carried out on a



commercial basis. It may include but is not limited to:

- a) An extractive industry ancillary to, required for or associated with the preparation or remediation of the site for such storage, treatment, purifying or disposal, and
- b) Eco-generating works ancillary to or associated with such storage, treatment, purifying or disposal.

Waste management plan (WMP) means a waste management strategy / plan for the collection, recovery and / or disposal of waste material and the recycling of materials during the demolition, construction and post construction periods. The Waste Management Plan also includes estimates of volumes of waste produced and proposed recycling or reuse strategies to be implemented in order to minimise waste material being required to be taken to a registered land fill waste disposal site.

Wastewater means blackwater, greywater or a combination of blackwater and greywater arising from activities such as the use of toilets, bathrooms (basins, baths and showers), kitchens and laundries.

Water sensitive urban design (WSUD) Guidebook for Developers refers to the technical document developed by Wollongong City Council as amended or superseded, available on Council's website.

Water sensitive urban design (WSUD): WSUD is a philosophy which aims to mitigate environmental impacts particularly on water quantity, water quality and receiving waterways, conventionally associated with urbanisation. WSUD incorporates holistic management measures that take into account urban planning and design, social, cultural and environmental amenity of the urban landscape and stormwater management which are integrated with stormwater conveyance by reducing peak flows, protection of natural systems and water quality, stormwater reuse and water conserving landscaping. This can be achieved through a design approach that strives to maintain or replicate the natural water cycle through an incremental "treatment train" approach, through the optimisation the use of rainwater on-site whilst minimising the amount of water transported from the catchment.

Water table means the surface of groundwater below the ground surface.

Waterbody (artificial) or artificial waterbody has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means an artificial body of water, including any constructed waterway, canal, inlet, bay, channel, dam, pond, lake or artificial wetland, but does not include a dry detention basin or other stermwater management construction that is only intended to hold water intermittently.

Waterbody (natural) or natural waterbody has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means a natural body of water, whether perennial or intermittent, fresh, brackish or saline, the course of which may have been artificially modified or diverted onto a new course, and includes a river, creek, stream, lake, lagoon, natural wetland, estuary, bay, inlet or tidal waters (including the sea).

Waterbody has the same meaning as in the *Wollongong Local Environmental Plan 2009*. -means a waterbody (artificial) or waterbody (natural).

Watercourse crossing means a structure designed and constructed to provide access for vehicles, trains, cyclists, pedestrians, livestock or utilities over or through a watercourse. This includes bridges, culverts and causeways.

Watercourse has the same meaning as in the Wollongong Local Environmental Plan 2009.÷ Means any river, creek, stream or chain of ponds, whether artificially modified or not, in which water usually flows, either continuously or intermittently, in a defined bed or channel, but does not include a waterbody (artificial).

Waterless composting toilet (humus closet, biological toilet) waterless system that uses the principle of composting to break down human excreta to a humus-type material. The liquid fraction



is evaporated or directed to an appropriate management system.

Waterway has the same meaning as in the Wollongong Local Environmental Plan 2009.: Means the whole or any part of a watercourse, wetland, waterbody (artificial) or waterbody (natural).

Wetland has the same meaning as in the Wollongong Local Environmental Plan 2009.: means:

- a) Natural wetland, including marshes, mangroves, backwaters, sedgelands, wet meadows or wet heathlands that form a shallow waterbody (up to 2 metres in depth) when inundated cyclically, intermittently or permanently with fresh, brackish or salt water, and where the inundation determines the type and productivity of the soils and the plant
- b) Artificial wetland, including marshes, swamps, wet meadows, sedgelands or wet heathlands that form a shallow waterbody (up to 2 metres in depth) when inundated cyclically, intermittently or permanently with water, and are constructed and vegetated with wetland plant communities.

Wet composting toilets treats all household wastewater and putrescible household organic solid wastes such as food waste. Uses the principle of aerobic composting to break down the solid waste; the liquid component is directed to an effluent application system after passing through the pile of solids.

Zero lot line refers to the situation where the wall of the dwelling has no side boundary setback on one (1) side of the allotment and the allotment is benefited by a 1 metre wide restriction on the use of the land under Section 88B of the Conveyancing Act 1919 on the adjoining parcel of land, in order to enable on-going maintenance of the wall and / or roof of the subject dwelling.

Zone of influence (ZOI) means the area around an asset (both at ground level and below the ground) that may impact on an asset.



ITEM 3

POST EXHIBITION – REVIEW OF WOLLONGONG DEVELOPMENT CONTROL PLAN 2009 - CHAPTER A2 ECOLOGICALLY SUSTAINABLE DEVELOPMENT

On 16 December 2024, Council resolved to place an updated draft Wollongong Development Control Plan 2009 Chapter A2 Ecologically Sustainable Development on public exhibition for community feedback. The exhibition period ran from 3 February to 3 March 2025. A total of 54 submissions were received.

The purpose of this report is to outline the feedback from the public exhibition and recommend that Council adopt an amended Wollongong Development Control Plan 2009 Chapter A2 Ecologically Sustainable Development.

RECOMMENDATION

The amended Wollongong Development Control Plan 2009 Chapter A2 Ecologically Sustainable Development (Attachment 1) be adopted and a notice be placed on Council's Website.

REPORT AUTHORISATIONS

Report of: Chris Stewart, Manager City Strategy

Authorised by: Linda Davis, Director Planning + Environment - Future City + Neighbourhoods

ATTACHMENTS

- 1 Amended Wollongong DCP 2009 Chapter A2 Ecologically Sustainable Development
- 2 Exhibited Wollongong DCP 2009 draft Chapter A2 Ecologically Sustainable Development
- 3 Engagement Report Wollongong DCP 2009 Chapter A2 Ecologically Sustainable Development

BACKGROUND

On 21 November 2016, Council adopted Chapter A2: Ecological Sustainable Development which commenced on 14 December 2016. The Chapter was introduced following a sustainability review of the Wollongong Development Control Plan (DCP). Several other DCP chapters were also updated as part of the 2016 review.

The Sustainable Wollongong 2030 – A Climate Healthy City Strategy, Climate Change Mitigation Plan 2023 -2030, Climate Change Adaptation Plan 2022 and Urban Heat Strategy 2023 contain actions related to a further review of Council's DCP detailed in Table 1 below –

Table 1: Key supporting documents and relevant endorsed actions related to the review of Council's DCP

Document	Action			
Sustainable Wollongong 2030 – A Climate Healthy City Strategy	L3 Incorporate sustainability principles, requirements and standards into all decision making, including strategic planning projects and documents, asset management planning, procurement processes, licence and lease agreements for Council-owned facilities.			
	L4 Review and update development controls and associated policy to encourage environmentally sustainable development, including water efficiency, energy efficiency, use of renewable energy, and integrated transport management.			
	L5 Advocate for stronger sustainability requirements in Federal and State Government planning controls.			
	C3 Update the Water Sensitive Design chapter in the DCP.			
Climate Change Mitigation Plan 2023 –	EC5 Review Council's planning documents and guidelines to increase sustainability principles where feasible.			
2030	EC6 Provide sustainable buildings guidelines.			
	EC11 Increase public and active transport availability and options via delivery of infrastructure, strategies and planning provisions.			



Document	Action
Climate Change Adaptation Plan 2022	Strategic land use planning must ensure adequate new green space is provided as part of land releases and protect riparian corridors from urban development.
	Strategic and statutory planning to consider open space, land use and design requirements to address heat.
Urban Heat Strategy 2023	Consider urban heat more clearly and comprehensively in updates to DCP and other urban planning documents.

In late 2021, the Sustainable Planning Framework Review Project was initiated. This included a review of comparable local, state and federal government planning provisions and associated research. Some of the themes that emerged related to the health and cost benefits of all-electric appliances for cooking and heating. These saving are attributed to increased renewable energy penetration (i.e., solar photovoltaic systems), and greater efficiency from electric appliances. From a social perspective, a well-managed transition to electrification will ensure equitable access to potential cost saving.

The Sustainable Planning Framework Review Project led to the Climate Friendly Planning Framework Discussion Paper being developed, which was exhibited in June 2022. The Discussion Paper presented five key focus areas: Landscaping and Urban Greening, Solar and Energy Efficiency, Material, Building Form and Waste, Transport and Car Parking, Policies, and Incentives.

Periodic review, update and amendment of the DCP occurs as required, to ensure plans continue to be useful and relevant. A review of this Chapter reflects contemporary legislative and policy amendments.

On 16 December 2024, Council considered a report on the revised draft Chapter A2 which forms part of the introduction to the whole DCP. The chapter underpins controls in other DCP chapters by outlining Ecologically Sustainable Development (ESD) focus areas and objectives that need to be considered in applications for new development. It also provides examples of how these objectives can be addressed. Council resolved -

- 1 The formal legal definition of, and the principles and programs of, ecologically sustainable development (ESD) that exists in the current Wollongong Development Control Plan Chapter A2 Ecologically Sustainable Development Introduction, be incorporated again in the Introduction in the Draft Wollongong Development Control Plan 2009 Chapter A2: Ecologically Sustainable Development (prior to exhibition).
- 2 The Draft Wollongong Development Control Plan 2009 Chapter A2: Ecologically Sustainable Development be exhibited for a minimum of 28 days commencing in early 2025.
- 3 Following the exhibition period, a report outlining the submissions received from the public exhibition process be prepared for Council's consideration.
- 4 The General Manager write to relevant State Government Ministers seeking an expansion of its consideration of ESD to include indoor and outdoor air quality, urban heat, health and social equity objectives and specific provisions in relevant State planning instruments, and b to clarify its position in relation to banning the use of gas where other alternatives such as electricity are available.

Draft Chapter A2 was revised to incorporate the amendments referred to in the resolution and exhibited between 3 February and 3 March 2025 (Attachment 2).

PROPOSAL

The feedback received from the exhibition process is outlined in the Consultation and Communication section below. The feedback has been considered by staff and the following amendments are proposed to the draft Chapter A2 placed on public exhibition -

• The purpose of the introductory Chapter and inclusion of sustainability 'development controls' in other chapters of the DCP has been made clearer.



- The focus of ESD principles in Chapter A2 has been broadened to include water sensitive urban design, sustainable transport, waste reduction, biodiversity protection and community health, quality of life, amenity and social well-being.
- The objectives and examples of how to satisfy under each of the ESD focus areas has been reorganised.

The final draft Chapter A2 is included as Attachment 1 of this report.

Future consideration of DCP chapter reviews

Council received 54 submissions during the exhibition period. Of those, 52 submissions asked Council to mandate all-electric residential and non-residential development.

The submissions highlighted the health and socio-economic benefits of all-electric developments as being cheaper and healthier to run. Those benefits are widely recognised by health, industry and governments. The NSW Government in September 2024, released its NSW Consumer Energy Strategy which notes that 'Households and small businesses that currently use gas for heating, hot water and cooking could be saving on average \$4,000 a year and 2,120 kilograms of greenhouse gas emissions if they switch to all electric appliances and install solar and a battery in their house or building. Apartment residents can also access the benefits of electrification, saving on average \$2,400 and 820 kilograms of emissions a year. These bill savings include the benefit of only paying one daily supply charge for electricity, instead of paying daily supply charges for both gas and electricity. Switching from gas to electricity can also reduce indoor air pollution from burning unflued gas which can make asthma and other respiratory diseases worse.'

Wollongong LEP has an existing aim that supports those benefits: Clause 1.2(d) to improve quality of life and the social well-being and amenity of residents, business operators, workers and visitors.

In addition, the SEPP (Housing) 2021 contains 'Principles of Policy'

Principle (b) "Seeks to encourage the development of housing that will meet the needs of more vulnerable members of community, including very low to moderate incomes households, seniors and people with disability."

The final draft Chapter A2 includes an objective related to: Community Health, Quality of Life, Amenity and Social Well-Being which aligns with the SEPP Principles and LEP clause. The subsequent review of relevant DCP Chapters will further consider controls relating to sustainability including all-electric development.

It is proposed that individual chapters of the DCP be reviewed over time to incorporate contemporary sustainability controls. This approach is expected to lead to timely integration of key controls related to electrification, local renewable energy production, reduction of urban heat and EV charging requirements.

The updated schedule of planned DCP Chapter reviews is outlined in Table 2 below -

Table 2: List of Wollongong DCP Chapters relevant to ESD currently scheduled for review

	DCP Chapter	Status	Scheduled Review
A1:	Introduction	Completed.	Revised chapter adopted 24 February 2025 in force 5 March 2025.
A2:	ESD	Post exhibition report prepared for finalisation.	A draft chapter was endorsed for exhibition on 16 December 2024. Public exhibition concluded on 3 March 2025.
E3:	Car Parking, Access, Servicing/Loading Facilities and Traffic Management	Progressing.	A draft chapter was endorsed for exhibition on 24 February 2025. Public exhibition concluded on 9 April 2025. Post exhibition report scheduled for mid-2025.
E15:	Water Sensitive Urban Design	Currently under review.	A draft chapter for exhibition is expected to be reported to Council in mid-2025.



DCP Chapter	Status	Scheduled Review
E7: Waste Management	Currently under review.	A draft Chapter for exhibition is expected to be reported to Council in mid- 2025.
D13: Wollongong City Centre	Currently under review.	A draft chapter for exhibition is expected to be reported to Council mid-2025.
B4: Development in Centres and Peripheral Sales Precincts	Currently under review.	A draft chapter for exhibition is expected to be reported to Council in late 2025.
B5: Industrial Development	Currently under review.	A draft chapter for exhibition is expected to be reported to Council in late 2025.
B1: Residential Development	Currently under review.	A draft chapter for exhibition is expected to be reported to Council in late 2025 / early 2026.
D16: West Dapto	Ongoing	Regularly updated as new stages of West Dapto Urban Release Area are initiated.

It should be noted that the draft Chapter A2 provisions will relate to the assessment of new development. The provisions cannot be retrospectively applied to existing development and do not apply to exempt and complying development.

In relation to part 4 of the Council resolution on 16 December 2024, staff are in the process of preparing a letter to relevant State Government Ministers seeking clarification on the banning of gas in NSW. The draft letter which has been informed by the exhibition feedback relating to draft Chapter A2, seeks expansion of ESD considerations and specific provisions in relevant State planning instruments.

CONSULTATION AND COMMUNICATION

Ordinary Meeting of Council

The draft Chapter A2 was exhibited between 3 February and 3 March, 2025. The public exhibition was advertised through Council's website. A copy of the suite of documents was available for viewing on Council's website, in all Council libraries and at Council's Customer Service Centre in the Administration Building.

The following key stakeholders were also notified of the public exhibition by email -

- Property Council of Australia.
- Urban Development Institute of Australia (UDIA).
- Community groups.

The following suite of documents were made available during the public exhibition period –

- Council Report and Minutes (16 December 2024).
- Current Wollongong DCP 2009 Chapter A2 Ecologically Sustainable Development.
- Amended draft Wollongong DCP 2009 Chapter A2 Ecologically Sustainable Development.
- Frequently Asked Questions.

As a result of the public exhibition the website page received 368 views, with 184 documents downloaded. A total of 54 submissions were received as follows -

- Development Industry 2
- Group 5
- Individual 47

A copy of the Exhibition Engagement Report is provided as Attachment 3 to this report. A summary of the high-level comments and issues raised through the public exhibition process and the Council staff response is provided in Table 3 below –



Table 3: Summary of key comments and issues raised, responses and proposed changes

Comment/Issue Raised in Submission	Response	Proposed Change
All submissions were in favor of ESD	Noted	No change.
The structure of the chapter was confusing and purpose unclear	Noted. The draft chapter has been revised to emphasis the purpose of the introductory chapter and that ESD/sustainability controls will be consider as part of the review of other chapters.	Draft Chapter updated.
The need for a socially responsible and just transition to renewable energy	Noted. An ESD focus area of Community Health, Quality of Life, Amenity and Social Well-Being has been added to the draft Chapter.	Draft Chapter updated.
The need to provide development controls in certain and clear language	Noted. The draft chapter has been revised to make it clearer the chapter is introductory in nature and the controls for ESD / sustainability will be considered as part of the review of other chapters.	Draft Chapter updated.
The need to include all ESD principles.	Noted. The focus areas in the final draft Chapter A2 have been expanded to include water sensitive urban design, sustainable transport, waste reduction, biodiversity protection and community health, quality of life, amenity and social well-being.	Draft Chapter updated.
Vague wording makes it difficult to apply objective assessment criteria and how compliance will be assessed.	This Chapter outlines key focus areas and objectives which proponents of new development must address and demonstrates Council has considered ESD principles when exercising its decision-making functions.	No change.
Almost all submissions (52 of 54) called for controls to mandate all-electric buildings in both residential and non-residential.	Noted. The subsequent review of relevant DCP Chapters will further consider controls relating to sustainability including all-electric development.	No change.

A more detailed Engagement Report is provided in Attachment 3.

Advice was sought from Council's Legal Services Team to check for clarity, legibility and legal correctness of the proposed Chapter A2 amendments.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong Our Future 2032 Community Strategic Plan and the following goals and strategies –

	Community Strategic Plan 2032	Delivery Program 2022-2026
	Strategy	Service
1.5	Maintain the unique character of the Wollongong Local Government Area, whilst balancing development, population growth and housing needs	Lond Line Diagning
5.2	Urban areas are created and maintained to provide a healthy and safe living environment for our community	Land Use Planning

SUSTAINABILITY IMPLICATIONS

The draft Chapter A2 provides principles, objectives and examples of how to satisfy the objectives to guide proponents when considering ESD as part of their development proposal. The DCP provisions seek to facilitate a transition to a low waste and emission lifestyle with building occupants able to enjoy the health and cost benefits associated with living in a sustainable building.

RISK MANAGEMENT

The draft Chapter A2 aligns with Council's current supporting documents such as the Sustainable Wollongong 2030, Climate Change Mitigation Plan and Climate Change Adaptation Plan.

The DCP provisions will assist Council to meet its legislative obligations under the Local Government Act 1993 and Environmental Planning & Assessment Act 1979 to consider ESD principles in decisionmaking about environmental planning and assessment.

It is important to note that sustainability measures are being considered for various relevant chapters of the DCP and that these chapters will be exhibited separately.

Any amendments to the DCP should be undertaken in the knowledge that DCPs are guideline documents and DCP provisions cannot operate as prohibitions. The Environmental Planning & Assessment Act 1979 requires flexibility to be applied to the application of DCP controls and the Land and Environment Court regularly varies DCP provisions and requirements.

FINANCIAL IMPLICATIONS

There is no financial implication for Council to progress this work. All resourcing cost have been covered by the operational budget for the City Strategy Division.

CONCLUSION

A further review of draft Wollongong Development Control Plan 2009 Chapter A2 Ecologically Sustainable Development has been conducted in response to community feedback to provide more clarity on its purpose and broaden the ESD objectives and focus areas.

This report recommends that Council resolve to adopt the final draft Wollongong DCP 2009 Chapter A2 Ecologically Sustainable Development (Attachment 1).

Chapter A2 will underpin controls in other DCP chapters by outlining Ecologically Sustainable Development focus areas and objectives that developments need to consider. The subsequent review of relevant DCP Chapters will further consider controls relating to sustainability including all-electric development.

Ecologically Sustainable Development

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Part A - Introduction **Chapter A2 Ecologically Sustainable Development**

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Document Control

Rev No.	Adoption Date	In Force Date	Revision Details
	21/11/2016	14/12/2016	New Chapter resulting from sustainability review of DCP.
	Insert date	[Comments]	

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Item 3 - Attachment 1 - Amended Wollongong DCP 2009 Chapter A2 Ecologically Sustainable Development

Chapter A2 Ecologically Sustainable Development

1. INTRODUCTION

Under the Local Government Act 1993, the consideration of Ecologically Sustainable Development (ESD) principles is a guiding principle for councils when exercising their decision-making functions.

The Environmental Planning and Assessment Act 1979 (EP&A Act) similarly requires ESD considerations in decision-making about environmental planning and assessment.

ESD requires the effective integration of social, economic and environmental considerations in decision-making processes. For the purposes of meeting our legislative obligations, ESD can be achieved through the implementation of the following principles and programs:

the precautionary principle - namely, that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

In the application of the precautionary principle, public and private decisions should be guided by -

- careful evaluation to avoid, wherever practicable, serious or irreversible damage to the i) environment, and
- an assessment of the risk-weighted consequences of various options,
- inter-generational equity namely, that the present generation should ensure that the health, diversity and productivity of the environment are maintained or enhanced for the benefit of future generations,
- conservation of biological diversity and ecological integrity namely, that conservation of c) biological diversity and ecological integrity should be a fundamental consideration,
- d) improved valuation, pricing and incentive mechanisms - namely, that environmental factors should be included in the valuation of assets and services, such as
 - polluter pays that is, those who generate pollution and waste should bear the cost of containment, avoidance or abatement,
 - the users of goods and services should pay prices based on the full life cycle of costs of providing goods and services, including the use of natural resources and assets and the ultimate disposal of any waste,
 - environmental goals, having been established, should be pursued in the most costeffective way, by establishing incentive structures, including market mechanisms, that enable those best placed to maximise benefits or minimise costs to develop their own solutions and responses to environmental problems.

The EP&A Act seeks to promote good design and amenity of the built environment with an aim to protect the health and safety of occupants.

The DCP provisions relating to ESD are consistent with the vision and goals in our Community Strategic Plan relating to a healthy community in a liveable city.

Wollongong City Council has developed several supporting documents related to achieving ESD including:

- Sustainable Wollongong 2030: A Climate Healthy City Strategy
- Wollongong Climate Change Mitigation Plan 2023-2030
- Wollongong Climate Change Adaptation Plan 2022
- Wollongong Urban Heat Strategy 2023

Wollongong Development Control Plan 2009



Chapter A2 Ecologically Sustainable Development

- Wollongong Urban Greening Strategy 2017-2037
- Wollongong Waste and Resource Recovery Strategy 2024-2034
- West Dapto Open Space Design Manual
- West Dapto Open Space Technical Manual.

Council has an ongoing program of developing and updating supporting documents to ensure they remain relevant. Council's website should be consulted for the latest list and versions of supporting documents that may be relevant to your proposal.

2. **BACKGROUND**

In 2016, Council adopted the first version of Wollongong DCP Chapter A2 Ecologically Sustainable Development. This chapter forms part of the introduction to the whole DCP - it underpins controls in other DCP chapters by outlining ESD objectives that proposed developments need to consider. It also provides examples on how these objectives could be satisfied. Key focus areas to meet the principles of ESD include:

- Climate Change Adaptation and Mitigation seeking to ensure development is resilient to extreme weather events, rising temperatures and rising sea levels while reducing greenhouse gas emissions.
- Waste Reduction prioritising the use of sustainable materials, minimising construction 2. waste, and encouraging recycling and reuse of materials.
- 3. Biodiversity Protection - preserving and enhancing ecosystems, green corridors and natural habitats within urban and rural development.
- Water Sensitive Urban Design incorporating sustainable water management techniques such as rainwater harvesting, permeable surfaces, biofiltration systems and stormwater reuse to reduce run off and improve water quality.
- 5. Sustainable Transport – encouraging the use of active transport options such as walking and cycling, and public transport.
- Energy Efficiency and Renewables optimising building design, orientation and systems to reduce energy consumption and emissions while integrating renewable energy sources such as solar photovoltaic systems and battery storage.
- Community Health, Quality of Life, Amenity and Social Well-Being designing accessible 7. and inclusive and healthy environments.
- First Nations Knowledge and Care of Country integrating Aboriginal perspectives on sustainability, land care and ecological balance.

3. **OBJECTIVES AND EXAMPLES OF HOW TO SATISFY**

3.1 **Climate Change Adaptation and Mitigation**

Objectives

- Ensure development incorporates climate friendly design, energy efficiency and emission reductions to increase resilience and reduce environmental impact.
- Encourage and enable a transition to a low waste and emissions lifestyle. b)
- Promote urban cooling and minimise the heat island effect. c)
- d) Support the health of occupants by designing buildings to perform well in hot and extreme weather events.



Chapter A2 Ecologically Sustainable Development

Examples of how to satisfy

Ecologically Sustainable Development

- i) Prioritise passive solar design, natural ventilation and shading to reduce energy consumption.
- ii) Achieve beyond baseline NABERS and BASIX ratings for energy and water in all new non-residential and residential development.
- iii) Locate landscaping and tree canopy to maximise cooling of private open space and adjoining public realm.
- iv) Optimise urban cooling through green infrastructure placement and street orientation to catch prevailing breezes.
- Design subdivision design layouts in urban release areas to include appropriate allocated space for an interlocking tree canopy to be established over time.
- vi) Use cool roofs, green roofs and reflective building materials to reduce the urban heat island effect.
- vii) Incorporate additional site boundary setbacks to support airflow and improved building ventilation in urban areas.

3.2 Waste Reduction

Objectives

- a) Promote the use of sustainable building materials and reduce construction and operational waste.
- b) Encourage recycling and collection of organics to reduce emissions.

Examples of how to satisfy

- i) Develop a Waste Management Plan for demolition and construction works to minimise landfill waste.
- ii) Use construction materials that are durable, reducing the need for replacement.
- iii) Provide on-site facilities for recycling and Food Organics and Garden Organics (FOGO) collection in the design of multi-unit residential and commercial development.

3.3 Biodiversity Protection

Objectives

- a) Protect the unique biodiversity of the Wollongong Local Government Area.
- b) Enhance urban forest by appropriate selection and siting of native flora.

Examples of how to satisfy

- Retain and provide suitable buffers to vegetation that has existing biodiversity value and increase tree canopy coverage and native vegetation.
- ii) Implement offset planting if a tree is removed by the development.
- iii) Protect wildlife corridors and reconnect isolated pockets of biodiverse landscape to allow for wildlife movement in environmentally sensitive areas.
- iv) Undertake works to reduce weeds and other threats to the health and viability of vegetation.
- v) Provide or conserve appropriate vegetation adjacent to existing areas of biodiversity such as riparian corridors and natural areas.

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Item 3 - Attachment 1 - Amended Wollongong DCP 2009 Chapter A2 **Ecologically Sustainable Development**

Chapter A2 Ecologically Sustainable Development

Water Sensitive Urban Design

Objectives

Deliver sustainable and environmentally sensitive water management practices, including rainwater harvesting, permeable surfaces and efficient stormwater treatment, to reduce potable water consumption and improve water quality and urban cooling.

Examples of how to satisfy

- Reduce impervious surfaces and choose permeable materials to allow water to soak into the ground and reduce runoff.
- Install rainwater tanks and harvesting systems to collect, treat, and reuse stormwater on-site or close to the source as possible.
- Choose green infrastructure solutions that have lower environmental impacts and maintenance needs (for example, grassed swales and tree pit systems).
- Incorporate co-benefits such as waterway health, cultural values and urban amenity beyond just iv) stormwater management.

Sustainable Transport

Objectives

- Support the reduction of car trips and car dependance and encourage the use of sustainable transport such as active travel and public transport.
- Encourage sustainable mixed-use transport orientated development. b)
- Prioritise active transport (walking and cycling) and access to public transport to facilitate a shift c) away from private vehicle use.
- Support the transition to electric vehicles, e-mobility and other low carbon transport options.

Examples of how to satisfy

- Provide convenient and accessible on-site end-of-trip facilities (bike storage, showers, lockers) for commercial development to encourage active transport as a preferred mode of transport.
- Provide supporting infrastructure that enables active and low emission transport options including ii) electric vehicle and e-bike charging facilities.
- Design residential subdivisions to promote active transport as the primary choice for short journeys and facilitate key connections to public transport.
- Design carparks to allow for suitable adaptation to alternative uses for occupants that do not rely iv) upon vehicle ownership for their transportation needs.

Energy Efficiency and Renewables

Objectives

- Support development that demonstrates a high level of energy efficiency through energy sourcing, storage and equitable access by occupants.
- b) Maximise energy efficiency in development and use renewable energy sources to transition away from fossil fuels.
- Minimise the demand placed upon the existing electricity network through the use of locally



Chapter A2 Ecologically Sustainable Development

generated renewable energy and storage in new development.

Examples of how to satisfy

- i) Design building orientation, envelope and openings to increase energy efficiency.
- ii) Include energy efficient fixtures, fittings and equipment in building specifications.
- iii) Support the generation of renewable energy on-site through solar photovoltaic systems.
- iv) Incorporate appropriate roof structures to accommodate renewable energy equipment and provide access for cleaning and maintenance on relevant buildings.
- Consider spatial and equitable access requirements for renewable energy storage or other energy management systems.
- vi) Enable lots within a residential subdivision to be 'all-electric'.
- vii) Generate and store renewable energy on-site and minimise peak electricity demand supplied from the electricity network/grid.

3.7 Community Health, Quality of Life, Amenity and Social Well-Being

Objectives

- Encourage and promote developments that are socially optimal and support resilience, health, and the wellbeing of communities through:
 - i) improvement to indoor air quality.
 - ii) equitable access to low emission energy systems and appliances.
 - iii) measures to reduce the negative impacts of heat.
 - iv) accessible and inclusive for people with all levels of ability.

Examples of how to satisfy

- Rationalise energy sources to promote all-electric buildings and avoid gas supply and disconnection charges.
- ii) Provide all-electric appliances for indoor cooking and heating.
- iii) Ensure habitable rooms are provided with natural ventilation and cross ventilation where possible.
- iv) Include ceiling fans to facilitate greater ventilation and air flow.
- v) Incorporate universal building design principles for access and inclusion.
- vi) Incorporate universal subdivision design principles to achieve connectivity, walkability and cycling.
- vii) Development incorporates generous landscaping including a deep soil zone which supports canopy tree(s) to provide shade, natural outlook and high amenity surroundings for residents.

3.8 First Nations Knowledge and Care of Country

Objective

 Consider Aboriginal knowledge, cultural values and sustainable land management practices during the project design phase.



Chapter A2 Ecologically Sustainable Development

Examples of how to satisfy

- i) Undertake appropriate due diligence for projects located near or on an Aboriginal significant site.
- ii) Demonstrated engagement with Aboriginal people in a culturally appropriate way.

4. HOW TO USE THIS CHAPTER

When determining a development application, a consent authority is required under section 4.15 of the EP&A Act to consider the likely impacts of that development, including environmental impacts on both the natural and built environments, the social and economic impacts in the locality and the public interest.

Council expects all new development in the Wollongong Local Government Area is consistent with the principles of ESD and resilient to climate change.

This chapter outlines key focus areas and objectives, and provides examples of how to satisfy the ESD objectives which proponents for new developments must consider and address as part of their development application. The examples listed in this chapter are not exhaustive and proponents are encouraged to explore other design features relevant to their particular site and development which would result in more sustainable outcomes for both the occupants of the development and the wider community.

This chapter provides context for specific controls contained in other DCP chapters. By reviewing their application against the how to satisfy examples presented in this chapter, applicants can identify elements of their proposal that are consistent with the principles of ESD.

Development controls for ESD have been integrated into relevant sections of this DCP. This chapter must be read in conjunction with other relevant chapters.

5. RELATIONSHIP WITH OTHER PLANS AND POLICIES

This chapter reflects recent developments in federal and state government policies, as well as the strategic direction of Wollongong City Council. This chapter must be read in conjunction with other relevant DCP chapters. ESD principles and objectives are considered in each update of the Wollongong DCP.





Part A – Introduction Chapter A2 Ecologically Sustainable Development Contents

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Document Control

Rev No.	Adoption Date	In Force Date	Revision Details
	21/11/2016	14/12/2016	New Chapter resulting from sustainability review of DCP.
	Insert date	[Comments]	

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Chapter A2 Ecologically Sustainable Development

1. INTRODUCTION

Under the Local Government Act 1993, the consideration of Ecologically Sustainable Development (ESD) principles is a guiding principle for councils when exercising their decision-making functions.

The Environmental Planning and Assessment Act 1979 (EP&A Act) similarly requires ESD considerations in decision-making about environmental planning and assessment.

For the purposes of meeting our legislative obligations, ecological sustainable development requires the effective integration of social, economic and environmental considerations in decision-Ecologically sustainable development can be achieved through the making processes. implementation of the following principles and programs -

a) the precautionary principle - namely, that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

In the application of the precautionary principle, public and private decisions should be guided by -

- i) careful evaluation to avoid, wherever practicable, serious or irreversible damage to the environment, and
- an assessment of the risk-weighted consequences of various options,
- b) inter-generational equity namely, that the present generation should ensure that the health, diversity and productivity of the environment are maintained or enhanced for the benefit of future generations,
- conservation of biological diversity and ecological integrity namely, that conservation of biological diversity and ecological integrity should be a fundamental consideration,
- improved valuation, pricing and incentive mechanisms namely, that environmental factors should be included in the valuation of assets and services, such as
 - polluter pays that is, those who generate pollution and waste should bear the cost of containment, avoidance or abatement,
 - the users of goods and services should pay prices based on the full life cycle of costs of providing goods and services, including the use of natural resources and assets and the ultimate disposal of any waste,
 - environmental goals, having been established, should be pursued in the most cost effective way, by establishing incentive structures, including market mechanisms, that enable those best placed to maximise benefits or minimise costs to develop their own solutions and responses to environmental problems.

The EP&A Act also seeks to promote good design and amenity of the built environment with an aim to protect the health and safety of occupants.

The DCP provisions relating to ESD are consistent with the vision and goals in our Community Strategic Plan relating to a healthy community and liveable city.

Wollongong City Council has developed several supporting documents related to achieving ESD includina:

- Sustainable Wollongong 2030 A Climate Healthy City Strategy
- Wollongong Climate Change Mitigation Plan 2023-2030
- Wollongong Climate Change Adaptation Plan 2022
- Wollongong Urban Heat Strategy 2023

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- Wollongong Urban Greening Strategy 2017-2037
- Wollongong Waste and Resource Recovery Strategy 2024-2034
- West Dapto Open Space Design Manual
- West Dapto Open Space Technical Manual.

Council has an ongoing program of developing and updating supporting documents to ensure they remain relevant. Council's website should be consulted for the latest list and version of supporting documents that may be relevant to your proposal.

2. **BACKGROUND**

In NSW the sustainable performance of buildings is largely governed by the National Construction Code and State policy.

The Building Sustainability Index (BASIX) was introduced in 2004 to measure the sustainability performance of households. Over time the development thresholds (i.e. type of building and value of construction) to which the BASIX requirements apply, have evolved to capture more development. The sustainability targets applied to development have also increased over time. The BASIX requirements now form part of the Sustainable Buildings State Environmental Planning Policy (SEPP) which commenced on 1 October 2023.

The SEPP includes a provision that gives no effect to an environmental planning instrument or DCP that seeks to further reduce consumption of mains-supplied potable water or greenhouse gas emissions related to the use of a residential building. The BASIX requirements do not stipulate a specific product or solution to meet the sustainability targets but maintains the freedom to choose amongst various options. This includes options relating to the household energy source(s).

The provisions of this DCP Chapter seek to inform design choice by highlighting the health and economic benefits of living in a sustainable and all-electric household. Council also encourages applicants to go beyond the minimum requirements for their development to increase the sustainability and environmental performance of our built environment.

3. **OBJECTIVES**

The objectives of this Chapter

- a) Support development that contributes to the sustainable future of our City and the Wollongong community target of net zero greenhouse gas emissions by 2050.
- Require proponents to demonstrate that ESD principles have been considered in the built form design of proposed development.
- c) Encourage and promote development that sets new benchmarks for the resilience, health, and wellbeing of building occupants through:
 - i) improvement to indoor air quality
 - ii) equitable access to low emission equipment and appliances
 - iii) reduced building operational costs and encouraging a transition to a low waste and emissions lifestyle
 - iv) measures to reduce the negative impacts of heat.

HOW TO USE THIS CHAPTER



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Chapter A2 Ecologically Sustainable Development

When determining a development application, a consent authority is required under section 4.15 of the EP&A Act, to consider the likely impacts of that development, including environmental impacts on both the natural and built environments, the social and economic impacts in the locality and the public interest.

Council expects the principles of ESD to be a consideration for all relevant development in the Wollongong Local Government Area.

This chapter outlines the ESD principles and objectives that proponents for new development must consider and address as part of their development application. Examples of how to satisfy the ESD objectives are also provided in this chapter. The listed examples are not meant to be exhaustive and a proponent may nominate alternative sustainable design elements for consideration.

5. RELATIONSHIP WITH OTHER PLANS AND POLICIES

Development controls that align with the principles of ESD have been integrated into relevant sections of this DCP. This chapter must be read in conjunction with other relevant chapters. This chapter reflects recent developments in federal and state government policies as well as the strategic direction of Wollongong City Council. ESD principles are considered in each update of the Wollongong DCP.

PRINCIPLES 6.

Residential Development (including subdivisions) 6.1

In deciding whether to grant consent to residential development, Council requires an application to demonstrate how ESD principles have been considered as part of the building design and fit out to enhance the health and safety of its future occupants.

Applicants must demonstrate that consideration has been given to incorporation of the following options into any new development:

6.1.1 Indoor Amenity

Objectives

- Ensure building occupants health and wellbeing is protected with suitable choices being made at the building design and construction phase.
- b) Improve indoor air quality and avoid the generation of harmful airborne byproducts associated with the consumption of natural gas or other fossil fuels.

Examples of how to satisfy the objectives

- Provide all-electric appliances for indoor cooking and heating
- Ensure habitable rooms are provided with natural ventilation and cross ventilation where possible
- 3) Include ceiling fans to facilitate greater ventilation and air flow

6.1.2 Equitable access to low emission equipment and appliances

Objectives

a) Support development that demonstrates a high level of energy efficiency through energy sourcing, storage and equitable access by occupants.

Examples of how to satisfy the objectives

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Chapter A2 Ecologically Sustainable Development

- 1) Design building orientation, envelope, and openings to increase energy efficiency
- 2) Select energy efficient systems, equipment and appliances
- Support the generation of renewable energy onsite through solar photovoltaic systems and / or purchase offsite renewable energy
- 4) Incorporate appropriate roof structures to accommodate and access equipment for cleaning and maintenance on relevant buildings
- 5) Consider spatial and equitable access requirements for renewable energy storage or other energy management systems
- 6) Consider the provision of infrastructure that promotes active and low emission transport options including electric vehicle and e-bike charging facilities
- 7) Residential subdivision in urban release areas are designed to promote active transport as the primary choice for short journeys and demonstrate key connections to public transport
- Residential subdivision design in urban release areas include appropriate allocated space and land easement requirements to house associated renewable energy infrastructure such as community batteries and solar photovoltaic systems

6.1.3 Reduced building operational costs and encouraging a transition to a low waste and emissions lifestyle

Objectives

- a) Promote the health and economic benefits of living sustainably.
- b) Encourage and enable a transition to a low waste and emissions lifestyle.

Examples of how to satisfy the objective:

- 1) Rationalise household energy sources to promote all-electric buildings and avoid gas supply and disconnection charge
- Prioritise passive solar design to maximise thermal comfort and minimise energy consumption for heating and cooling.
- Use materials that are durable, reducing the need for replacement.
- Consider a flexible approach to the allocation and suitable adaptable use of car parking spaces for occupants that do not rely upon vehicle ownership for their transportation needs.
- Specify water efficient fixtures, fittings and equipment.
- Support access to Food Organics (FOGO) waste collection through building design.
- Integrate opportunities for food production into medium to high density residential development including planter boxes, roof-top gardens and irrigation.
- 8) Consider landscaping that incorporates edible plants such as fruit trees, nuts and herbs.
- Residential subdivisions in urban release areas include the installation of energy storage technologies such as community batteries to maximise the use of locally generated renewable electricity.

6.1.4 Measures to reduce the negative impacts of heat



Item 3 - Attachment 2 - Exhibited Wollongong DCP 2009 draft Chapter A2 Ecologically Sustainable Development

Chapter A2 Ecologically Sustainable Development

Objectives

- a) Promote urban cooling and minimise the heat island effect.
- b) Support the health of occupants by designing buildings to perform well in hot and extreme weather events.

Examples of how to satisfy the objectives

- 1) Generate and store renewable energy onsite and minimise peak electricity demand supplied from the electricity network / grid.
- 2) Select appropriate roof colours for the locality to maximise the solar reflective index.
- 3) Encourage the retention of existing mature trees and use of native landscaping in residential subdivision design.
- 4) Locate landscaping and green cover to maximise cooling of the private pen space and adjoining public realm.
- 5) Optimise urban cooling through green infrastructure placement and street orientation to catch prevailing breezes.
- 6) Subdivision design in urban release areas includes appropriate allocated space for an interlocking tree canopy to be established over time
- 7) Incorporate additional building setbacks to support airflow in urban areas.

6.2 **Non-residential Development**

In deciding whether to grant consent for certain non-residential development, Council requires an application to address the relevant assessment provisions outlined in the Sustainable Buildings SEPP. An extract of the SEPP provisions that must be addressed is provided below:

- (a) the minimisation of waste from associated demolition and construction, including by the choice and reuse of building materials,
- (b) a reduction in peak demand for electricity, including through the use of energy efficient technology,
- reliance on artificial lighting and mechanical heating and cooling through (c) a reduction in t
- (d) the generation and storage of renewable energy,
- (e) the metering and monitoring of energy consumption,
- the minimisation of the consumption of potable water.

In addition to this requirement, applicants are encouraged to consider if any of the examples provided under the residential development section of this chapter can be incorporated into their non-residential development plans.



OUR WOLLONGONG JOIN THE CONVERSATION

Wollongong Development Control Plan Chapter A2: Ecologically Sustainable Development

Submissions in Reply Engagement Report March 2025





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The information in this report is based on data collected from community members who chose to be involved in engagement activities and therefore should not be considered representative.

This report is intended to provide a high-level analysis of the most prominent themes and issues. While it's not possible to include all the details of feedback we received, feedback that was relevant to the project has been provided to technical experts for review and consideration.

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Executive Summary

About the Project

Council exhibited a draft revised Chapter A2: Ecologically Sustainable Development for the Wollongong Development Control Plan 2009 and sought feedback from the community between 3 February to 3 March 2025. Council emailed stakeholders and the exhibition was notified publicly.

Engagement Overview

Council received 54 submissions (15 online responses and 39 via email) during the exhibition period. The project webpage had 368 visits with 184 downloads of the draft Chapter. Many of the submissions were well considered and highly detailed. They reflected a knowledge of the NSW planning system and the role of Ecologically Sustainable Development (ESD).

Key Feedback

- The structure of the exhibited chapter was confusing and the purpose unclear.
- The need for a socially responsible and just transition to renewable energy.
- The need to provide development controls in certain and clear language.
- The need to include all ESD principles noting some were missing.
- Almost all submissions called for controls to mandate all-electric buildings in both residential and non-residential.
- All submissions were in favour of ESD.

Next Steps

The feedback will be considered by the project team and all responses reviewed in detail and recommendations to improve the chapter made.

Background

On 15 December 2009, Council adopted the Wollongong Development Control Plan (DCP) 2009. The DCP came in on 3 March 2010, following the commencement of the Wollongong Local Environmental Plan (LEP) 2009. On 21 November 2016, Council adopted Chapter A2: Ecological Sustainable Development which commenced on 14 December 2016. The chapter was introduced following a sustainability review of the DCP. Seven other DCP chapters were updated as part of the 2016 review which involved the introduction of additional controls related to sustainability.

This review of the chapter has been undertaken in response to actions in Sustainable Wollongong 2030 – A Climate Healthy City Strategy, and Climate Change Mitigation Plan 2023 -2030. The chapter review aligns with actions in Urban Greening Strategy 2017-2037, Climate Change Adaptation Plan 2022 and Urban Heat Strategy 2023.

Chapter A2 is an introductory chapter in the Wollongong DCP it includes the principles of ESD, key focus areas and provides examples on how to demonstrate ESD. The development controls for ESD are/will be included in relevant chapters throughout the DCP.



Stakeholders

Stakeholders identified prior to the start of the engagement period included -

- Internal staff.
- Property Council and Urban Development Institute of Australia.
- Community Groups such as Renew Illawarra, 350 Australia, Electrify 2515.
- Register of Interest Environment.
- Residents of Wollongong LGA.
- Visitors to Wollongong LGA.

Method

We used the following methods to notify stakeholders of the exhibition and invite their participation.

Methods	Details	
Communication Methods		
Email to key stakeholders	An email was sent to key stakeholders and community groups.	
Engagement Methods		
Our Wollongong website	The project webpage hosted background information and supporting documents - • Draft Chapter A2. • Current Chapter A2. • Council report. • FAQ. • Online feedback Form.	

Results

Summary of the results from the exhibition.

Engagement Participation Results

A total of 54 submissions (15 online responses and 39 via email) were received during the exhibition period. 4 were from groups and 51 were from individuals. One of the group submissions was co-signed by another seven supporting groups.



Summary of online participation

Measure and Explanation	Usage
Aware – Total number of users who viewed the project page	368
Informed – Total number of users who opened a hyperlink or read a document	220
Engaged – Total number of users who have actively contributed to the project via the project page	15

Key themes from the Submissions

A snapshot of the key themes and points made in the submissions

Clarity and comprehensiveness in the context of ESD

- The background section should provide a fuller explanation of ESD considerations extending beyond BASIX and Nabers.
- Overall lacks a strong enforceable commitment to ESD principles.
- Should include the four ESD pillars with a clearer structure and alignment.
- ESD principles to protect biodiversity is missing Wollongong's unique biodiversity is critical to protect.
- More comprehensive ESD framework and strengthen controls -
 - Energy (efficiency, emissions, renewables, storage).
 - Water (efficiency, storage, waste, stormwater).
 - Waste (avoidance, recycling, emissions impact).
 - Transport (public transport, e-vehicle infrastructure).Health and amenity (air/water quality, daylight, noise).
 - Equity and Justice many homes are locked into outdated gas infrastructure and renters lack choice.
 - Biodiversity and Landscape.
 - Urban Heat.
 - Resilience and Adaptability (climate risks).

Terminology and Structural Issues

- Section 'How to Use This Chapter' is unclear and should clarify how both Council and external parties will apply it.
- Merge Objectives (Section 3) with Principles (Section 6) for a more logical structure. The connection between the two sections is not clear.
- Language is vague relying on weak verbs 'support, encourage and consider' which fail to impose obligation.
- Needs stronger language and controls. For example, All-electric buildings for new residential and commercial developments.
- Vague wording 'consider' makes it difficult to apply objective assessment criteria and how compliance will be assessed, leading to inconsistency and uncertainty for developers.



A2 Ecologically Sustainable Development

Remove Chapter A2 as standalone and integrate sustainability controls within relevant 'B'
Chapters. If A2 is retained provide clearer guidance on how ESD provisions will be
measured, who will assess compliance.

Socially responsible and just transition to renewable energy

- Recognise intergenerational equity and public health as a key ESD principles.
- Ensure development remains feasible.

All-electric development

- A large number of submissions (50 of the 52) mentioned banning gas connections for all new residential and commercial buildings.
- Chapter A2 and any other relevant chapter, mandate all-electric buildings for new residential and commercial developments on the grounds that 1) health of occupants and workers would be better protected, and 2) installation and running costs would be reduced.
- Gas is bad for our environment because of emissions, bad for our health because of well
 researched links to childhood asthma.

Next Steps

Feedback from the community will now be considered by the project team. All submissions will be reviewed in detail and recommendations made to refine DCP Chapter A2 Ecologically Sustainable Development prior to it being adopted.

All feedback is important and is one factor in the decision-making process for Council. The graphic below shows some of the factors we consider in our decision making:



All identified stakeholders, participants and the broader community will be updated on this DCP Chapter as it progresses. Updates will be made available via Our Wollongong on our website.



ITEM 4 DISPOSAL OF LOT 331 DP 16051, 28 LAKE AVENUE, CRINGILA

This report is submitted to obtain Council approval for the sale of Lot 331 DP 16051, being 28 Lake Avenue, Cringila, (subject site) as it is deemed surplus to Council's Operational Land Requirements.

RECOMMENDATION

- 1 Council authorise the sale of Lot 331 DP 16051 being 28 Lake Avenue, Cringila, on the open market.
- 2 The General Manager be authorised to approve the sale strategy and finalise the sale price and the terms of the sale.
- 3 The Lord Mayor and General Manager be granted authority to affix the Common Seal of Council to any documentation required to give effect to this resolution and the General Manager be granted authority to sign any documentation necessary to give effect to this resolution.

REPORT AUTHORISATIONS

Report of: Roisin OSullivan, Manager Commercial Operations + Property (Acting)
Authorised by: Kerry Hunt, Director Community Services - Creative and Innovative City

ATTACHMENTS

- 1 28 Lake Avenue Cringila Site Plans
- 2 28 Lake Avenue Cringila Historical Aerial Views
- 3 28 Lake Avenue Cringila Street View

BACKGROUND

On 30 May 1929, Deposited Plan 16051 was lodged creating the Property by way of a subdivision. That subdivision created the subject site as a private lot and the property was owned by a private owner. The lot created as a residential lot along a residential street in a generally mixed-use area.

Council purchased the Property from the previous owner in 1986, with the intent to develop a Community Centre on the subject site. The subject site was not gifted or dedicated to Council as a park, open space or any other form of Community Land. The Property was never used or intended to be used as a public reserve or park.

The Cringila Community Centre and Hall was later constructed on another site in close proximity only two (2) properties south of the subject site. The existing Community Centre is separated from the subject site by a private dwelling and Gorrell Street, such that it cannot be amalgamated with the existing Centre.

The subject site became redundant to Council's needs due to the construction of the new community centre site.

The Subject Site

The subject site was classified as Operational Land in accordance with Council Resolution dated 23 May 1994 and due to the requirements of the newly introduced *Local Government Act 1993* (NSW). The Property was identified as suitable to be classified as Operational Land due to its zoning and potential to be leased or sold by Council in the future. The Council report proposing the reclassification considered community feedback at the time, with no objections received from the community opposing the classification.

Council has historically received expressions of interest for the purchase of the site from adjoining owners, however, and as the subject site is suitable to be developed independently, Council's Land and Easement Acquisition and Disposal Policy requires it to be sold on the open market.

Council proposes to engage a real estate agent to market and sell the parcel of land.



Site Particulars

The subject site is approximately 501 metres squared and is located on the north-west corner of Gorrell Street and Lakeview Parade, Cringila, and is zoned R2 Low Density Residential.

The subject site remains located on a residential street, near a mixed use and residential area. It adjoins two (2) residential dwellings, being across the road from one (1) residential building on Gorrell Street, and one (1) residential building and a small medical practice on Lakeview Parade. Aerial and street views of the subject site are included as attachments to this report.

The subject site is not community land, park, or open space and is a six-minute walk (or one-minute drive) to John Crehan Park and a thirteen-minute walk (or two-minute drive) to Cringila Hill Playground, both of which are Council owned Community Land and zoned RE1 for public recreation.

The wide footpath and a bus stop within the road reserve adjoining the subject site are not within the boundaries and will not be affected by the sale. There is a park bench sitting on top of a concrete slab in the middle of the parcel of land. There is no objection to the removal of that Council asset.

As such, the subject site has been identified by Council as being excess to Council's operational requirements and suitable for sale – as intended and in accordance with the classification of the Property in 1994.

Tree Commentary

There are trees located on the subject site that were planted by Council in the late 1980s after the site was acquired. They are not naturally occurring and do not form part of any protected area or riparian zone. The trees on site are subject to Council's existing Developmental Control Plan: Chapter E17: Preservation and Management of Trees and Vegetation which would be considered in any Development Application lodged with Council. The trees are otherwise managed under the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008* (NSW) if a development is considered and approved by a private certifier.

PROPOSAL

It is proposed that Council dispose of the subject site on the open market and by way of auction. It is proposed that Council engage a real estate agent and auctioneer in accordance with Council's Formal Quotation and Tendering Procedures, and that a reserve price be set by the General Manager in accordance with the independent valuation advice obtained, details of which have been circulated to Council under separate cover.

CONSULTATION AND COMMUNICATION

In preparing this report, Council has consulted and communicated with all relevant Council Divisions, as outlined below:

- Land Use Planning City Strategy
- Community Land Management City Strategy
- Heritage City Strategy
- Environmental Planning City Strategy
- Community Development Strategy and Projects
- Open Space + Environmental Services
- Environment + Conservation Services
- Infrastructure Strategy + Planning Division
- Civil Assets Infrastructure Strategy + Planning
- Floodplain and Stormwater Infrastructure Strategy + Planning
- Transport and Infrastructure Planning Infrastructure Strategy + Planning
- Commercial Operations + Property
- Sport + Recreation
- City Works



No objections were received from the above to the sale of the subject site. The identified parcel of land is not required for any purpose of Council and is deemed to be excess to Council's Operational Requirements.

Council engaged an independent registered valuer, Walsh & Monaghan, to establish market valuation.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 1 - We value and protect our environment, and Goal 4 - We are a connected and engaged community. It specifically delivers on the following:

	Community Strategic Plan 2032	Delivery Program 2022-2026
	Strategy	Service
1.5	Maintain the unique character of the Wollongong Local Government Area, whilst balancing development, population growth and housing needs.	Property Services
4.8	Council's resources are managed effectively to ensure long term financial sustainability.	

This disposal will proceed in accordance with Council's Land and Easement Acquisition and Disposal Policy and the Wollongong 2028 Community Goal and Objective.

FINANCIAL IMPLICATIONS

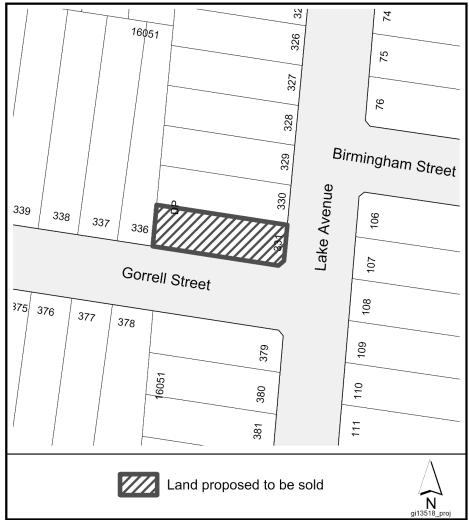
Council will generate revenue and receive funds from the sale of the subject site in line with the valuation information provided under separate cover. Council will be required to engage a real estate agent, and auctioneer to manage the sale of the subject site and will pay fees out of the funds generated from the sale. Council would also generate Rate Revenue for the subject site in perpetuity.

If retained, Council will hold the maintenance costs and liabilities of the subject site.

CONCLUSION

The subject site is recommended to be sold as it provides no benefit to Council as Operational Land that is excess to operational requirements. As such, retaining the subject parcel is a maintenance and financial risk and liability to Council. The subject site ought to be sold in accordance with an independent market valuation in accordance with Council's policies.





White every effort has been made to ensure the highest possible quality of data, no fability will be accepted for any insocuracy of the information shown, provided (Walangood City Council Macrino Services Section 1 his man may not be encodeded in any form whether without the express written permission of Walangood City Council







































Attachment

Street View Imagery 28 Lake Avenue, Cringila Photos taken 24 April 2025



Image 1



Image 2





Image 3



ITEM 5

GRANT OF EASEMENTS AND RESTRICTIONS ON THE USE OF LAND OVER COUNCIL OPERATIONAL LAND BEING LOT 3 DP 1313641 AS PART OF CLEVELAND ROAD UPGRADE PROJECT

This report seeks Council's approval to the grant of easements and restrictions of the use of land over part of Council's operational land, Lot 3 in DP 1313641 Cleveland Road, Cleveland (Property) as part of Stage 2 of the Cleveland Road Upgrade Project and Electrical Approvals (Project).

RECOMMENDATION

- 1 Council resolves to the grant of easements for Padmount substation, underground cables and associated restrictions of the use of land (subject to final survey) over Council operational land currently known as part Lot 3 DP 1313641 Cleveland Road, Cleveland in favour of Epsilon Distribution Ministerial Holding Corporation (Endeavour Energy) (EDMHC), as shown on Attachment 2 to this report.
- 2 Council will be responsible for all costs relating to the easement creation including survey, plan registration and legal costs, and any other incidental costs incurred in this matter.
- 3 Approval be granted to affix the Common Seal of Council and/or delegation pursuant to section 377 of the *Local Government Act 1993* to the survey plan, Section 88B Instrument and any other documentation required to give effect to this resolution.
- 4 The General Manager be authorised to execute any documents to give effect to this resolution.

REPORT AUTHORISATIONS

Report of: Roisin OSullivan, Manager Commercial Operations + Property (Acting)
Authorised by: Kerry Hunt, Director Community Services - Creative and Innovative City

ATTACHMENTS

- 1 Cleveland Road Staging Plan
- 2 Proposed Easements and Restrictions Stage 2 Electrical Utility Plan

BACKGROUND

Cleveland Road is currently a rural-standard road servicing 20 rural dwellings. While the level of service currently provided by this infrastructure is acceptable for the small number of landholders, this road would not be able to safely cater for the increased demand associated with the more than 4,000 planned new dwellings forecast to be constructed within Stage 3 of West Dapto Urban Release Area (WDURA).

Council has received funding from the NSW Government under the Restart NSW program for the construction of Stages 1, 2 and 3 of the Cleveland Road Upgrade Project. The Staging Plan is shown in Attachment 1 to this report.

The upgrade of this road from a rural-standard to urban-standard road will include new kerb and gutter, stormwater works, shared paths, street lighting and utility relocations. Existing electrical utilities are to be relocated to facilitate the project, which includes undergrounding of electrical infrastructure on private property, and installation of new electrical infrastructure as part of the network connections.

In accordance with Endeavour Energy's Guidelines for Network Connection Works, it requires the establishment of easements and restrictions of the use of land for installation of network assets in, on or over land. As the distribution system lessor is Epsilon Distribution Ministerial Holding Corporation (EDMHC), the proposed grant of easements and restrictions must be granted to or vested in EDMHC, which in turn is exercised by the distribution system lessee Endeavour Energy Network Asset Partnership (EENAP) and its nominee Endeavour Energy, who is responsible for performing any obligations of EDMHC.

As Council has proposed the upgrading of the road to facilitate and service the additional dwellings associated with Stage 3 of the WDURA, Endeavour Energy is entitled to impose conditions on Council as the works impact existing electrical utilities – at no cost to Endeavour Energy.

512



Ordinary Meeting of Council

It is noted that the proposed road upgrade cannot proceed in its current form without the approval from Endeavour Energy, which can only be overcome with the grant of these easements and restrictions.

Attachment 2 to this report shows the proposed easements and restrictions over the Property as detailed below:

- Easement (A) and restrictions (B) and (C); relate to a proposed Padmount substation, which will likely form a connection for future development of the Property. The substation has been located adjacent to the existing 132kV overhead electrical transmission easement to minimise any possible impacts on the Property.
- Easements (D) and (E) for underground cables 3.0 metres wide and 5.0 metres wide respectively are required to reconnect relocated underground electrical assets to existing overhead 33kV electrical assets which traverse the Property heading south.
- The final location of the proposed easements and restrictions are subject to final survey.

The proposed easements will have no impact upon the current use and amenity of the Property, which is currently held under agistment licence and administered by Council.

Council will not be seeking payment of compensation for the grant of the easement (in accordance with its Land and Easement Acquisition and Disposal Policy) from Endeavour Energy as Council's upgrade of Cleveland Road Stage 2 works necessitates the relocation of network electrical assets - placing the burden of replacement or relocation on Council.

PROPOSAL

It is proposed that Council approve the grant of easements and restrictions of the use of land for the Padmount substation and relocated underground cables variable widths over Council's land at Lot 3 DP 1313641 located off Cleveland Road, Cleveland in favour of EDMHC as shown on the Attachment 2 to this report.

CONSULTATION AND COMMUNICATION

- Infrastructure Strategy + Planning and Project Delivery Team
- Urban Release City Strategy Team
- Land Use Planning City Strategy Team
- Infrastructure Strategy + Planning Civil Assets Team •
- Infrastructure Strategy + Planning Transport Planning Team
- Development Assessment Certification Development Engineering Team

No objections from the relevant Council teams to the proposed grant of easements and restrictions on the use of land were received. As the land is classified as operational land pursuant to the Local Government Act 1993 (NSW), Council is not required to provide Statutory Notice of the proposed grant of easements or restrictions pursuant to the Act.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 goal 'We have sustainable accessible and affordable Transport' and 'We have a healthy community in a liveable city'.

The report is in accordance with Council's Land and Easement Acquisition and Disposal Policy. It specifically delivers on core business activities as detailed in the Property Services Service Plan 2024-25 and works towards delivering the future goal 'Plan and provide sustainable infrastructure for safe and liveable places integrated with the environment and accessible to key transport routes.'

FINANCIAL IMPLICATIONS

Council will be responsible for all costs associated with the creation of easements and restrictions on the use of land including survey, plan lodgement fees and legal costs, and any other costs associated with the grant/registration of the easements and restrictions.

The funding source for all costs associated with the grant of easements and restrictions on the use of land, will be split, and partly funded from the Restart NSW Grant and partly funded from Section 7.11 West Dapto Development Contributions Plan.

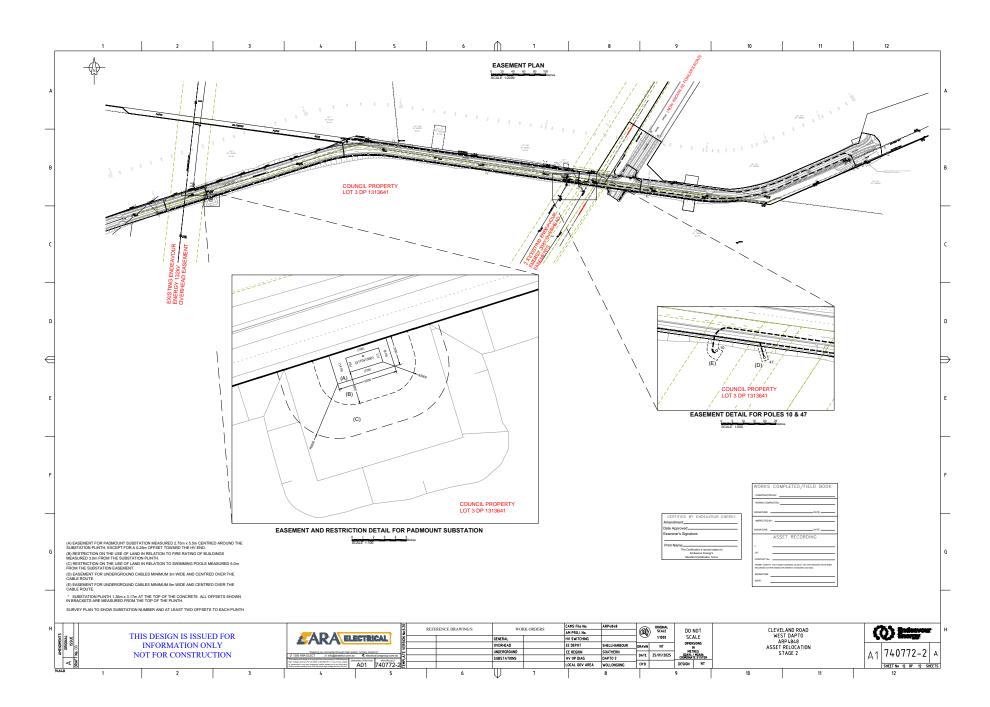
CONCLUSION

The proposed grant of easements and restrictions on the use of land will facilitate the utility approvals necessary for Stage 2 of Cleveland Road Upgrade Project, therefore, it is recommended Council resolves to grant the easements and restrictions as proposed over the Property.











ITEM 6 POLICY REVIEW - PUBLIC ART COUNCIL POLICY

The Public Art Council Policy supports the endorsed Animating Wollongong – Public Art Strategy 2022 – 2032 and establishes processes and procedures for public art delivery and administration across commissioning and acquisition of works, collection management, budget and roles and responsibilities.

A review of the Public Art Council Policy has been undertaken resulting in it being recommended for recategorisation as a management policy under the Council Policy Framework, due to the mainly procedural nature of the content.

RECOMMENDATION

Council endorse the recategorisation of the Public Art Council Policy as a Public Art Management Policy.

REPORT AUTHORISATIONS

Report of: Sue Savage, Manager Community Culture + Engagement

Authorised by: Kerry Hunt, Director Community Services - Creative and Innovative City

ATTACHMENTS

- 1 Current Public Art Council Policy for Recategorisation
- 2 Animating Wollongong Public Art Strategy 2022-2032

BACKGROUND

Since the last adoption of the Public Art Council Policy (Policy), Council has implemented a Policy Framework that provides guidance on the development of appropriate policy and procedure documents and for the appropriate categorisation of all Council documents into four main types. Those categories are Council Policies, Management Policies, Procedures and Work Instructions. The implementation of the framework provides an opportunity to reduce the number of policies in the Council's policy register by identifying genuine policy position documents, as opposed to those that are more operational or procedural by nature. The Policy has been reviewed against this framework and, due to the mainly procedural nature of the document, it is recommended for recategorisation as a Management Policy.

The Policy supports the endorsed, Animating Wollongong – Public Art Strategy 2022 – 2032 (Strategy). The Strategy guides the Council's creative and strategic planning to effectively respond to the opportunities and challenges for public art in our city. It includes four key areas of focus: Engagement and Experience, Place, Artform and Materiality and Infrastructure and Planning. All of which are underpinned by a series of actions for implementation.

The Policy establishes processes and procedures for public art selection, delivery and administration across commissioning and acquisition of works, collection management, budget and roles and responsibilities. It ensures consistency and accountability in how public art is developed and delivered in line with the Strategy direction.

PROPOSAL

Due to the strong procedural focus of the Public Art Council Policy it is recommended that it is recategorised as a Management Policy.

The procedural nature of the document is demonstrated through the Policy objectives including defining procedures and processes, conservation and maintenance and budget planning. This is laid out in a procedural list including: Action Plan, Budget Allocation, Guidelines for selection of Public Art, Role of the Public Art Working Group and Public Art Advisory Panel, Project Management and Annual Public Art Program.

CONSULTATION AND COMMUNICATION

Governance and Risk

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 3 'Wollongong is a creative and vibrant city'.

It specifically delivers on core business activities as detailed in the Cultural Services Business Plan.

SUSTAINABILITY IMPLICATIONS

Sustainability is considered within the Policy when making decisions associated with commissioning and managing the public art collection and program. Outdoor environmental conditions for public art need to be considered with a view to balancing the conservation of the public art collection and maintenance of public art programs with available resources and sustainability such as the need to reduce Council's energy use and carbon footprint.

RISK MANAGEMENT

Policies are only recommended for recategorisation from Council to Management policies if they are more procedural in nature, or appropriate provisions have been incorporated into another suitable document. All policies classified as Management policies under the Policy Framework continue to be reviewed regularly, similar to Council policies.

This Policy is generally procedural in nature and is directed by the Animating Wollongong - Public Art Strategy 2022 - 2032, providing the strategic direction of the Public Art portfolio and endorsed by Council.

Community had the opportunity to engage with Council's approach to Public Art when the Strategy was being developed in 2022 and they will have that opportunity again in 2027 when it is being reviewed. Community was also able to engage with Council's approach to Arts and Culture more broadly during the engagement for Council's Arts and Cultural Strategy, Creative Wollongong 2024 - 2033 and will have that opportunity again in 2029.

FINANCIAL IMPLICATIONS

There are no direct financial implications for this report, however administrative efficiencies may be achieved by the reduction in the number of policies adopted by Council.

CONCLUSION

This Council Policy has been reviewed against the Council Policy Framework and it is recommended for recategorisation as a Management Policy. Council and community will continue to have visibility over the direction and intent of the Public Art Portfolio through the endorsed Strategy, while the intent of the Policy will not materially change.





ADOPTED BY COUNCIL: 27 JUNE 2016

BACKGROUND

Public art has a long term impact on a City and a community by expressing local identity and distinctiveness, revitalising and animating public space, enhancing the local economy and developing community spirit and pride. The Public Art Policy is supported by Animating Wollongong: Public Art Strategy & Guidelines 2016 - 2021.

OBJECTIVE

The main objectives of this Policy are to:

- Define procedures and processes for public art projects that enhance the public space and cultural life in the City.
- Facilitate a regular program of temporary and permanent public art for the City which is integrated with the area's rich urban and rural character and cultural heritage.
- Conserve and maintain the City's existing public art collection.
- Commission authentic, socially engaged and site specific contemporary artwork for the City.
- Provide employment and professional development opportunities for local artists.
- Integrate public art into budget planning and design of Council's annual capital works program to add social, cultural, environmental and economic value to natural and built public assets.
- Encourage and provide leadership by example in the inclusion of integrated cultural planning and public art commissioning in the private sector.

POLICY STATEMENT

The aim of this Policy is to provide a framework to develop outstanding public art to enhance the unique identity and contemporary image of Wollongong.

COMMUNITY VISION

From the mountains to the sea, we value and protect our natural environment and we will be leaders in building an educated creative and connected community.



COUNCIL POLICY

STATEMENT OF PROCEDURES

Public art has long-term impact on a city and a community by:

Expressing local identity and distinctiveness

- Makes the City a vibrant and interesting place in which to live, work and visit.
- Acknowledges unique aspects of local history, heritage and culture.
- Celebrates what makes a place special: the identity, history, environment and diverse communities of Wollongong.
- Represents creative innovation and contemporary image.

Revitalising public space

- Improves the visual amenity and social activity of public spaces elevating the City from the mundane to the memorable.
- Creates a sense of engagement with and ownership of public environments.
- Increases community access to and use of public facilities.
- Enhances neglected areas of the City to improve community safety and amenity.

Enhancing the local economy

- Creates tourist destinations; increases authentic cultural tourism.
- Employs and trains artists, artisans, creatives and local businesses.
- Encourages innovation in design and manufacture.
- · Creates new cultural product.

Developing community spirit and pride

- Encourages residents and visitors to explore and value the heritage and contemporary life of the City.
- Contributes to the reconciliation process with Aboriginal and Torres Strait Islander communities.
- Acknowledges a diverse and complex cultural life and fosters community harmony.

VALUES

- We will showcase Wollongong's unique and rich indigenous and multicultural heritage to residents and visitors.
- We will ensure commitment to artistic excellence and diversity in all commissioned and acquired public art
 works.
- We will work in partnership with planners, designers, architects, community, organisations and government to enhance the quality of Wollongong's public spaces.

SCOPE OF THE POLICY

The following sections outline the different applications of the Policy in creation of new works and conservation of existing works:

1 New Works: all new commissions or designs in public spaces

- Council will encourage and support the creation of high-quality, best-practice and imaginative artworks that contribute to the image and identity of the City.
- Council will commission and construct site specific work to enhance the local precincts and commemorate significant events.
- In planning new works Council will support the development of public artworks in conjunction with Council
 developments including streetscape works, landscaping of parks and playgrounds, transport and tourist routes,
 gateway sites and community facility capital improvements.
- Council will encourage implementation of quality public art practice in the local private sector and in partnerships with state and federal agencies.



COUNCIL POLICY

- Council will encourage public art opportunities in the development approvals in the Local Government Area (LGA).
- Public art programs will be incorporated where relevant into Council's strategic plans of management and development control plans.
- · Community and stakeholder consultation will be an integral component of the commissioning of New Works.

2 Collection Management: maintenance and conservation program for existing works

- Council will formally recognise the public art collection as a major City asset. It is a collection requiring
 professional standards of management, care and conservation to ensure its preservation for future
 generations.
- Community Cultural and Economic Development will maintain a database/register to document and catalogue all cultural objects in the current collection.
- All items in the collection will be linked to the National Register of Sculptures, Monuments and Outdoor Cultural Material.
- Council will conserve and maintain artworks in accordance with a maintenance schedule recommended by a conservator or developed by the artist for each artwork.
- Council will implement preventative strategies to protect our public art works, ie anti-graffiti sealant, selective screen planting.
- Council will accept gifts or bequests of public art only if they meet the guidelines within the Animating Wollongong Public Art Strategy & Guidelines 2016 2021.

DEFINITIONS

What is public art?

Public art can broadly be defined as 'the process of engaging artists' creative ideas in the public realm. This definition of public art encapsulates a diverse and flexible scope for public art projects.

There are three types of public art:

- **Ephemeral** art works are designed to slowly disintegrate over time due to the nature of the materials and their interaction with the surrounding environment.
- **Temporary** art works are generally designed to last between 0 5 years. These may include performance-based works, temporary installations etc. The commissioning of temporary public art, sometimes on an ongoing platform, provides new points of interest to Wollongong's communities, opportunities for emerging artists and as a whole; it is more affordable than permanent works of art.
- **Permanent** works are generally intended to last between 5 15 years or occasionally longer depending on the durability of the materials, and the ongoing relevance of the work. For example a "permanent" wall mural is likely to last for 5 6 years while a steel sculpture is likely to last up to 15 years or longer.

PROCEDURES

1 Action Plan

The implementation of the Public Art Program will involve the following stages:

- Identify annual funds available.
- Form a Public Art Advisory Group and a Public Art Working Group.
- Develop an annual Public Art Program.
- Adopt guidelines for selection.
- Implement a system for public art management.
- Evaluate projects and processes.



COUNCIL POLICY

All issues and matters relating to public art within Wollongong are to be referred in the first instance to Cultural Services within the Community Cultural and Economic Development Division.

These matters will be either referred to the Public Art Working Group or, if more appropriate, to the Public Art Advisory Panel.

Council will identify public art/placemaking opportunities as part of the Corporate Plan and Annual Budget.

2 Budget Allocation

Council recognises that best-practice public artworks can only be achieved through the allocation of sufficient budgets to ensure quality outcomes. Council will continue to work in partnership with other government and corporate bodies to develop funding partnerships for public art projects.

The annual budget allocation will be identified as a specific line item within the Community Cultural and Economic Development budget. The Public Art Advisory Group will convene to consider available funding according to the annual Public Art Strategy 2016 - 2021.

3 Guidelines for Selection of Public Art

Evaluation and approval of all public artworks proposed by the City of Wollongong, the private sector, other public authorities, individuals and other groups in the City of Wollongong LGA is based on the following criteria:

- Relevance to the objectives and actions of Wollongong 2022, Wollongong City Council Cultural Plan 2014 -2018, Animating Wollongong, Wollongong Public Art Strategy & Guidelines 2016 – 2021.
- Standards of excellence and innovation.
- The integrity of the work.
- Relevance and appropriateness of the work to the context of its site.
- Consistency with current planning, heritage and environmental policies and plans of management.
- Consideration of public safety and the public's access to and use of the public domain.
- Consideration of maintenance and durability requirements.
- Evidence of funding source and satisfactory budget including an allocation for ongoing maintenance.
- Non-duplication of monuments commemorating the same or similar events.

4 Role of the Public Art Working Group and Public Art Advisory Panel

The Public Art Working Group will facilitate internal consultation and liaison to ensure alignment of public art projects with the Public Art Strategy, Policy and major capital works projects across the LGA.

The Public Art Advisory Panel will be guided by an appropriate term of reference and is to provide:

- Advice on the strategic direction, policy and public program matters related to public art.
- Advice on the development of public art projects and the acquisition of public artworks.
- The de-accession, relocation, removal and disposal of public artworks.

5 Project Management

A project manager will be identified for each public art project. This person will ideally be a Council officer with expertise and experience in public art management and arts and cultural development from the Cultural Services section and/or external public art consultants.

6 Annual Public Art Program

This will outline priority public art projects to be implemented to ensure that:

- Opportunities for public art development are identified early in the planning process.
- A transparent process for assessment and selection is established.
- Consultation with key stakeholders in the community and Council occurs.



PUBLIC ART COUNCIL POLICY

- Key projects, sites, locations, concepts and themes for public artworks are identified.
- There is a broad spread of activities across the annual Public Art Program.
- Opportunities for public art are integrated across a range of Council functions.
- Maintenance/major repairs and conservation requirements are addressed.

DECOMMISSION OR RELOCATION OF PUBLIC ARTWORKS

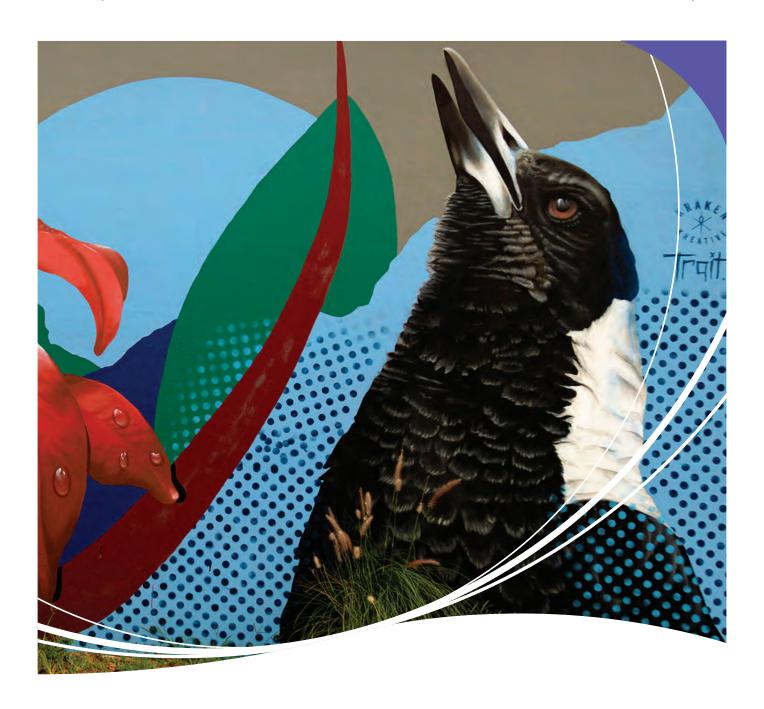
Council will undertake a review of its public art work assets every 5 years to assess the value of the asset life. The decision to decommission public artwork will be informed by the asset management and maintenance framework relevant to each public artwork and conditions outlined in the original contract. The Public Art Advisory Panel will assess a request for decommissioning and make a recommendation regarding the item.



COUNCIL POLICY

SUMMARY SHEET		
Responsible Division	Community Cultural and Economic Development	
Date adopted by Council	27 June 2016	
Date of previous adoptions	15 December 2003	
Date of next review	December 2021	
Legislative or other requirement for review	Review concurrently with review of Public Art Strategy	
Responsible Manager	Community and Cultural Development Manager	
Authorised by	Manager Community Cultural and Economic Development	





Wollongong City Council

Animating
Wollongong Public Art Strategy
2022-2032





Acknowledgement of Country

Image: Lorraine Brown & Narelle Thomas, Place of Healing and Wellbeing. Hooka Point Park

We acknowledge the Traditional Custodians of the land on which our city is built, Dharawal Country. We recognise and appreciate their deep connection to this land, waters and the greater community. We pay respect to Elders past, present and those emerging and extend our respect to all Aboriginal and Torres Strait Islander people who call this city home. We recognise Aboriginal and Torres Strait Islander people as the first people to live in the area. We respect their living cultures and recognise the positive contribution their voices, traditions and histories make to the city.







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Lord Mayor's Message

Public Art plays an important role in our city - it can stir debate, create a sense of space, and celebrate cultural diversity and expression.

By encouraging discussion and debate, public art evokes subjective responses, views, and diverse opinions. It's all part of public art's place in any engaged and democratic community.

Across our city we have a wide variety of public art that, we're proud to say, is accessible to everyone.

These works in our public spaces provide equal opportunity to enjoy direct and ongoing encounters with art. The availability of art can be a key factor in establishing a unique and culturally active place, not only creating civic icons, but also transforming our playgrounds, train stations, community centres, parks, business districts, and suburbs into more vibrant expressions of human imagination.

Places with integrated public art create a unique focus, and give communities a stronger sense of place, identity and ownership. Art activates our imagination and encourages a sense of community identity, connectedness, and wellbeing.

The opportunity to develop new public art supports artists and creatives within our community, and beyond. It showcases their important contribution to the city fabric and supports cultural tourism, attracting new and visiting populations, with direct economic benefit to the region.

However, public art doesn't just happen - it needs direction and a purpose. This strategy will provide a foundation and blueprint to guide Council's ongoing improvements and refining of strategies, processes, and practices that deliver valuable and meaningful public art projects for our city.

Wollongong City Lord Mayor Councillor Gordon Bradbery AM





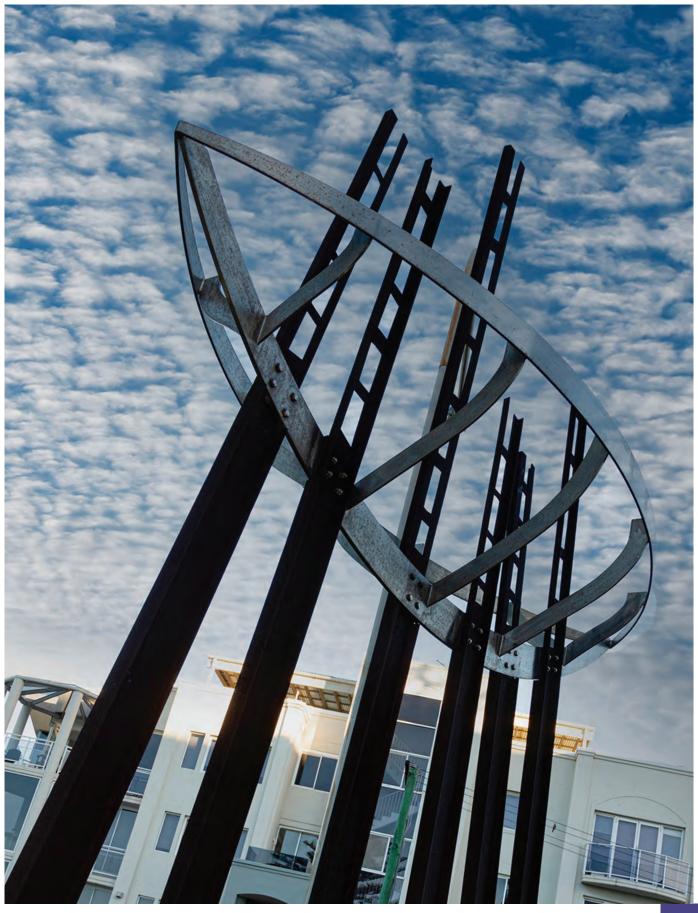


Image: Nerine Martini, The Migration Project. George Dodd Reserve





This strategy has been developed to articulate why and how Council is involved in public art, what Council seeks to achieve by supporting and investing in public art, the principles that guide Council's actions, the various roles Council plays and the context within which decision making for public art takes place.

Council recognises the value of incorporating arts and culture across the early planning, construction, and management of urban centres. Evolving community demographics, and new residential areas being developed specifically in West Dapto,

make it essential that a new Public Art Strategy, reflecting current social changes and community needs, technological advancements, and future planning, be developed.

To ensure best practice outcomes for Public Art, Council is committed to incorporating it into masterplanning for town and city centres and open spaces. Sustainability and environmental factors will be considered, and collaborative and partnership models to develop new public art works will be explored.









Image: Col Henry, Sea Chanty. Holborn Park Berkely





How has this strategy been developed?

Image: Laura Nolan, Evolve. Wollongong Botanic Garden

Stage 1

Development of the Strategy's Guiding Principles in consultation with the Public Art Advisory Panel

Stage 2

Draft Principles placed on public exhibition for community feedback

Stage 3

Strategy integration with Council's existing Community, Cultural and Economic Development Plans, incorporating internal specialist knowledge and expertise and community feedback on Guiding Principles

Stage 4

The Draft Strategy placed on public exhibition to receive community feedback

Stage 5

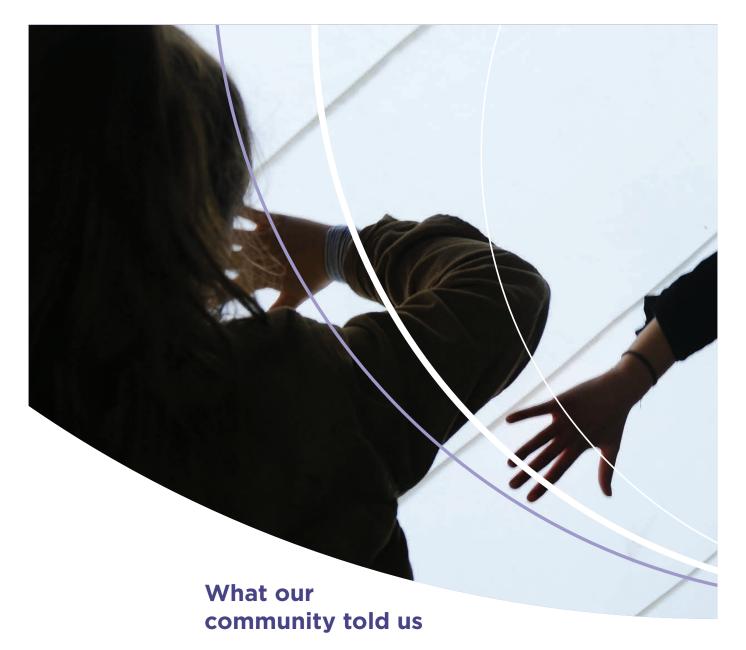
Final revision of the strategy including community feedback

Stage 6

Endorsement by Council

The endorsed strategy will inform Council's performance planning processes and practice on Public Art for the next 10 years.





During the development of both this strategy and a range of Council strategic plans and documents including Creative Wollongong and the Community Strategic Plan, our community have shared their thoughts and ideas about public art in Wollongong.

They have told us that they care about living in a creative and vibrant city and understand how the arts are important to community life. Our community enjoys the way public art brings culture and introduces new ideas into everyday lives. Many supported a cohesive and coordinated approach, and a strong creative vision that celebrates local stories, people and heritage.

Through the feedback on the Public Art Principles and the Strategy itself, we heard the importance of putting Wollongong at the heart of our approach, art that reflects our place and our community. Providing opportunities for our community to explore, learn about and enjoy public art is important, as is continuing to provide opportunities for local artists and creatives.

We've heard people love our street art and want to see more permanent and temporary artworks in all forms, across the suburbs as well as the city. There is community support to create art trails in different locations across the Wollongong area, including along the Blue Mile and our coastlines, and other public places. People also want to see public art in Wollongong continue to





engage our community about public art

in Wollongong.



What is Public Art?

At its most basic, public art is any art produced for, and presented in, a public space.

What distinguishes public art, is the unique association of how it is made, where it is placed, and what it means. Public art can express community values, enhance our environment, transform a landscape, or question our assumptions. Placed in public sites, this art is unrestricted and there for everyone to experience.

Public art is not an art "form". It can be permanent, temporary, or ephemeral. It can be huge or small. It can tower into the sky or call attention to the paving beneath our feet. Its shape can be abstract or realistic (or both), and it may be cast, carved, built, assembled,

or painted. It can be site-specific or stand in contrast to its surroundings. Public art can be video, light, or sound based. It can be digital, virtual, or online. It can be decorative and/or performative. Public art can stand alone or be many things at once.

Art by its nature is subjective and in a diverse community, cannot appeal to all people, nor should it be expected to do so. This is equally true for public art. As our community and modes of expression evolve, so will our definitions of what public art is and can be. Over time, materials and methods change to reflect our contemporary culture and can, at times, cause controversy. A variety of opinions is inevitable, and a strong sign of a healthy, open, and engaged community.



Image: Karla Haves, Mural, Fairy Meadow





Image: Alison Page & Tina Lee with Lorraine Brown, Ali Day, Bonny Foley-Brennan, Debbie Hamstead-Callaghan, Val Law, Lila Lawrence, Jodie Stewart, Phyllis Stewart & Narelle Thomas, Six Daughters of the West Wind, Mt. Keira





Public Art in Wollongong

There is far more to Wollongong than its beautiful beaches, lush green bushland, and rich and diverse community. Wander around and talk to the residents and you may be surprised to learn of the amazing murals, coastline sculptures, creative cultural hubs and intriguing public art works purposefully embedded throughout the region, engendering a sense of ownership and pride in the community.

Currently Wollongong has over 170 permanent pieces of public art on display across the Local Government Area. Created by local, national, and international artists, artworks are scattered in and about our suburbs and towns, open spaces, streets, and buildings. Adding to this, are the many temporary and ephemeral public art pieces that have been created for events and celebrations.





Image: Mike Hewson, Illawarra Placed Landscape, 2019, Crown Street Mall





Guiding Principles

The following five guiding principles were developed by the Public Art Advisory Panel and are the foundation of this strategy. We will use them to guide the delivery of, and underpin the objectives and actions, outlined in this document.

Belonging

Connect our public art to our unique Wollongong identity, and use it to celebrate and value all our diverse communities

Opportunity

Sparking and nurturing our creative community through investment, entrepreneurship, and advocacy

Place

Create meaning through site specific works that identify and interpret our unique environments and rich histories to enhance our public places

Value

Amplify our public art through brave and inspirational themes to capture the spirit of Wollongong and its people

Elevate

Lead the way, through challenging and inspiring public art that embraces contemporary media and is influenced by local, national, and international ideas







Image: Braham Stevens, Eye on the Horizon. Hill 60 Reserve



Our Way Forward

Key opportunities and challenges for Public Art in Wollongong have emerged through the development of this strategy. The many overlapping themes have been divided into 4 key focus areas which will underpin key actions, identified for delivery over the next 10 years

Engagement and experience

- Ensure opportunities for the community and visitors to enjoy and connect to our public art collection.
- Continue to include community perspectives through the external Public Art Advisory Panel.
- Ensure transparent processes for the selection and development of public art across the Wollongong City area.
- Support and provide opportunities for artists and creatives through the creation and renewal of public artworks, and through mentoring programs for young and emerging artists.

Place

Building on the opportunity for public art to create meaning, identity, and a sense of place:

 Continue to develop a program reflecting the region's cultural diversity, including First Nations history and story.

- Strengthen the links between our public art program and Wollongong's spectacular environment.
- Reflect the unique character of our suburbs through the delivery of new permanent and temporary public art.
- Enhance place through public art by providing creative and engaging experiences.

Artform and materiality

Acknowledge traditional artforms, while also promoting new and emerging technologies and contemporary art practice in the creation of exciting, permanent, temporary, and ephemeral public art works in unexpected places.

Infrastructure and Planning

Continue to work across the LGA to embed public art into the development process in private and public developments.

- Streamline approval processes for public art.







Image: Smug One, Mural. Wonderwalls 2017, Full set Festival. Globe Lane Wollongong





Public Art Process

Every year Wollongong City Council makes decisions as to what type of public art to deliver and where it should be placed. Planning for public art that is appropriate, relevant, and meaningful for our city and diverse community involves a complex decision-making, curatorial process.

This work is carried out by Wollongong City Council staff, aided by the Public Art Advisory Panel.

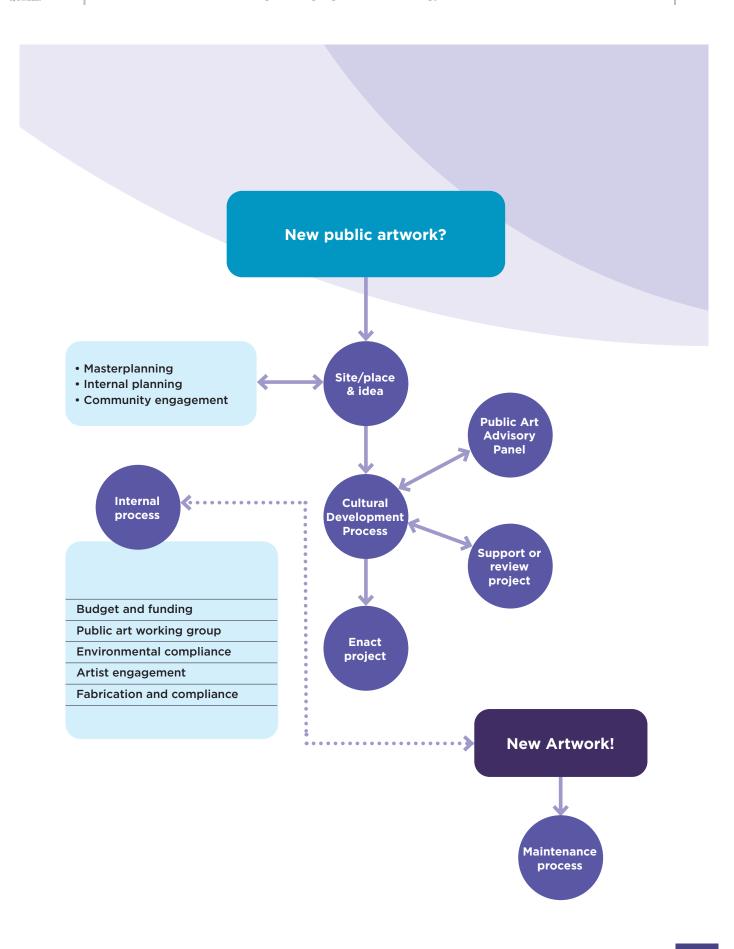
The Public Art Advisory Panel (PAAP) is recruited through an open expression of interest, bringing together a diverse mix of industry experts and community members to provide independent advice and recommendations on

the implementation of the public art strategy, policies, projects and programs.

Carefully considered practical decisions such as selecting the right artist for the right location, the cost of the artwork, its ongoing maintenance after installation and its permanence or time in the public domain are also important considerations in the curatorial process.

Wollongong City Council is committed to facilitating public art that is not only aesthetically dynamic, but can also inspire, resonate within its surroundings, stimulate discussion, and invite engagement. It requires examination of need, of materiality and accessibility.









Public art in Wollongong isn't always permanent.

Temporary artworks have been activated as part of festivals, exhibitions and events. These works can be used as a form of celebration, placemaking and to engage communities. Ghost Trees by Greer Taylor was a site-specific work that invited visitors to Sculpture in the Garden in 2021 to embroider a 'memory ribbon' and plant a 'ghost tree' in response to the then recent bushfires. Over 300 people of all ages contributed to the ephemeral artwork which grew over a 5 week period.

Image: Greer Taylor, Ghost Trees. Wollongong Botanic Garden

Sculpture in the Garden.

A biannual public art project which was established in 2013, presents a temporary exhibition of site-specific sculpture created by a variety of local, national, and international artists. In 2021 the Wollongong Botanic Garden saw over 30,000 people visit the exhibition and engage in the associated programs.





Image: Fatih Semiz, Curious Dream of an Architect. Wollongong Botanic Garden



Key actions and measurements

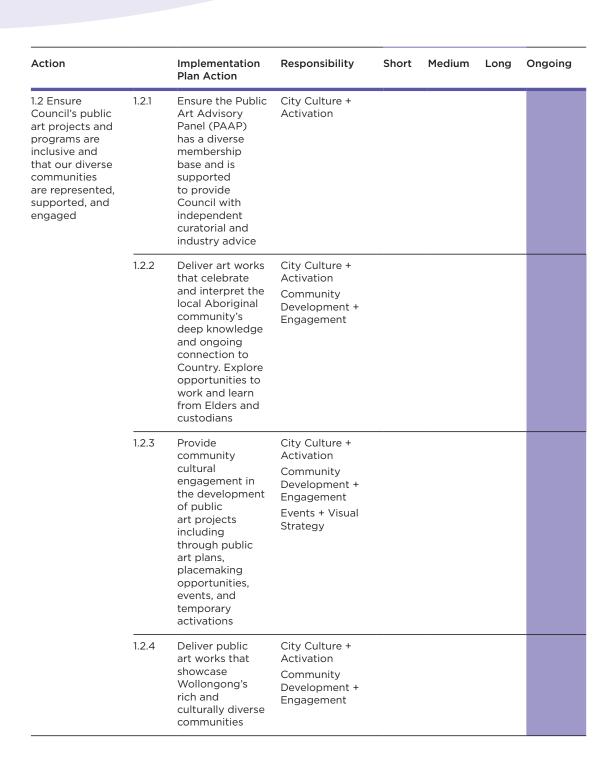
Animating Wollongong - Public Art Strategy Actions 2022-2032

1. Engagement and Experience

Public art provides relevant and exciting experiences that are available for all to enjoy

Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
1.1 Improve information and communications about the public art collection	1.1.1	Develop a digital image bank of the Public Art Collection and other major artworks within Wollongong's public domain for promotional and activation use	Events + Visual Strategy City Culture + Activation				
	1.1.2	Reflect Council's involvement with public art through communications and messaging	City Culture + Activation Communications + Marketing				
	1.1.3	Improve opportunities for, acknowledge and promote the work of local creatives and organisations delivering public art outcomes	City Culture + Activation Communications + Marketing				
	1.1.4	Deliver improved marketing and promotion of public art	City Culture + Activation Communications + Marketing				







Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
	1.2.5	Develop public art professional practice opportunities, ensuring accessibility and inclusion for diverse communities	City Culture + Activation Community Development + Engagement				
	1.2.6	Require public art innovation, development controls and public art opportunities for private developers	City Culture + Activation City Strategy				
1.3 Investigate funding opportunities for public art	1.3.1	Seek out external partnerships, collaborations, and sponsorship opportunities to support public art across the Wollongong LGA	City Culture + Activation				
	1.3.2	Identify and develop grant and external funding opportunities that can deliver new public art opportunities across the Wollongong LGA	City Culture + Activation				
1.4 Ensure opportunities for public art are diverse and engaging	1.4.1	Deliver Sculpture in the Garden	City Culture + Activation Open Space + Environmental Service				
	1.4.2	Review Sculpture in the Garden	City Culture + Activation Open Space + Environmental Service				
	1.4.3	Explore opportunities for nature based Public Art in Council's open spaces, parks and reserves	City Culture + Activation Open Space + Environmental Service				



Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
	1.4.4	Investigate additional social media channels to broaden audience and artist reach	City Culture + Activation Communications + Marketing				
	1.4.5	Develop and market a new public art trail via an accessible platform or format	City Culture + Activation Events + Visual Strategy Communications + Marketing				

2. Place

Public Art is embedded in citywide placemaking

Animating Wollongong - Public Art Strategy 2022-2032 • Wollongong City Council

Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
2.1 Explore opportunities for public art to be delivered across the Local Government Area	2.1.1	Ensure opportunities for public art to be delivered as part of West Dapto Urban Release Area	City Strategy				
	2.1.2	Develop a West Dapto Public Art Plan	City Culture + Activation				
	2.1.3	Ensure opportunities for public art to be delivered as part of the development of the Grand Pacific Walk Heritage Interpretation Strategy	City Culture + Activation				
	2.1.4	Develop a process for public art curation, ensuring that new and renewed works are distributed based on need, merit, and community engagement	City Culture + Activation				



Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
	2.1.5	Ensure embedded and temporary infrastructure for public art is included in new community facility developments, including Warrawong and Helensburgh library and community facilities	Library + Community Services City Strategy Infrastructure Strategy + Planning				
	2.1.6	Continue to develop and deliver on the Hill 60 Masterplan. With public art additions to the Ngaraba-aan Art Trail	Property + Recreation				

3. Artform and Materiality

Ephemeral, temporary and/ or permanent Public Art is embraced

Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
3.1 Continue to develop and deliver new and exciting diverse public art across the City and suburbs	3.1.1	Continue to explore new spaces and places for temporary art activations, including events, billboards, town centre infrastructure and suburban placemaking	City Culture + Activation Community Development + Engagement Infrastructure Strategy + Planning Events + Visual Strategy				
	3.1.2	Establish and promote a creative hoardings program as a quick and low-cost option to enhance public spaces and support local and emerging artists	City Culture + Activation Development Assessment + Certification				



Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
	3.1.3	Continue to explore new ways for public art to enhance place across a range of artforms, materials and activities	City Culture + Activation				
	3.1.4	Manage and maintain the city's collection of public artworks to ensure their long-term vibrancy and safety	City Culture + Activation Open Space + Environmental Service				
	3.1.5	Review and update the process and policy for repair, replacement and deaccession of public art works	City Culture + Activation				

4. Infrastructure and Planning

Public art is embedded and coordinated across new developments and projects

Animating Wollongong - Public Art Strategy 2022-2032 • Wollongong City Council

Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
4.1 Ensure the ongoing management and future planning for public art is sustainable, equitable and meets industry best practice	4.1.1	Review and update the Public Art Management Policy	City Culture + Activation				
	4.1.2	Create and promote a Public Art Toolkit to ensure all new public art projects align with the Public Art Management Policy and Public Art Strategy	City Culture + Activation				



Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
	4.1.3	Audit and review the Public Art Collection and other major Council-led public art projects including murals, to enable future and ongoing maintenance and data collation	City Culture + Activation				
	4.1.4	Communicate across Council to ensure all public art projects are planned, processed and delivered consistently	City Culture + Activation				
4.2 Integrate Public Art into Strategic and Statutory Planning controls and processes	4.2.1	Explore ways to reduce public art's environmental footprint and support its equitable distribution	City Culture + Activation				
	4.2.2	Progress draft LEP design excellence clauses with the inclusion of public art as a matter for consideration within City Centre and key site development	City Strategy				
	4.2.3	Investigate opportunities to include requirements for Public Art Plans and public art in precinct scale development across the LGA	City Strategy				





Action		Implementation Plan Action	Responsibility	Short	Medium	Long	Ongoing
	4.2.4	Integrate public art opportunities when undertaking Town Centre Plans in line with the Public Art Toolkit	City Strategy				
	4.2.5	A provision or clause be included in the draft Wollongong City Centre DCP chapter addressing requirements for Public Art to be incorporated into larger developments	City Strategy				
4.3 Set the standard for integrating public art into Council design and implementation processes, including	4.3.1	Identify opportunities for public art in masterplans and ensure rationale and budget is included from the business proposal stage	City Strategy City Culture + Activation				
infrastructure delivery and whole of life asset management principles	4.3.2	Integrate public art as an element of major Council infrastructure projects in line with the Public Art Management Policy	Infrastructure Strategy + Planning				
	4.3.3	Create opportunities for input, expertise and leadership from the creative community into Council design and implementation processes for public art	City Culture + Activation				





How will Wollongong City Council communicate on the progress of Animating Wollongong - Public Art Strategy 2022-2032?

Council will monitor progress against the strategic actions through quarterly and annual reporting processes. For further information contact: culturaldevelopment@wollongong.nsw.gov.au







Image: Ken Unsworth, Nike. MacCabe Park





From the mountains to the sea, we value and protect our natural environment and will be leaders in building an educated, creative, sustainable and connected community.

We value and protect our environment We have an innovative and sustainable economy Wollongong is a creative, vibrant city

We are a connected and engaged community We have a healthy community in a liveable city We have affordable and accessible transport



Wollongong City Council wollongong.nsw.gov.au Phone (02) 4227 7111













ITEM 7

APPOINTMENT OF COUNCILLOR DELEGATE TO THE ILLAWARRA BUSHFIRE MANAGEMENT COMMITTEE

Council is entitled to representation on a number of groups and committees. Councillors are appointed as a representative of Council by resolution of Council. Cr David Brown recently resigned as delegate to the Illawarra Bushfire Management Committee. This paper is to appoint a replacement Councillor member to represent Council.

RECOMMENDATION

- 1 A Councillor representative be appointed to the Illawarra Bushfire Management Committee where only one nominee is provided.
- Where the number of nominations is greater than the number of available appointments, an election will be held to fill the vacancy, with the election to be conducted by open means on a show of hands

REPORT AUTHORISATIONS

Report of: Todd Hopwood, Manager Customer and Business Integrity

Authorised by: Renee Campbell, Director Corporate Services - Connected + Engaged City

ATTACHMENTS

There are no attachments for this report.

BACKGROUND

Councillors have been provided with the opportunity to submit nominations for the Illawarra Bushfire Management Committee. Any nominations received as at the date of publishing of this report have been noted in the below table. Further nominations can be made from the floor when considering this item.

Attachment 3 of Council's adopted Code of Meeting Practice stipulates that voting for the appointment of Councillor Delegates to Committees and External Bodies is to be by open means, on a show of hands.

ORGANISATION	COUNCILLOR REQUIREMENT	TERM	PRIOR DELEGATES	NOMINEES 2025			
ILLAWARRA BUSHFIRE MANAGEMENT COMMITTEE							
A Bush Fire Management Committee (BFMC) provides a forum for cooperative and coordinated bushfire management in a local area.	One delegate of Council (Mayor, Councillor or	Term of Council	Cr David Brown	1. Cr Ryan Morris			
It also provides for community involvement in the Bush Fire Risk Management process and assists the Bush Fire Coordinating Committee to consider issues relevant to the protection of life, property and the environment from bushfires.	senior staff representative).						
BFMCs are responsible for preparing, coordinating, reviewing and monitoring the Plan of Operations and Bush Fire Risk Management Plan for their area.							
They assist in the coordination of bush fire detection, mitigation, control and suppression.							
Meeting frequency: Quarterly							

CONSULTATION AND COMMUNICATION

The Lord Mayor and Councillors and have been provided the opportunity to submit nominations if they wish to be appointed to this Committee.



PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 4. It specifically delivers on the following:

	Community Strategic Plan 2032	Delivery Program 2022-2026
	Strategy	Service
4.7	Demonstrate responsible decision-making based on our values, collaboration, and transparent and accountable leadership	Governance and Administration

FINANCIAL IMPLICATIONS

Councillor representatives appointed to external organisations and committees may incur travel expenses for attendance at quarterly or annual meetings. Such expenses are accounted for within the annual budget.

CONCLUSION

It is appropriate for Council to proceed to appoint Councillor representatives to the Illawarra Bushfire Management Committee to ensure that Council's interests are appropriately represented.



ITEM 8

ILLAWARRA ESCARPMENT MOUNTAIN BIKE SUPPORTING INFRASTRUCTURE CONSTRUCTION OF INFORMAL CAR PARKING FACILITY - PRIVATE WORKS

This report recommends undertaking Private Works to construct an informal gravel car park on Harry Graham Drive in the Kembla Heights Village to provide car parking for visitors to the Kembla Mountain Bike trails currently under construction by NSW National Parks and Wildlife Service (NPWS) scheduled for completion in July 2025.

Council has been collaborating with the NPWS on the mountain bike trail network throughout the Wollongong Local Government Area and agreed to investigate supporting infrastructure to activate the trails.

RECOMMENDATION

- 1. That in accordance with Section 67(2)(b) of the *Local Government Act 1993*, Council undertake Private Works at Nil cost to the owner of the land including general reshaping and placement of gravel materials on Part Lot 3 in DP 1103666 to support public parking as permitted under a Licence Agreement, subject to relevant statutory planning approvals.
- 2. That a summary of the resolution be included in the annual report in accordance with Section 67(3) of the *Local Government Act 1993*.
- 3. That a report be provided to a meeting of Council following the completion of the works pursuant to Section 67(4) of the *Local Government Act 1993*.

REPORT AUTHORISATIONS

Report of: Jeremy Morgan, Manager Project Delivery (Acting)
Authorised by: Joanne Page, Director Infrastructure + Works

ATTACHMENTS

1 Location Plan

BACKGROUND

Council has partnered with the NSW National Parks and Wildlife Service (NPWS) to investigate and deliver supporting infrastructure for the mountain bike trails in the escarpment over the last ten years. The supporting infrastructure includes amenities, road crossings, and car parking.

The subject of this report is identified as part of a project in the adopted 2024–2025 to 2027–2028 Infrastructure Delivery Program under the Parks and Sports Fields stream.

To inform the planning process, a Traffic and Transport study was commissioned to estimate future visitor numbers to the mountain bike trails and determine associated traffic and parking demands. Kembla Heights Village was identified as a key location for additional parking due to its proximity to two major trailheads on Harry Graham Drive.

In additional NPWS commissioned a user demand assessment for the trails at Mt Kembla to estimate annual users to quantifying likely trail network visitation drawn from local, regional, and interstate visitation. The analysis shows the Mountain trail network will attract significant user demand compatible to equivalent mountain bike networks in other locations. The Kembla trails are expected to generate substantial positive economic and community benefits for the Wollongong region throughout the operation phase. The low case scenario equates estimate of 35,000 annual users projected in Traffic and Transport study.

In response to the Traffic and Transport Study, Council has delivered additional car parking and intersection improvements adjacent to the Wollongong Motorcycle Club on Harry Graham Drive to provide additional car spaces at the entry to the stage 1 Kembla Mountain Bike trails.

Council owned/controlled land in the Kembla Heights Village area is limited. The project team identified two privately owned parcels of land with direct frontage to Harry Graham Drive that have historically been used for informal parking. These parcels, owned by GM3 / Dendrobium Coal Pty Ltd PT, Part Lot 3



D1103666 are zoned C4, and parking is permissible for certain uses under the Local Environmental Plan (LEP). Design where prepared and consulted through the engagement period.

Council has negotiated a Licence Agreement with the owner of the land that permits the use of the space for general use by the community for car parking.

PROPOSAL

It is proposed that minor works be undertaken to support the provision of car parking. One parcel of land is currently partially graded with variable sized crushed rock and crushed concrete surface. To improve the usability of the existing informal parking area, it is proposed that the surface be regraded and additional gravel placed and compacted to create a more uniform surface. The parking areas will remain informal and will not include line marking, lighting, or pedestrian pathways.

The projected numbers indicate an increasing trend in participation in mountain biking and it is predicted the user demand for the Kembla Mountain bike trail network will be strong.

It is proposed that Council undertake Private Works on Lot 160 DP751278 to prepare the site for public car parking. In accordance with the provisions of Division 3 – Private Works of the *Local Government Act* 1993 (the Act), Council may, with the agreement with the owner of the private land, carry out work on the land that may lawfully be carried out. Section 67 (2) of the Act states

- (2) A council must not carry out work under this section unless—
 - (a) it proposes to charge an approved fee for carrying out the work as determined by the council in accordance with Division 2 of Part 10 of Chapter 15, or
 - (b) if it proposes to charge an amount less than the approved fee, the decision to carry out the work is made, and the proposed fee to be charged is determined, by resolution of the council at an open meeting before the work is carried out.

Council has not established an approved fee in accordance with Section 67(2)(a) of the Act. Given that the purpose of the Private Works as defined by the Act is to provide benefit to the community through the provision of parking for public purpose, it is proposed that the works be carried out at Nil cost to the landowner.

CONSULTATION AND COMMUNICATION

In April 2023, Council consulted with the community and presented a plan of the proposed supporting infrastructure, including the parking areas in Mt Kembla.

Council also consulted with GM3 / Dendrobium Coal Pty Ltd, the landowner of the parcel. A Licence Agreement was sought to formalise the public use of this area for parking. In March 2025, a licence granting permission for car parking on the parcel for a period of five years subject to conditions including possible early termination with notice. Due to the short-term nature of the licence, the agreement was entered into under Delegation.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 2, 3, 5 and 6.

- 2.7 Promote the Wollongong Local Government Area as an event, conference and visitor destination.
 - Provide communities with access to quality local spaces and places to meet, share and celebrate.
 - o Enable signature events and festivals where communities and visitors can gather and celebrate.
- 5.4 Provide a variety of quality and accessible public places and opportunities for sport, play, leisure, recreation, learning and cultural activities in the community.
- 5.7 Provide an appropriate range of active and passive open spaces and facilities to cater for traditional and emerging recreational pursuits.
- 6.2 Wollongong continues to build infrastructure and programs to fulfil its role as a UCI Bike city.

SUSTAINABILITY IMPLICATIONS

The adaptive use of this parcel of land for car parking reinforces councils' commitment to sustainable infrastructure development and improved access to quality recreational opportunities, in alignment with our role as a UCI Bike City.

FINANCIAL IMPLICATIONS

It is proposed that Council fund the works in full, with no financial contribution from the landowner. The upgraded parking will be available for use by the public.

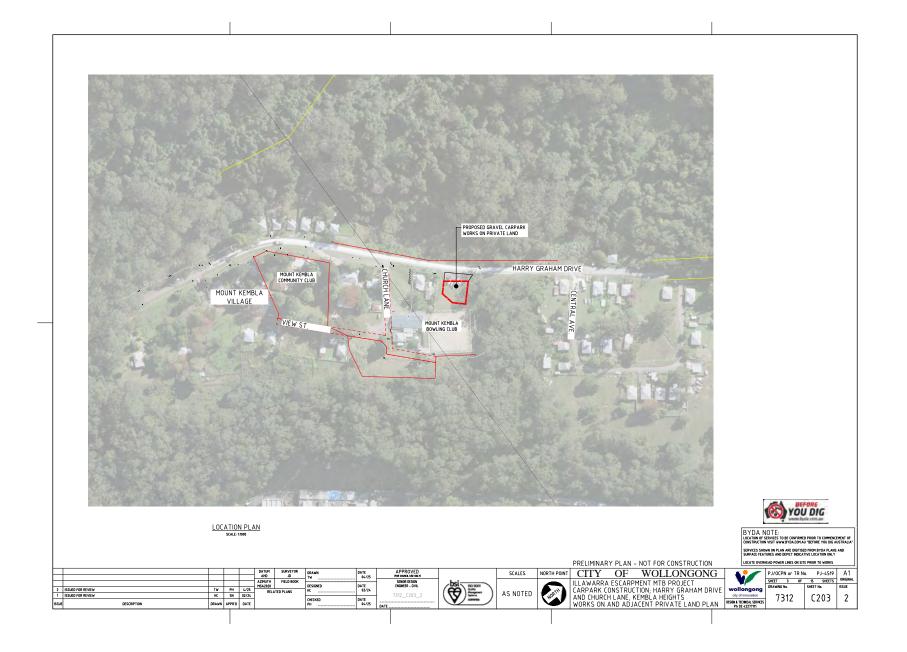
The estimated cost of works on private property is \$58,000.

Council is proposing ancillary works within the public road area to support parking and for set-down and pick-up of riders. The cost of the works on the road reserve is not subject to the Private Works provisions of the Local Government Act, and the estimated cost of these works is \$72,000. The total estimated cost of the supporting infrastructure works is \$130,000.

CONCLUSION

It is recommended that Council approve the works on private property at no cost to the landowner to facilitate public parking to support the utilisation of the mountain bike trail network.







ITEM 9

TENDER T1000181 - AMENITIES BUILDING CONSTRUCTION - THOMAS GIBSON PARK

This report recommends acceptance of a tender for amenities building construction at Thomas Gibson Park, Thirroul in accordance with the requirements of the *Local Government Act 1993* and the *Local Government (General) Regulation 2021*.

The existing public amenities and sport facility buildings at Thomas Gibson Park have reached the end of useful life. The scope of the contract includes the demolition of the building, construction of a new building, and provision of temporary amenities for the duration of construction. The proposed works align with the action from Council's Delivery Program 2022-2026 and Operational Plan 2024-2025 to upgrade the amenities at Thomas Gibson Park.

RECOMMENDATION

- In accordance with Section 178(1)(a) of the *Local Government (General) Regulation 2021*, Council accept the tender of Batmac Constructions Pty Ltd for T1000181 Amenities Building Construction Thomas Gibson Park, Thirroul, in the sum of \$2,082,626.19, including GST.
- 2 Council delegate to the General Manager the authority to finalise and execute the contract and any other documentation required to give effect to this resolution.
- 3 Council grant authority for the use of the Common Seal of Council on the contract and any other documentation, should it be required, to give effect to this resolution.

REPORT AUTHORISATIONS

Report of: Jeremy Morgan, Manager Project Delivery (Acting)
Authorised by: Joanne Page, Director Infrastructure + Works

ATTACHMENTS

1 Locality Plan - Thomas Gibson Amenities

BACKGROUND

The public amenities and the sport facility building used by the Thirroul Butchers Rugby League Football Club (TBRFLC) at Thomas Gibson Park, Thirroul have reached the end of their useful lives, being over 55 years old. The public amenities servicing the area are not compliant with current accessibility standards and do not adequately service the adjacent sports fields, especially on game days during football season. To meet contemporary service levels, the existing buildings are to be demolished, with a new building to be constructed, comprising of:

- 6 public amenities (including accessible and ambulant),
- team change rooms,
- canteen,
- referee room; and
- first aid room.

The new building meets contemporary standards by:

- Providing compliant and all-gender changing rooms for use by sports clubs.
- Providing a safer space for food storage and service; and
- Upgrading walkways for accessibility.

The proposed works align with the:

• Action to upgrade the amenities at Thomas Gibson Park as listed in Council's Delivery Program 2022-2026 and Operational Plan 2024-2025.



 Strategic direction and actions within Council's Sportsgrounds and Sporting Facilities Strategy 2023-2027.

Open tenders were invited for this project, with submissions closing at 10.00 am on 11 March 2025.

Thirteen (13) tenders were received, and all submissions were reviewed and evaluated by a Tender Evaluation Panel in accordance with Council's Procurement Policies and Procedures and comprising representatives of the Project Delivery and Sport and Recreation Divisions. One (1) tenderer withdrew their submission on 31 March 2025.

Tenders were reviewed against the following evaluation criteria and weightings as set out in the request for tender documents:

Mandatory Criteria

- 1 Satisfactory references from referees for previous projects of similar size and scope
- 2 Financial evaluation acceptable to Council which demonstrates the tenderer's financial capacity to undertake the works
- 3 Accredited Workplace Health & Safety Management System

Evaluation Criteria

- 1 Cost to Council 45%
- 2 Appreciation of scope of works and construction methodology 10%
- 3 Demonstrated experience and satisfactory performance in undertaking projects of similar size, scope and risk profile, including staff qualifications and experience 15%
- 4 Proposed sub-contractors 5%
- 5 Project Schedule 10%
- 6 Demonstrated strengthening of local economic capacity 10%
- 7 Workplace health and safety management system and environmental management policies and procedures 5%

The mandatory evaluation criteria have been met by the recommended tenderer.

The Tender Evaluation Panel utilised a weighted scoring method for the evaluation of tenders which allocates a numerical score out of 5 in relation to the level of compliance offered by the tenders to each of the evaluation criteria as specified in the tender documentation. The method then applies weightings established prior to opening tenders for each of the evaluation criteria which provides for a total score out of 5 to be calculated for each tender. The tender with the highest total score is considered the offer that best meets the requirements of the contract in providing value to Council.



TABLE 1 - SUMMARY OF TENDERS

Name of Tenderer	
2020 Projects Pty Ltd	CONFORMING
Baker Built Pty Ltd	WITHDRAWN
Batmac Constructions Pty Ltd	CONFORMING
CBC Facilities Maintenance Pty Ltd	CONFORMING
Cerak Constructions Pty Ltd	CONFORMING
Cubic Projects	CONFORMING
Deane Constructions (NSW) Pty Ltd	NON-CONFORMING
Fleetwood VIC & QLD Pty Ltd	NON-CONFORMING
Joss Group	CONFORMING
Makki Constructions Pty Ltd	CONFORMING
Peloton Constructions	CONFORMING
Structen Pty Ltd	CONFORMING
Vertex Group Australia	NON-CONFORMING

PROPOSAL

The Tender Evaluation Panel recommend acceptance of the tender from Batmac Constructions Pty Ltd to carry out the T1000181 - Amenities Building Construction - Thomas Gibson Park, Thirroul, in the sum of \$2,082,626.19, including GST in accordance with the scope of works and technical specifications developed for the project.

The recommended tenderer has satisfied the Tender Evaluation Panel that it can undertake the works in accordance with Council's standards and technical specification.

An acceptable financial capability evaluation has been received in relation to the recommended tenderer.

Referees nominated by the recommended tenderer have been contacted by the Tender Evaluation Panel and the panel was satisfied with the responses.

CONSULTATION AND COMMUNICATION

- 1 Members of the Tender Evaluation Panel
- 2 Nominated Referees

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 5. It specifically delivers on the following:

Community Strategic Plan 2032	Delivery Program 2022-2026
Strategy	Service
5.7 Provide an appropriate range of active and passive open spaces and facilities to cater for traditional and emerging recreational pursuits.	Parks and Sports fields

RISK ASSESSMENT

The risk in accepting the recommendation of this report is considered low on the basis that the tender process has complied with Council's Procurement Policies and Procedures and the *Local Government Act* 1993.

The risk of the project works or services is considered medium based upon Council's risk assessment matrix and appropriate risk management strategies will be implemented.

SUSTAINABILITY IMPLICATIONS

Sustainability implications have been considered as follows:

- Sustainable procurement by providing open tender to give local companies the opportunity to tender for the work.
- Weighting in tender assessment provided for using local services, labour and materials.
- Fit for purpose building materials to resist the coastal environment in which the building is located.
- Use of autotimer for lighting and passive natural ventilation reduce electricity consumption.

FINANCIAL IMPLICATIONS

It is proposed that the total project be funded from the following source/s as identified in the Operational Plan -

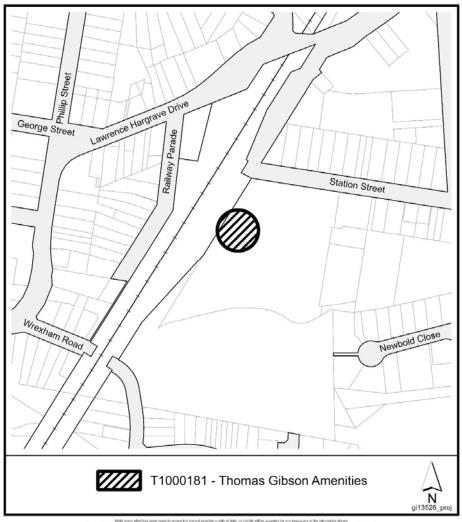
> 2024/25 Capital Budget 2025/26 Capital Budget

Level the Playing Field Program 2023/24 (NSW Office of Sport)

CONCLUSION

The proposed new building at Thomas Gibson Park is aligned with the strategic direction and key actions within Council's Delivery Program and Operational Plan and Sportsgrounds and Sporting Facilities Strategy 2023-2027. Batmac Constructions have provided a satisfactory submission, and it is recommended that Council endorse the recommendations of this report.

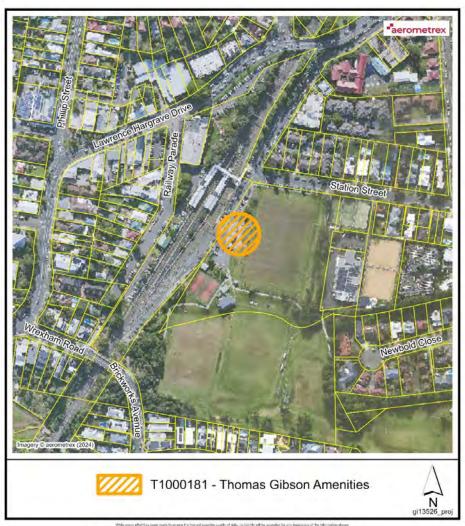




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ITEM 10

TENDER T1000183 - HIBISCUS STREET BRIDGE REPAIR - WOLLONGONG SURF LEISURE RESORT

This report recommends acceptance of a tender for the repair and remediation works of the Hibiscus Street Bridge – Wollongong Surf Leisure Resort in accordance with the requirements of the *Local Government Act* 1993 and the *Local Government (General) Regulation* 2021.

Council has a program of regular bridge condition inspections which includes the assessment of key elements that affect the resilience of the bridge to hazards. Inspections of the existing shared traffic and pedestrian bridge superstructure and abutments of the Hibiscus Street, Fairy Meadow bridge found that repairs and remediation works were required to maintain the structural integrity, public safety and service life of the bridge.

RECOMMENDATION

- 1 In accordance with Section 178(1)(a) of the *Local Government (General) Regulation 2021*, Council accept the tender of Cadifern Pty Ltd for repair and remediation works of the Wollongong Surf Leisure Resort Bridge, in the sum of \$639,225.40, including GST.
- 2 Council delegate to the General Manager the authority to finalise and execute the contract and any other documentation required to give effect to this resolution.
- 3 Council grant authority for the use of the Common Seal of Council on the contract and any other documentation, should it be required, to give effect to this resolution.

REPORT AUTHORISATIONS

Report of: Jeremy Morgan, Manager Project Delivery (Acting)
Authorised by: Joanne Page, Director Infrastructure + Works

ATTACHMENTS

1 Locality Plans

BACKGROUND

The shared traffic and pedestrian bridge located within the boundaries of Wollongong Surf Leisure Resort (WSLR) spans over a shared path and the Towradgi Arm of Fairy and Cabbage Tree Creeks, providing access to the eastern side of the WSLR. The bridge was constructed in the 1980's and following visual inspections and structural condition assessments carried out by the Council along with the Australian Road Research Board (ARBB) it is showing various signs of deterioration including:

- Corrosion on the primary steel girders, bearing plates and connections, reducing the structural capacity
- Corrosion along the whole length and at connection points of the cross-bracing members, reducing the service life
- Minor cracking in the deck concrete, showing evidence of efflorescence and water ingress
- Leaking bridge deck joints allowing water ingress and corrosion to structural elements
- Moderate scouring on the abutment embankments
- Barriers not conforming with the requirements of Australian Standards

The above cited structural condition assessments identified the bridge as requiring urgent repair works to continue to provide a safe and structurally sound traffic bridge. Without intervention, further deterioration of the bridge would be likely, which would cause a requirement for greater remediation efforts in the future.

Tenders were invited for this project by the open tender method with a close of tenders of 10.00 am on 2 April 2025.

571



Ordinary Meeting of Council

Three (3) tenders were received by the close of tenders and all tenders have been scrutinised and evaluated by a Tender Evaluation Panel constituted in accordance with Council's Procurement Policies and Procedures and comprising representatives of the Project Delivery, Infrastructure Strategy and Planning and Governance and Customer Service Divisions.

The Tender Evaluation Panel evaluated all tenders in accordance with the following Evaluation criteria and weightings as set out in the formal tender documents:

Mandatory Criteria

- Satisfactory references from referees for previous projects of similar size and scope
- Financial evaluation acceptable to Council which demonstrates the tenderer's financial capacity to undertake the works
- Accredited Workplace Health and Safety Management System

Evaluation Criteria

- 1 Cost to Council - 35%
- 2 Appreciation of scope of works and construction methodology – 20%
- 3 Experience and satisfactory performance in undertaking projects of similar size, scope and risk profile, including staff qualifications and experience – 15%
- Demonstrated strengthening of local economic capacity 10% 4
- 5 Proposed sub-contractors – 5%
- 6 Project Schedule - 10%
- 7 Workplace health and safety management system and environmental management policies and procedures – 5%

The mandatory evaluation criteria have been met by the recommended tenderer.

The Tender Evaluation Panel utilised a weighted scoring method for the evaluation of tenders which allocates a numerical score out of 5 in relation to the level of compliance offered by the tenders to each of the evaluation criteria as specified in the tender documentation. The method then considers predetermined weightings for each of the evaluation criteria which provides for a total score out of 5 to be calculated for each tender. The tender with the highest total score is considered to be the tender that best meets the requirements of the tender documentation in providing best value to Council. Table 1 below summarises the results of the tender evaluation and the ranking of tenders.

TABLE 1 - SUMMARY OF TENDERS RECEIVED

Name of Tenderer	
Cadifern Pty Ltd	CONFORMING
Cappa Construction & Maintenance Pty Ltd	CONFORMING
McElligotts (NSW) Pty Ltd	CONFORMING

PROPOSAL

Council should authorise the engagement of Cadifern Pty Ltd to carry out the repair and remediation works of the WSLR Bridge in accordance with the scope of works and technical specifications developed for the project.

The recommended tenderer has satisfied the Tender Evaluation Panel that it is capable of undertaking the works to Council's standards and in accordance with the technical specification.

An acceptable financial capability evaluation has been received in relation to the recommended tenderer.

Referees nominated by the recommended tenderer have been contacted by the Tender Evaluation Panel and expressed satisfaction with the standard of work and methods of operation undertaken on their behalf.

CONSULTATION AND COMMUNICATION

- 1 Members of the Tender Evaluation Panel
- 2 Nominated Referees

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 6. It specifically delivers on the following:

	Community Strategic Plan 2032	Delivery Program 2022-2026
	Strategy	Service
6.7	Maintain the service levels of our roads, footpaths and cycleways to an acceptable standard	Transport Services

RISK ASSESSMENT

The risk in accepting the recommendation of this report is considered low on the basis that the tender process has fully complied with Council's Procurement Policies and Procedures and the *Local Government Act* 1993.

The risk of the project works or services is considered medium based upon Council's risk assessment matrix and appropriate risk management strategies will be implemented.

The existing bridge was classified as requiring urgent repair works according to the site inspections and structural condition assessments conducted by Council and the ARBB. Previous predictions at the current corrosion rate along with the decline of the structural capacity posed a risk for failure in 2028. There are several impacts including safety, financial and reputational risks that should be considered if Council decides not to undertake the repair and remediation works of the bridge.

SUSTAINABILITY IMPLICATIONS

Economic sustainability implications are considered relevant to the re-use of the existing bridge members with extended service life following repairs and rehabilitation, as well as to reduce the maintenance costs of the existing structure and to reduce the likelihood of damages in case of a potential structural failure.

FINANCIAL IMPLICATIONS

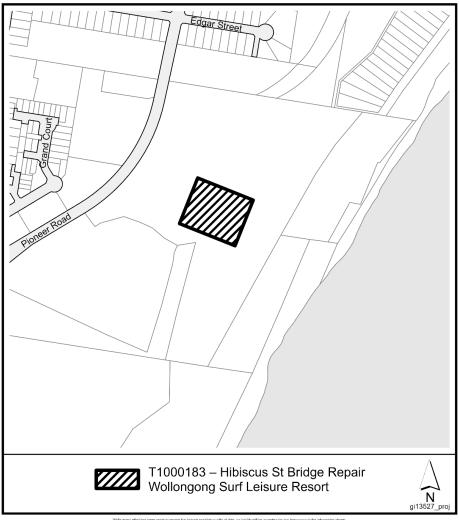
It is proposed that the total project be funded from the following sources as identified in the Operational Plan –

2024/25 Capital Budget 2025/26 Capital Budget

CONCLUSION

Without intervention, further deterioration of the Hibiscus Street bridge is likely, which poses risks to structural integrity, public safety, service life of the bridge and increased remediation costs. Therefore, Council should consider the recommendations of this report.





While every effort has been made to ensure the highest possible quality of data, no liability will be accepted for any inaccuracy of the information shown. Cepyright © Wellengong City Council, Mapping Services Section. This map may not be reproduced in any form whatever without the express written permission of Wellengong City Council.







ITEM 11 TENDER T1000188 - LEASE TO OPERATE STANWELL PARK BEACH CAFE

This report recommends that Council declines to accept the tender submitted for the lease to operate Stanwell Park Beach Café in accordance with Section 178(1)(b) of the *Local Government (General) Regulation 2021*. The report further recommends proceeding to negotiate firstly with the tenderer, or in the event of failure of negotiations with the tenderer, any other party with a view to entering into a Lease agreement.

RECOMMENDATION

- 1 a In accordance with Section 178(1)(b) of the Local Government (General) Regulation 2021, Council decline to accept any of the tenders received for the lease to operate the Stanwell Park Beach Café and resolve to enter into negotiations with the tenderer or any other party with a view to entering into a Lease agreement in relation to the subject matter of the tender.
 - b In accordance with Section 178(4) of the *Local Government (General) Regulation 2021*, the reason for Council hereby resolving to enter into negotiations with the tenderer or any other party and not inviting fresh tenders is that it is anticipated that a satisfactory outcome can be achieved with a party who demonstrate a capacity and ability to undertake the terms and conditions of the Lease agreement.
- Council delegate to the General Manager the authority to undertake and finalise the negotiations, firstly with the tenderer and in the event of failure of negotiations with those tenderers, any other party, with a view to entering into a Lease Agreement in relation to the subject matter of the tender.
- 3 Council grant authority for the use of the Common seal of Council on the Lease Agreement and any other documentation, should it be required, to give effect to this resolution.

REPORT AUTHORISATIONS

Report of: Roisin OSullivan, Manager Commercial Operations + Property (Acting)
Authorised by: Kerry Hunt, Director Community Services - Creative and Innovative City

ATTACHMENTS

There are no attachments for this report.

BACKGROUND

The Stanwell Park Beach Café is a commercial property located at the entrance to Stanwell Park Reserve. The previous tenant vacated the premises on 13 April 2025. This purpose-built café offers an excellent commercial business opportunity for an experienced operator serving the public, including the many visitors to our beautiful region. It comprises of a commercial kitchen fit out for the provision of takeaway or alfresco dining which incorporates a covered outdoor seating area with approval for seating for up to 50 people. The building also includes staff amenities, a dry store, cool room, freezer area, male and female accessible patron toilets and disabled access.

Tenders were invited by open tender for the lease to operate Stanwell Park Beach Café for an initial term of five (5) years plus a five (5) year option to extend in accordance with the lease provisions. Tenders closed at 10am on Thursday 27 March 2025.

One tender was received at the close of tenders and was deemed by the Tender Panel as a non-conforming Tender – details of which have been circulated to Council under separate cover.

The Tender Evaluation Panel evaluated all tenders in accordance with the following evaluation criteria and weightings as set out in the formal tender documents:

Mandatory Criteria

- 1. Referees
- 2. Financial capacity
- 3. Operating Objectives
- 4. Workplace Health and Safety Documentation

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5. Attendance at a Site Inspection

Evaluation criteria

- 1. Proposed Annual Rental Payable to Council 30%
- 2. Demonstrated Experience and satisfactory performance in operating premises of similar operation - 20%
- 3. Staff Qualifications and Experience 20%
- 4. Proposed Business Plan 20%
- 5. Demonstrated strengthening of local economy 10%

PROPOSAL

The Tender Evaluation Panel has concluded that the one (1) tender received is non-conforming and has recommended that this tender be declined and negotiations be undertaken with this tenderer, or any other party, with a view to entering into a contract for the subject matter of the tender.

The Panel anticipates that a satisfactory outcome will be achieved through a negotiation process conducted in accordance with Council's Procurement Policies and Procedures.

CONSULTATION AND COMMUNICATION

- 1 Members of the Tender Evaluation Panel
- 2 Council's Procurement and Governance Divisions
- 3 Tenderer's nominated referee.

As the Stanwell Park Reserve is classified Crown land, a Native Title Report was completed on 12 February 2025 which concluded that the granting of the Lease for the use of the existing building as a kiosk/café is deemed a valid future act for the purposes of the Native Title Act 1993.

Statutory advertising of the Lease was carried out for a 28-day period closing 24 February 2025. Four (4) submissions were received which were supportive of the Lease and there were no objections.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goal 5 'We have a healthy community in a liveable city'. It specifically delivers on core business activities as detailed in the Community Strategic Plan 5.4 'Provide a variety of quality and accessible public places and opportunities for sport, play, leisure, recreation, learning and cultural activities in the community'.

RISK ASSESSMENT

The risk in accepting the recommendation of this report is considered low on the basis that the tender process has fully complied with Council's Procurement Policies and Procedures and the Local Government Act 1993. The risk of the project works or services is considered low based upon Council's risk assessment matrix and appropriate risk management strategies will be implemented such as an appropriate Lease agreement.

SUSTAINABILITY IMPLICATIONS

The following sustainability implications have been considered:

- Sustainable procurement by providing open and selective Tender method to give local companies the opportunity to provide a submission for the lease.
- Weighting in the Tender assessment provided for using local services, labour and materials.
- The Lease agreement promotes sustainable business practices including mandatory use of sustainable packaging and sourcing of products and limited wastage.



FINANCIAL IMPLICATIONS

It is anticipated that by negotiating with the current tenderer or another party, that a satisfactory commercial outcome will be achieved in an efficient timeframe.

CONCLUSION

Whilst there was only one tenderer for this Lease, Council officers are of the view that a satisfactory outcome will be achieved through a negotiation process with either this Tenderer or another party conducted in accordance with Council's Procurement Policies and Procedures resulting in a satisfactory value for money outcome for Council. Council should endorse the recommendations of this report.



TENDER T1000195 - EMBANKMENT STABILISATION WORKS - 65 CORDEAUX ROAD, KEMBLA HEIGHTS

Severe wet weather in 2022 resulted in slope instability comprising three localised landslides on the upper section of Cordeaux Road, Kembla Heights which slumped onto the road. Temporary emergency remedial works were undertaken at the time by Wollongong City Council (WCC) in early September 2022 to secure a large lower boulder in place, following initial emergency works by Endeavour Energy to remove fallen trees and re-establish power connections to the Mt Kembla Village.

This report recommends acceptance of a tender for embankment stabilisation works at 65 Cordeaux Road, Kembla Heights, in accordance with the requirements of the Local Government Act 1993 and the Local Government (General) Regulation 2021.

RECOMMENDATION

- 1 In accordance with Section 178(1)(a) of the *Local Government (General) Regulation 2021*, Council accept the tender of Cadifern Pty Ltd for Embankment Stabilisation Works 65 Cordeaux Road, Kembla Hights, in the sum of \$1,093,468.20, including GST.
- 2 Council delegate to the General Manager the authority to finalise and execute the contract and any other documentation required to give effect to this resolution.
- 3 Council grant authority for the use of the Common Seal of Council on the contract and any other documentation, should it be required, to give effect to this resolution.

REPORT AUTHORISATIONS

Report of: Jeremy Morgan, Manager Project Delivery (Acting)
Authorised by: Joanne Page, Director Infrastructure + Works

ATTACHMENTS

1 Location Plans

BACKGROUND

The upper section of Cordeaux Road was affected by slope instability comprising of three localised landslides, which slumped onto the road following a severe weather event after prolonged wet weather in 2022. Temporary emergency remedial works were undertaken by Wollongong City Council (WCC) in early September 2022 to secure a large lower boulder in place, following initial emergency works by Endeavour Energy to remove fallen trees and re-establish power connections to the Mt Kembla Village. A concrete Jersey Kerb barrier was installed and bolted to the kerb to partially retain any loose material that was making its way onto the roadway.

Tenders were invited for this project by the open tender method with a close of tenders of 10.00 am on Tuesday, 8 April 2025.

Ten (10) tenders were received by the close of tenders and all tenders were scrutinised and evaluated by a Tender Evaluation Panel constituted in accordance with Council's Procurement Policies and Procedures and comprising representatives of the Project Delivery, Customer + Business Integrity, Finance and Infrastructure Strategy + Planning Divisions.

The Tender Evaluation Panel evaluated all tenders in accordance with the following Evaluation criteria and weightings as set out in the formal tender documents:

Mandatory Criteria

- 1 Satisfactory references from referees for previous projects of similar size and scope.
- 2 Financial evaluation acceptable to Council which demonstrates the tenderer's financial capacity to undertake the works.
- 3 Accredited Workplace Health and Safety Management Systems.
- 4 Accredited Working Near Overhead Powerlines Person.

Evaluation Criteria

- Cost to Council 45% 1
- 2 Demonstrated strengthening of local economic capacity – 10%
- 3 Appreciation of scope of works and construction methodology - 10%
- 4 Demonstrated experience and satisfactory performance in undertaking projects of similar size, scope and risk profile, including staff qualifications and experience – 20%
- 5 Proposed sub-contractors – 2.5%
- 6 Project schedule – 10%
- Workplace health and safety management system and environmental management policies and 7 procedures – 2.5%

The mandatory evaluation criteria have been met by the recommended tenderer.

The Tender Evaluation Panel utilised a weighted scoring method for the evaluation of tenders which allocates a numerical score out of 5 in relation to the level of compliance offered by the tenders to each of the evaluation criteria as specified in the tender documentation. The method then considers predetermined weightings for each of the evaluation criteria which provides for a total score out of 5 to be calculated for each tender. The tender with the highest total score is considered to be the tender that best meets the requirements of the tender documentation in providing best value to Council. Table 1 below provides a list of conforming and non-conforming tenders.

TABLE 1 – SUMMARY OF TENDERS RECEVIED

Name of Tenderer	
Cadifern Pty Ltd	CONFORMING
Earthtrack Solutions Pty Ltd	CONFORMING
Fulton Hogan Industries Pty Ltd	CONFORMING
Ground Stabilisation Systems	CONFORMING
Jaswal Engineering (Australian Ground Technologies)	CONFORMING
Menai Civil Contractors Pty Ltd	CONFORMING
Piling & Concreting Australia (PCA) Pty Ltd	CONFORMING
Retaining Specialists Pty Ltd	NON-CONFORMING
Select Civil Pty Ltd	CONFORMING
The RIX Group Pty Ltd	CONFORMING

PROPOSAL

It is recommended that Council authorise the engagement of Cadifern Pty Ltd to carry out the embankment stabilisation works at 65 Cordeaux Road, Kembla Heights, in accordance with the scope of works and technical specifications developed for the project.

The recommended tenderer has satisfied the Tender Evaluation Panel that it is capable of undertaking the works to Council's standards and in accordance with the technical specification.

An acceptable financial capability evaluation has been received in relation to the recommended tenderer.

Referees nominated by the recommended tenderer have been contacted by the Tender Evaluation Panel regarding the standard of work and methods of operation undertaken on their behalf.

CONSULTATION AND COMMUNICATION

- 1 Members of the Tender Evaluation Panel
- Nominated Referees 2

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 Goals 1 and 6. It specifically delivers on the following:

	Community Strategic Plan 2032	Delivery Program 2022-2026
	Strategy	Service
1.3	Increase our resilience to natural disasters and a changing climate to protect life, property and the environment	Emergency Management Stormwater Services
6.7	Maintain the service levels of our roads, footpaths and cycleways to an acceptable standard.	Transport Services

RISK ASSESSMENT

The risk in accepting the recommendation of this report is considered low on the basis that the tender process has fully complied with Council's Procurement Policies and Procedures and the Local Government Act 1993.

The risk of the project works or services is considered medium based upon Council's risk assessment matrix and appropriate risk management strategies will be implemented.

SUSTAINABILITY IMPLICATIONS

The following sustainability implications have been considered:

- Sustainable procurement by providing an open tender to give local companies the opportunity to tender for the work.
- Weighting in tender assessment provided for using local services, labour and materials.
- Reuse of won rock from the project in other adjacent stormwater outlets.

FINANCIAL IMPLICATIONS

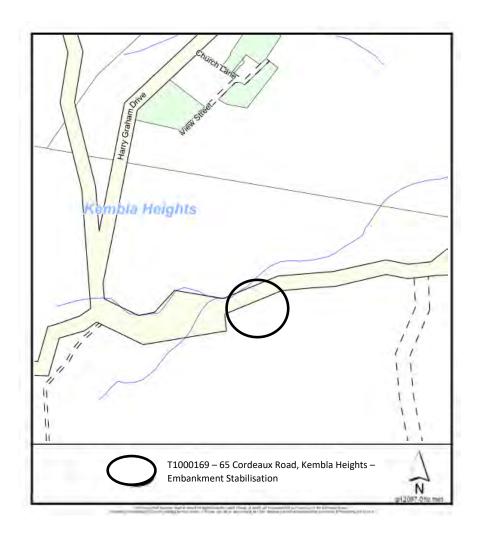
It is proposed that the total project be funded from the following source/s as identified in the Operational Plan -

> 2024/25 Capital Budget 2025/26 Capital Budget

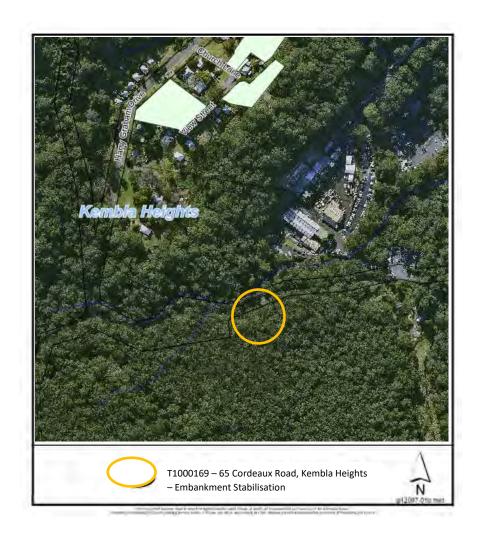
CONCLUSION

The proposed embankment stabilisation works adjacent to the upper section of Cordeaux Road, Kembla Heights is aligned with the strategic direction and key actions within Council's Delivery Program and Operational Plan. Cadifern Pty Ltd have provided a satisfactory submission, and it is recommended that Council endorse the recommendations of this report.











ITEM 13 MARCH 2025 FINANCIALS

The financial result for March 2025 compared to budget is favourable for the Operating Result [pre-capital] \$2.2M. Funds Available from Operations was unfavourable compared to budget \$3.9M and the Total Funds Result favourable \$2.4M compared to budget.

The Statement of Financial Position at the end of the period indicates sufficient cash to support external restrictions.

Council has expended \$64M on its capital works program representing 62.3% of the annual budget. The budget for the same period was \$72.4M. The third Quarter Capital Budget adjustments will be approved through the March Quarterly Review process.

RECOMMENDATION

The financials be received and noted.

REPORT AUTHORISATIONS

Report of: Brian Jenkins, Chief Financial Officer

Authorised by: Todd Hopwood, Director Corporate Services - Connected + Engaged City (Acting)

ATTACHMENTS

1 Financial Statements - March 2025

BACKGROUND

This report presents the Financial Performance of the organisation as at 28 March 2025. The below table provides a summary of the organisation's overall financial results for the year to date.

Wollongong City Council	Original	Revised	YTD	YTD	
28 March 2025	Budget	Budget	Forecast	Actual	Variation
Forecast Position	\$M	\$M	\$M	\$M	\$M
	1-Jul	28-Mar	28-Mar	28-Mar	
Operating Revenue	368.1	356.5	242.1	244.3	2.2
Operating Costs	(354.2)	(376.9)	(280.7)	(280.7)	-
Operating Result [Pre Capital]	13.9	(20.5)	(38.6)	(36.5)	2.2
Capital Grants & Contributions	27.5	31.0	17.3	18.8	1.5
Operating Result	41.3	10.5	(21.3)	(17.7)	3.6
Funds Available from Operations	66.3	49.2	39.0	35.1	(3.9)
Capital Works	106.0	102.8	72.4	64.0	8.4
Contributed Assets	7.0	7.0	0.0	-	0.0
Transfer to Restricted Cash	2.6	31.1	1.6	1.6	-
Borrowings Repaid	0.7	0.7	0.7	0.7	-
Funded from:					
- Operational Funds	66.3	49.2	39.0	35.1	(3.9)
- Other Funding	49.2	75.6	22.3	20.2	(2.1)
Total Funds Surplus/(Deficit)	(0.8)	(16.8)	(13.3)	(11.0)	2.4

FINANCIAL PERFORMANCE

The March 2025 Operating Result [pre-capital] deficit of \$36.5M is a favourable variance of \$2.2M compared to the budget deficit of \$38.6M.

The Operating Result deficit of \$17.7M is a favourable variance of \$3.6M compared to budget.

The Funds Available from Operations result is unfavourable by \$3.9M compared to phased budget. This result excludes the non-cash variations and transfers to and from Restricted Assets but includes the variation in cash payments for Employee Entitlements. This result best represents the operational budget variations that impact our funding position and current financial capacity.

The Total Funds result as at 28 March 2025 is a favourable variance of \$2.4M compared to phased budget.

The Funds Available from Operations variation includes the impacts of expenditure on the April natural disaster that has not been clarified as recoverable \$1.2M. The continuing impact of the Natural Disaster is not fully known, and work continues substantiating external funding opportunities that may be available to offset associated expenses.

At the end of March, the Capital Works Program had an expenditure of \$64M compared to a budget of \$72.4M.

FINANCIAL POSITION

Cash, Investments & Available Funds

Council's cash and investments decreased during March 2025 to holdings of \$190.0M compared to \$199.9M at the end of February 2025. A significant portion of these funds are subject to restriction meaning they can only be utilised for specific purposes. As a result, Council's true available cash position is more accurately depicted by considering available funds that are uncommitted and not subject to restriction.

Wollongong City Council				
28 March 2025				
Cash, Investments and Availab	ole Funds			
	Actual 2023/24	Original Budget 2024/25	Revised Budget 2024/25	Actuals YTD March 2025
	\$M	\$M	\$M	\$M
Total Cash and Investments	179.5	186.1	202.6	190.0
Less Restrictions: External Internal CivicRisk Investment	86.9 68.7 3.1	80.0 86.6	94.2 90.9	101.0 67.6 3.1
Total Restrictions	158.7	166.6	185.2	171.7
Available Cash	20.8	19.5	17.4	18.3
Adjusted for : Payables Receivables Other Net Payables & Receivables	(22.3) 32.4 10.5 20.6	(29.3) 28.6 (2.4) (3.1)	(31.4) 28.0 1.9 (1.5)	(33.4) 35.5 10.2 12.3
Available Funds	41.4	16.4	15.9	30.6

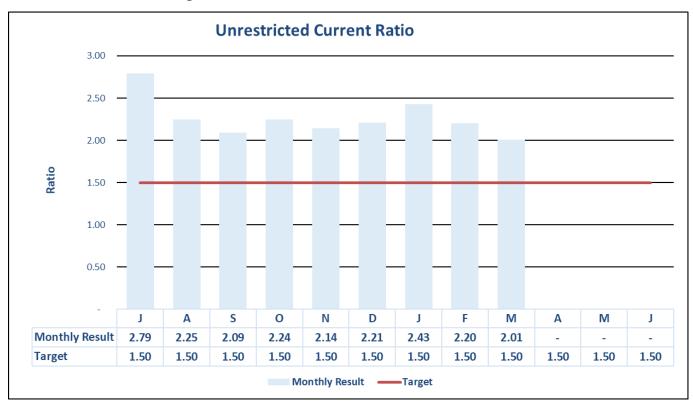
External restrictions are funds that must be spent for a specific purpose and cannot be used by Council for general operations. Internal restrictions are funds that Council has determined will be used for a specific future purpose, although Council may vary that use by resolution of Council. Further details on the internal and external restrictions can be found in the Cash Flow Statement (Attachment 1).

The level of cash and investments in Council's available funds position is still above the Financial Strategy target range of 3.5% to 5.5% of operational revenue (pre-capital) due to the impact of the early

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payment of the Financial Assistance Grant. The decrease in cash and investments is in line with anticipated cash flows.

The Unrestricted Current Ratio measures the Council's liquidity position or ability to meet short term obligations as they fall due. The below graph reflects Council's performance against the Local Government benchmark of greater than 1.5 times.



Borrowings

Council has no outstanding loans as at 28 March 2025. Council's Financial Strategy includes provision for additional borrowing in the future and Council will consider borrowing opportunities from time to time to bring forward the completion of capital projects where immediate funding is not available.

Infrastructure, Property, Plant & Equipment

Ordinary Meeting of Council

The Statement of Financial Position shows \$4.04B of Property, Plant and Equipment at net carrying value, and gross replacement cost \$7B (excluding \$117M in Work In Progress) that are controlled and managed by Council on behalf of the community as at 28 March 2025.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong Our Future 2032 Goal 4 "We are a connected and engaged community". It specifically delivers on the following:

	Community Strategic Plan 2032	Delivery Program 2022-2026
	Strategy	Service
4.8	Council's resources are managed effectively to ensure long term financial sustainability.	Financial Services

CONCLUSION

The financial result impacted key financial indicators at the end of March through a favourable result for Total Funds Result Budget versus Actual.



Income Statement			****		
	2024/25 Original Budget \$'000	2024/25 Revised Budget \$'000	2024/25 YTD Budget \$'000	2024/25 Actual YTD \$'000	Variance \$'000
Income From Continuing Operations Revenue:					
Rates and Annual Charges	247,048	247,535	184,075	184,033	(42)
User Charges and Fees	39,990	37,523	28,151	30,103	1,953
Interest and Investment Revenues	6,197	9,707	7,272	7,864	591
Other Revenues	6,074	6,956	5,109	5,635	526
Rental Income	7,028	7,025	5,009	4,968	(41)
Grants & Contributions provided for Operating Purposes	33,212	19,210	15,091	14,238	(853)
Grants & Contributions provided for Capital Purposes	27,454	30,955	17,319	18,771	1,453
Other Income:	0	0	0	0	0
Profit/Loss on Disposal of Assets	28,516	28,516	(2,647)	(2,647)	(0)
Total Income from Continuing Operations	395,519	387,427	259,378	262,965	3,587
Expenses From Continuing Operations					
Employee Costs	164,095	165,700	122,561	124,368	(1,807)
Borrowing Costs	557	1,055	784	788	(4)
Materials & Services	102,189	111,583	83,767	75,529	8,238
Other Expenses	24,257	24,504	18,608	19,179	(571)
Depreciation, Amortisation + Impairment	87,113	98,249	72,947	72,970	(23)
Labour Internal Charges	(21,690)	(21,853)	(16,256)	(11,053)	(5,202)
Non-Labour Internal Charges	(2,323)	(2,301)	(1,709)	(1,104)	(604)
Total Expenses From Continuing Operations	354,198	376,937	280,702	280,677	26
Operating Result	41,322	10,489	(21,324)	(17,712)	3,612
Operating Result [pre capital]	13,868	(20,466)	(38,643)	(36,483)	2,160
operating recent [pro capital]	•	Statement	(00,040)	(00,400)	2,100
Net Operating Result for the Year	41,322	10,489	(21,324)	(17,712)	3,612
Add back:	400.044	00.070	07.000	05.000	(0.400)
- Non-cash Operating Transactions	106,241	96,972	97,828	95,398	(2,430)
- Restricted cash used for operations - Income transferred to Restricted Cash	14,601	18,771	14,382 (39,734)	11,895 (39,108)	(2,488) 626
Leases Repaid	(79,972)	(60,780)	` ' /	, , ,	
Payment of Employee Entitlements	(132) (15,763)	(496) (15,763)	(369) (11,757)	(381)	(12)
Funds Available from Operations	66,297	49,193	39,027	35,087	(3,940)
Loans Repaid	(656)	(656)	(656)	(657)	(1)
Advances (made by) / repaid to Council	0	0	0	0	0
Operational Funds Available for Capital Budget	65,642	48,537	38,371	34,430	(3,941)
	Capital Budg	get Statemen	t		
Assets Acquired	(105,995)	(102,791)	(72,424)	(63,950)	8,474
Contributed Assets	(7,014)	(7,014)	(0)	0	0
Transfers to Restricted Cash	(2,607)	(31,123)	(1,576)	(1,576)	0
Funded From :-	65 642	49.527	20 274	24.420	(2.041)
- Operational Funds - Sale of Assets	65,642	48,537 32,066	38,371	34,430 1,712	(3,941)
	3,550		2,518		
- Internally Restricted Cash	13,920	14,006	7,584	6,801	(782)
- Borrowings	0	0	7.522	7 420	0 (402)
- Capital Grants	15,875	15,276	7,533	7,130	(403)
- Developer Contributions (Section 94)	5,135	3,521	2,449	2,618	168
- Other Externally Restricted Cash	1,547	2,631	1,429	1,138	(291)
- Other Capital Contributions	9,161	8,086	770	733	(37)
TOTAL FUNDS SURPLUS / (DEFICIT)	(788)	(16,805)	(13,347)	(10,965)	2,382



Statement of Financial Position		
as at 28 March 2025	YTD Actual 2024/25 \$'000	Actu 2023/ \$'0
Current Assets		
Cash Assets	44,090	44,900
Investment Securities	109,775	116,45
Receivables	35,528	32,37
Inventories	6,523	6,52
Current Contract Assets	7,826	10,77
Other	6,527	3,56
Assets classified as held for sale	0	
Total Current Assets	210,269	214,58
Non-Current Assets		
Non Current Cash Assets	33,000	15,00
Non Current Investment Securities	3,117	3,11
Non-Current Inventories	0	
Property, Plant and Equipment	4,037,540	4,056,15
Investment Properties	5,100	5,10
Intangible Assets	0	
Right-Of-Use Assets	984	1,33
Total Non-Current Assets	4,079,741	4,080,70
TOTAL ASSETS	4,290,010	4,295,28
Current Liabilities		
Current Payables	33,382	22,27
Current Contract Liabilities	15,646	12,54
Current Lease Liabilities	111	46
Current Provisions payable < 12 months	17,186	18,70
Current Provisions payable > 12 months	42,119	42,11
Current Interest Bearing Liabilities	0	65
Total Current Liabilities	108,444	96,75
Non-Current Liabilities		
Non Current Interest Bearing Liabilities	0	
N/C Lease Liabilities	963	96
Non Current Provisions	50,438	49,68
Total Non-Current Liabilities	51,401	50,64
TOTAL LIABILITIES	159,845	147,40
NET ASSETS	4,130,165	4,147,87
Equity		
Accumulated Surplus	1,507,654	1,534,63
Asset Revaluation Reserve	2,465,253	2,466,36
Restricted Assets	157,258	146,88
TOTAL EQUITY	4,130,165	4,147,87



Cash Flows and Investments		
as at 28 March 2025		
	YTD Actual	Actual
	2024/25	2023/24
	\$ '000	\$ '000
Cash Flows From Operating Activities Receipts		
Rates & Annual Charges	194,376	232,873
User Charges & Fees	25,305	42,526
Interest & Interest Received	6,662	8,575
Grants & Contributions	42,326	68,654
Bonds, deposits and retention amounts received	263	886
Other	24,307	29,432
Payments		
Employee Benefits & On-costs	(115,222)	(142,434)
Materials & Contracts	(86,835)	(138,853)
Borrowing Costs	(36)	(127)
Bonds, deposits and retention amounts refunded		(1,352)
Other	(21,064)	1,578
Net Cash provided (or used in) Operating Activities	70,082	101,758
	10,002	101,700
Cash Flows From Investing Activities		
Receipts	00.040	07.040
Sale of Investments	39,649	37,813
Sale of Investment Property Sale of Real Estate Assets		
Sale of Real Estate Assets Sale of Infrastructure, Property, Plant & Equipment	1 710	0.40
	1,712	848
Payments: Purchase of Investments	(50,400)	(00.000)
	(50,128)	(38,090)
Purchase of Investment Property	- (21.122)	
Purchase of Infrastructure, Property, Plant & Equipment	(61,120)	(98,797)
Net Cash provided (or used in) Investing Activities	(69,886)	(98,226)
Cash Flows From Financing Activities		
Payments:		
Repayment of Borrowings & Advances	(657)	(2,572)
Repayment of Finance Lease Liabilities	(349)	(431
Net Cook Flour annided (weed in) Financian Activities	(4.000)	(2.002)
Net Cash Flow provided (used in) Financing Activities	(1,006)	(3,003)
Net Increase/(Decrease) in Cash & Cash Equivalents	(810)	529
plus: Cash & Cash Equivalents - beginning of year	44,900	44,371
plus: Investments on hand - end of year	145,892	134,574
pido. Investmento di fianti - end di year	143,032	104,374
Cook & Cook Engine lands and Investments	400.000	470 474
Cash & Cash Equivalents and Investments - year to date	189,982	179.474

WOLLONGONG CITY COUNCIL		
Cash Flows and Investments		
as at 28 March 2025		
	YTD Actual 2024/25 \$ '000	Actual 2023/24 \$ '000
Total Cash & Cash Equivalents and Investments - year to date	189,982	179,474
Attributable to:		
External Restrictions (refer below)	100,980	86,881
Internal Restrictions (refer below)	67,580	68,674
Unrestricted	21,422	23,919
	189,982	179,474
External Restrictions		
Developer Contributions	67,033	55,949
RMS Contributions	529	422
Specific Purpose Unexpended Grants	14,278	11,730
Special Rates Lew Wollongong Mall	1,025	962
Special Rates Lew Wollongong City Centre	94	94
Local Infrastructure Renewal Scheme	-	
Unexpended Loans	959	924
Domestic Waste Management	5,905	5,321
Private Subsidies	7,544	6,943
Housing Affordability	3,094	3,029
Stormwater Management Service Charge	519	1,507
Total External Restrictions	100,980	86,881
Internal Restrictions		
Property Investment Fund	5,560	5,396
Strategic Projects	31,960	32,99
Sports Priority Program	825	524
Car Parking Stategy	1,393	1,223
MacCabe Park Development	2,152	2,040
Darcy Wentworth Park	18	18
Garbage Disposal Facility	8,871	10,854
West Dapto Development	16,097	14,927
Natural Areas	173 531	173 528
Lake Illawarra Estuary Management Fund	331	526
Total Internal Restrictions	67,580	68,674



Notes to the Financial Statements:

While reviewing the information presented through this report, it should be noted that Council has elected to process additional transactions that vary from the accounting standards applied to year end reports to ensure the information at monthly intervals provides support to the decision-making and monitoring process. These transactions are summarised below:

- Timing of the recognition of Rates income under AASB 1058, the Rates income is required to be recognised when it is raised. Through the monthly financial reports, the income has been spread across the financial year.
- Timing of the recognition of Financial Assistance Grant under AASB 1058, the Financial Assistance Grant is required to be recognised on receipt. Through these financial reports, the income is spread across the financial year.



ITEM 14 STATEMENT OF INVESTMENT - MARCH 2025

This report provides an overview of Council's investment portfolio performance for the reporting period March 2025.

Council had an average weighted return for March 2025 of 0.20% which was below the benchmark return of 0.35%. The result was primarily due to the negative valuations on the consolidated NSW TCorp investments and negative valuations of the consolidated Floating Rate Notes. The remainder of Council's portfolio continues to provide a high degree of credit quality and liquidity.

RECOMMENDATION

Council receive the Statement of Investment for March 2025.

REPORT AUTHORISATIONS

Report of: Brian Jenkins. Chief Financial Officer

Authorised by: Todd Hopwood, Director Corporate Services - Connected + Engaged City (Acting)

ATTACHMENTS

- 1 Statement of Investment March 2025
- 2 Investment Income Compared to Budget 2024-2025

BACKGROUND

Council staff monitor Council's cash flow on a daily basis and are mandated to invest surplus funds in accordance with the Ministerial Investment Order and Office of Local Government guidelines. The Order reflects a conservative investment approach and restricts investment types available to Council. In compliance with the Order and Office of Local Government guidelines, Council adopted an Investment Policy on 12 December 2022. The Investment Policy provides a framework for Council to manage investment credit quality, institutional diversification and maturity constraints. Council's investment portfolio was controlled by Council's Finance Division during the period and has remained in compliance with the Investment Policy. Council's Audit, Risk and Improvement Committee (ARIC) provide oversight of Council's Investment Policy and Investment Management Strategy.

Council's Responsible Accounting Officer, the Chief Financial Officer, is required to sign the complying Statement of Investment contained within the report, certifying that all investments were made in accordance with the Local Government Act 1993 and the Local Government Regulation 2005.

Council's investment holdings as at 28 March 2025 were \$190,105,371 (Statement of Investment attached) [29 March 2024 \$179,222,565] and includes Council's interest in CivicRisk Mutual Ltd recognised at fair value as at 30 June 2024.

Council had an average weighted return for March 2025 of 0.20% which was below the benchmark return of 0.35%. The result was primarily due to the negative valuations on the consolidated NSW TCorp investments and negative valuations of the consolidated Floating Rate Notes. The remainder of Council's portfolio continues to provide a high degree of credit quality and liquidity. The global markets are still experiencing levels of volatility in interest rates, driven by the persistent inflation issues. Australia's inflation has fallen substantially since the peak in 2022, and longer-term inflation expectations remain on target, however, the medium-term predictions have been revised upward slightly as the Reserve Bank of Australia (RBA) Board remains cautious about the outlook, with underlying factors easing. Rates available to Council on purchased investments are assessed regularly and across credit and maturity spread to maximise returns on committed capital.

At 28 March 2025, year to date interest and investment revenue of \$6,942,081 was recognised compared to the year-to-date proposed budget of \$6,529,933.

Council's 21 floating rate notes had a net decrease in value of \$250,168 for March 2025.

Council holds two Mortgaged Backed Securities (MBS) that recorded a net increase in value of \$8,607 for March 2025. The market value of this security considers the extended term of the security with limited liquidity, and the coupon margin reflects pre-Global Financial Crisis (GFC) pricing. While the maturity



dates are outside Council's control, the investment advisors had previously indicated capital is not at risk at this stage and recommended a hold strategy due to the illiquid nature of the investment.

Council holds two investments within the NSW TCorpIM Funds; Long-Term Growth Fund and Medium-Term Growth Fund. The Long-Term Growth Fund recorded a net decrease in value of \$100,503 and the Medium-Term Growth Fund recorded a net decrease in value of \$45,462 in March 2025. The fluctuations in both the Long-Term Growth and Medium-Term Growth Funds reflect the current share market volatility both domestically and internationally and is diversified across a number of different asset classes with differing risk and return characteristics.

The RBA Board now meets eight times each year in order to spread monetary policy decisions across fewer meetings and allow the Board to gather more information. At their April 2025 meeting, the RBA decided to hold the official cash rate at 4.10%. The RBA will continue to monitor uncertainties regarding the global economy, trends in demand, developments and adjust policy as needed as based on the data and evolving assessment of risks to return inflation to target of 2%–3%.

The current Investment Policy sets a 40% maximum exposure limit to individual institutions within the AAA category. This limit is currently considered to include funds held within the Commonwealth Bank (CBA), savings account which holds Council's operating cash balances. At the end of March 2025, the exposure to CBA was 23.05%, which is below the investment strategy target of 25%.

The current investment portfolio complies with Council's Investment Policy which was endorsed by Council on 12 December 2022. Council's Responsible Accounting Officer has signed the Statement of Investment contained within the report, certifying all investments were made in accordance with the Local Government Act 1993 and the Local Government (General) Regulation 2021.

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong Our Future 2032 Goal 4 "We are a connected and engaged community". It specifically delivers on the following:

Community Strategic Plan 2032		Delivery Program 2022-2026
	Strategy	Service
4.8	Council's resources are managed effectively to ensure long term financial sustainability.	Financial Services

CONCLUSION

The investments for March 2025 recorded an average weighted return that was below the AusBond Bank Bill Index Benchmark and performed favourably when compared to the year-to-date budget.



		WOLLONG	GONG CITY COUNCIL				
		STATEME	NT OF INVESTMENT				
			March 2025				
DIRECT INVESTMENTS							
Investment Body	Rating	Purchase Price \$	Fair Value of Holding \$	Security	Purchase Date	Maturity Date	Interest / Coupon Rate
CBA Business Online Saver	A1+	-	43,084,703	BOS A/c	28/03/2025	28/03/2025	4.359
CBA General Fund A/c	A1+	-	1,123,067	General A/c	28/03/2025	28/03/2025	4.359
NAB General Fund A/c	A1+	-	5,422	General A/c	28/03/2025	28/03/2025	
Westpac Banking Corporation Ltd	S&P AA-	2,000,000	2,000,000	T/Deposit	4/12/2023	4/04/2025	5.32%
ING Bank Australia Limited	S&P ST A1	1,000,000	1,000,000	T/Deposit	26/08/2024	28/04/2025	4.88%
National Australia Bank Ltd	S&P ST A1+	2,000,000	2,000,000	T/Deposit	28/08/2024	28/04/2025	5.00%
Bendigo & Adelaide Bank Ltd	Moodys A3	2,000,000	2,000,000	T/Deposit	9/06/2023	9/05/2025	5.45%
National Australia Bank Ltd	S&P ST A1+	2,000,000	2,000,000	T/Deposit	28/08/2024	26/05/2025	5.00%
Summerland Bank	Unrated ST UR	250,000	250,000	T/Deposit	6/06/2024	6/06/2025	5.36%
Bank of Queensland Ltd	Moodys A3	2,000,000	2,000,000	T/Deposit	30/06/2023	30/06/2025	5.50%
Westpac Banking Corporation Ltd	S&P AA-	2,000,000	2,000,000	T/Deposit	30/06/2023	30/06/2025	5.35%
IMB Ltd	Moodys ST P-2	2,000,000	2,000,000	T/Deposit	26/03/2025	3/07/2025	4.75%
Bank of Sydney Ltd	Unrated ST UR	250,000	250,000	T/Deposit	11/12/2024	9/07/2025	5.00%
Rabobank Australia Ltd	S&P ST A1	2,000,000	2,000,000	T/Deposit	10/07/2024	10/07/2025	5.43%
Rabobank Australia Ltd	S&P A+	2,000,000	2,000,000	T/Deposit	23/08/2024	25/08/2025	4.94%
National Australia Bank Ltd	S&P ST A1+	2,000,000	2,000,000	T/Deposit	28/08/2024	28/08/2025	5.00%
Judo Bank	S&P ST A2	2,000,000	2,000,000	T/Deposit	17/09/2024	17/09/2025	4.60%
National Australia Bank Ltd	S&P AA-	3,000,000	3,000,000	T/Deposit	20/09/2024	22/09/2025	4.90%
Auswide Bank Limited	Moodys ST P-2	2,000,000	2,000,000	T/Deposit	15/01/2025	15/10/2025	5.00%
Westpac Banking Corporation Ltd	S&P AA-	3,000,000	3,000,000	T/Deposit	25/11/2022	25/11/2025	4.59%
Bank of Queensland Ltd	S&P ST A2	4,000,000	4,000,000	T/Deposit	2/12/2024	2/12/2025	5.03%
Coastline Credit Union Ltd	Unrated ST UR	250,000	250,000	T/Deposit	5/12/2024	5/12/2025	5.15%
Westpac Banking Corporation Ltd	S&P AA-	2,000,000	2,000,000	T/Deposit	20/09/2024	20/04/2026	4.62%
ING Bank Australia Limited	S&P A	5,000,000	5,000,000	T/Deposit	13/03/2025	13/05/2026	4.69%
Westpac Banking Corporation Ltd	S&P AA-	2,000,000	2,000,000	T/Deposit	30/06/2023	30/06/2026	5.19%
ING Bank Australia Limited	S&P A	2,000,000	2,000,000	T/Deposit	20/09/2024	20/07/2026	4.46%
ING Bank Australia Limited	S&P A	2,000,000	2,000,000	T/Deposit	15/01/2025	15/12/2026	4.84%
Westpac Banking Corporation Ltd	S&P AA-	2,000,000	2,000,000	T/Deposit	30/06/2023	30/06/2027	5.09%
Westpac Banking Corporation Ltd	S&P AA-	5,000,000	5,000,000	T/Deposit	22/12/2023	22/12/2028	4.90%
ING Bank Australia Limited	S&P A	3,000,000	3,000,000	T/Deposit	21/02/2024	21/02/2029	5.19%
ING Bank Australia Limited	S&P A	4,000,000	4,000,000	T/Deposit	15/01/2025	15/01/2030	5.089
Rabobank Australia Ltd	S&P A+	4,000,000	4,000,000	T/Deposit	12/02/2025	12/02/2030	5.10%
Rabobank Australia Ltd	S&P A+	2,000,000	2,000,000	T/Deposit	26/03/2025	26/03/2030	5.01%
Total			112,963,193				

Bond and Floating Rate Note Securities

DIRECT INVESTMENTS	· · · · · · · · · · · · · · · · · · ·							
Investment Body	Rating	Purchase Price \$	Fair Value of Holding \$	Security	Purchase Date	Maturity Date	Interest / Coupon Rate	
Bendigo & Adelaide Bank Ltd	S&P A-	1,700,000	1,705,474	FRN	2/12/2020	2/12/2025	4.64%	
Macquarie Bank Ltd	S&P A+	6,500,000	6,516,705	FRN	11/03/2022	9/12/2025	4.59%	
Suncorp Bank (Norfina Ltd) - Subsidiary of ANZ	S&P AA-	2,100,000	2,107,917	FRN	24/02/2021	24/02/2026	4.58%	
Newcastle Greater Mutual Group Ltd	S&P BBB+	5,000,000	5,009,300	FRN	4/03/2021	4/03/2026	4.75%	
ANZ Banking Group Ltd	S&P AA-	2,500,000	2,542,375	FRN	31/03/2023	31/03/2026	5.25%	
Teachers Mutual Bank Ltd	Moodys Baa1	1,100,000	1,100,517	FRN	16/06/2021	16/06/2026	4.79%	
ANZ Banking Group Ltd	S&P AA-	2,500,000	2,516,100	FRN	11/09/2023	11/09/2026	4.86%	
Macquarie Bank Ltd	S&P A+	4,000,000	4,024,480	FRN	14/09/2023	14/09/2026	4.96%	
Suncorp Bank (Norfina Ltd) - Subsidiary of ANZ	S&P AA-	3,750,000	3,751,050	FRN	15/09/2021	15/09/2026	4.59%	
QPCU LTD t/a QBANK	S&P BBB-	2,000,000	2,024,880	FRN	18/09/2023	18/09/2026	5.76%	
Illawarra Credit Union Ltd	S&P BBB-	2,500,000	2,502,650	FRN	20/09/2023	21/09/2026	5.81%	
Suncorp Bank (Norfina Ltd) - Subsidiary of ANZ	S&P AA-	1,500,000	1,516,035	FRN	11/03/2022	25/01/2027	5.07%	
ANZ Banking Group Ltd	S&P AA-	3,500,000	3,551,135	FRN	12/05/2022	12/05/2027	5.17%	
Suncorp Bank (Norfina Ltd) - Subsidiary of ANZ	S&P AA-	3,000,000	3,041,580	FRN	24/11/2023	24/05/2027	5.23%	
Cooperatieve Rabobank U.A Australia Branch	S&P A+	2,500,000	2,555,275	FRN	19/01/2023	19/01/2028	5.51%	
ANZ Banking Group Ltd	S&P AA-	2,500,000	2,559,325	FRN	31/03/2023	31/03/2028	5.48%	
Emerald Reverse Mortgage Trust	Unrated UR	314,548	253,022	MBS	17/07/2006	30/06/2028	4.59%	
ANZ Banking Group Ltd	S&P AA-	2,100,000	2,118,207	FRN	11/09/2023	11/09/2028	5.04%	
Westpac Banking Corporation Ltd	S&P AA-	3,500,000	3,526,600	FRN	19/09/2023	19/09/2028	5.04%	
National Australia Bank Ltd	S&P AA-	4,000,000	4,197,640	FRN	16/11/2023	16/11/2028	5.40%	
Cooperatieve Rabobank U.A Australia Branch	S&P A+	3,000,000	3,171,360	FRN	21/11/2023	21/11/2028	5.71%	
Beyond Bank Australia Ltd	Moodys Baa1	2,500,000	2,504,450	FRN	21/03/2025	21/03/2028	5.26%	
Emerald Reverse Mortgage Trust	Unrated UR	2,000,000	1,309,380	MBS	17/07/2006	21/08/2056	4.89%	
Total			64,105,457					

Managed Funds & Other

MANAGED FUNDS						
Investment Body	Rating	Purchase Price \$	Fair Value of Holding \$	Purchase Date	Monthly	FYTD (Actual)
Tcorp Long Term Growth Facility Fund	N/A		4,467,669	13/06/2007	-2.20%	6.52%
Tcorp Medium Term Growth Facility Fund	N/A		5,452,053	26/10/2021	-0.83%	4.72%
Total			9,919,721			

Membership interest in Investment Body	Fair Value of Holding \$		
CivicRisk Mutual Limited	N/A		3,117,000

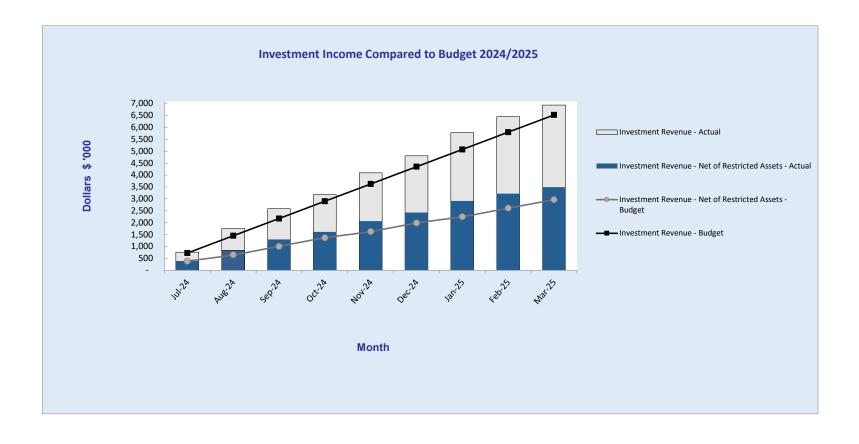
TOTAL INVESTMENTS

This is to certify that all of the above investments have been placed in accordance with the Act, the regulations and Council's Investment Policies.

Brian Jenkins

RESPONSIBLE ACCOUNTING OFFICER

^{*} The maturity date provided is the weighted-average life of the security. This is the average amount of time that will elapse from the date of security's issuance until each dollar is repaid based on an actuarial assessment. Assessments are carried out on a regular basis which can potentially extend the life of the investment. Current assessments anticipate an extension of life of the investment.





ITEM 15 RETURNS OF DISCLOSURES OF PECUNIARY INTERESTS - MAY 2025

The Model Code of Conduct requires the General Manager to table all Returns of Disclosures of Interest lodged by persons nominated as designated persons. Returns are tabled at the next council meeting after they are received. An electronic register of these returns will be tabled at the meeting in accordance with the Model Code of Conduct.

RECOMMENDATION

Council notes the tabling of the Returns of Disclosures of Interest as required by Part 4 of the Model Code of Conduct.

REPORT AUTHORISATIONS

Authorised by: Todd Hopwood, Director Corporate Services - Connected + Engaged City (Acting)

ATTACHMENTS

There are no attachments for this report

PLANNING AND POLICY IMPACT

This report contributes to the delivery of Our Wollongong 2032 goal "We are a connected and engaged community".

It specifically delivers on core business activities as detailed in the Customer and Business Integrity Business Plan 2024-25.



NOTICE OF MOTION - COUNCILLOR RYAN MORRIS - INCREASED RATE RELIEF FOR AGED PENSIONERS

Councillor Ryan Morris has submitted the following Notice of Motion –

"I formally move that -

- 1 Council receive a report detailing options for implementing a cost neutral Voluntary Rebate for eligible pensioners, in addition to the \$250 pensioner rates discount currently available. The report should include, but not be limited to
 - a Detail of eligibility criteria for the Voluntary Rebate, such as the requirement that eligible pensioners must have been a rate payer in the Wollongong LGA for a minimum of 15 years.
 - b A review of the Voluntary Rebate be undertaken every term of council.
- The report be delivered within 3 months to allow due consideration prior to implementation of the report recommendations."

Background provided by Councillor Morris:

The aged pension discount, as provided for by Section 575 of the *Local Government Act 1993* has not been revised since 1993. Significant rises in the cost of living have been felt by nearly all during those 32 years, however, the pensioner discount has not changed during this time.

Currently, Wollongong City Council does not offer a voluntary rebate to aged pensioners. The introduction of a voluntary rebate with a restrictive eligibility criterion of having been a Wollongong rate payer for a minimum of 15 years, rewards those who have paid into the system over decades and excludes those who sell up in other areas and move to the LGA with hefty bank balances, until they have made similar contributions to the city.

The aged pensioners of the LGA helped build the foundations that make Wollongong the city it is today. This small but impactful Voluntary Rebate will go some way to helping those who are no longer able to work but have worked hard for our city and should be rewarded for their stewardship.



NOTICE OF MOTION - COUNCILLOR LINDA CAMPBELL - SCREEN FRIENDLY COUNCIL ACCREDITATION

Councillor Linda Campbell has submitted the following Notice of Motion –

"I formally move that Wollongong City Council -

- 1 Actively seeks early accreditation as a screen friendly Council.
- 2 Looks for opportunities to contribute to the development of the guidelines and processes surrounding accreditation."

Background provided by Councillor Linda Campbell:

The Screen and Digital Games Industries Bill 2025 has been adopted to encourage and support screen and digital games production in NSW.

The bill includes key principles that public service decision-makers across the New South Wales government and local councils must consider in relation to facilitating screen and digital games production. These principles include ensuring that approvals are timely, fees are reasonable, and the default response is to support the production unless there are specific reasons not to.

It also includes the introduction of, and opportunity for, Councils to be accredited as screen production friendly Councils. This reflects the key role that councils play in supporting the film sector and allows the most supportive councils to be recognised for their valuable role.

Eligibility and the process for accreditation will be determined by guidelines issued by the Minister, allowing time for these matters to be developed and consulted on with key stakeholders. Criteria for accreditation of councils could include effective, long-term compliance with the Local Government Filming Protocol, including maintaining a film contact officer role and prominently displaying information about filming application and permit processes on their websites.

It could mean promoting filming in their area to the industry by contributing location images and information to the Screen NSW locations database. It may include council film contact officers completing a Screen NSW run screen-friendly training and certification course. Overall, to be accredited, the Government will be looking to councils that are willing to go above and beyond in encouraging filming in their local government areas and in making it easier for screen productions.

The bill includes amendments to division 4 of the Local Government Act to deliver on and be consistent with the goals outlined. Specifically, in section 116, the number of days within which a council must acknowledge receipt of an application to film has been reduced from seven days to two business days. This reflects contemporary business practices and technologies, such as automated email responses, which are the norm. In addition, amendments are proposed to section 117 to provide that the maximum application fee payable and the number of days within which an applicant must pay fees to a council be outlined in the Local Government Filming Protocol instead of the Act and regulations.

Having input into the development of guidelines and processes will assist to ensure relevance and workability for Council.

Wollongong offers a compelling mix of diverse locations, a growing local film industry, and economic benefits, making it an attractive place for film production, as evidenced by recent projects like "Return to Paradise" and "One Night".

Wollongong is home to diverse and scenic locations: coastal beauty, industrial landscapes, escarpment and urban areas. It has an active and growing local film industry with existing connections within a range of skilled creatives and local talent.

Screen Illawarra has played a key role in bringing together many of these and connecting productions with local talent and resources, including the recent industry visits which attracted key decisions maker from both local and overseas companies.

Potential economic benefits include increased local spending, creating local jobs in both the film industry and related sectors including hospitality, transportation and accommodation.



Early accreditation as a screen friendly council may be a key advantage for Wollongong City Council in our bid to attract this growing industry to our City.



NOTICE OF MOTION - COUNCILLOR DAN HAYES - DEVELOPMENT PROGRESS AGAINST STRATEGIC PLANS

Councillor Dan Hayes has submitted the following Notice of Motion -

"I formally move that Council receives a report in 2025 outlining the best approach to a public facing document that is reported to council that achieves the following –

- a Lists the development targets stated in our relevant strategic plans and other documents.
- b Shows the progress made against those targets including applications, approvals, and refusals of development applications.
- c Updates the report when new targets are approved, or changes made to existing documents."

Background provided by Councillor Dan Hayes:

Wollongong City Council sets ambitious development targets for meeting the needs of the community, now and into the future.

A number of these targets are listed in a range of documents, and they are not collated in one place. This makes it difficult to track the success of the development related goals. These development goals may include such items as:

- Childcare centres
- Aged care facilities
- Residential homes
- Tourism accommodation
- Health services

The current approach requires waiting for those individual plans to be either reported on or updated, which often quarantines related targets from each other. For example, an increase in housing would require more childcare centres.

Creating a new report that collates these ambitious development targets would be of significant benefit as it would enable Councillors and the community to easily see the progress, success and challenges of these targets.



ITEM 19 QUESTION WITH NOTICE - RECOGNITION OF FEDERATION

QUESTION SUBMITTED BY

Councillor Ryan Morris

QUESTION

"With the 125th anniversary of the Federation of Australia being celebrated in 2026 –

- 1 What events will be proposed by council?
- 2 What, if any, federal grants are available to conduct ceremonies or commemorative events?"

ANSWER

At this point in time, Council has not allocated resources to holding any events to mark the 125th anniversary of the Federation of Australia.

Across 2025 and early 2026, Council will deliver Culture Mix, a pilot event for the Permit Plug Play Pilot Program, New Year's Eve, Australia Day, Carols in the Park and potentially an Open Streets event (pending advice in May 2025 of a successful grant application), as well as a number of smaller civic events including Lord Mayor's Giving Tree, Bikers Toy Run arrival and City of Wollongong Awards.

In addition, in October 2025 Council staff will support the delivery of Council's Host City commitments for the 2025 World Triathlon Championships Finals.

Without commitment of both funding and additional staffing resource, there is no further capacity to deliver additional events for the Federation of Australia's anniversary.

Council annually applies for federal funding via the Australia Day Community Grants. We are not aware of any grants specifically being offered to support events marking the 125th anniversary of the Federation of Australia. We are aware that Randwick Council is planning a series of events in Centennial Park (which is where the important document was signed at the time).