



# Drainage and Flood Mitigation Asset Management Plan

April 2023

Version No. 3

Hay Shire Council

Drainage and Flood Mitigation Asset Management Plan

## How to use this Plan

This Asset Management Plan (AMP) is a tactical document to support Councils understanding of its Drainage and Flood Mitigation Assets, service levels, risks and to provide operational and capital expenditure forecasts that will deliver the community outcomes detailed in the Community Strategy 2022-2032. The AMP is set out in the following format to support easy navigation of its contents such that specific information can be readily identified to suit the reader's need.

- **Executive Summary**  
This provides an overview suitable for obtaining a high-level understanding of the key issues and outcomes of the AMP. This is intended for senior decision makers and is supported by the detail in the following sections that make up the body of the AMP.
- **Section 1 - Introduction**  
This section is the introduction that defines the plan's purpose, its scope and how the AMP aligns with corporate objectives and goals. It 'sets the scene' for the AMP and how it relates to the wider organisational plan framework.
- **Section 2 – Data Details**  
Defines the AMP's data inputs and assumptions. It includes the Asset Summary, Prior Year Infrastructure Delivery, Asset Age, Asset Condition Assessment Criteria, Results Summary, Asset profiling, Hierarchy, Useful Life and Data confidence ratings.
- **Sections 3,4, and 5 – AMP Inputs (Service levels, Risk and Growth)**  
Defines Councils' service levels, current risks and demand considerations that have been used in developing this AMP. This is the basis on which the following sections have been developed.
- **Sections 6,7,8,9 and 10 - 10-year forecasts**  
Provides the detailed 'output' of the AMP development process with forecasts over a 10-year horizon of the works required to maintain the current service levels, mitigate identified risks and cater for service growth and increased demand.
- **Sections 11,12 and 13 – Financial forecasts**  
Focus on the financial aspects of the delivering these service levels including anticipated 'financial sustainability' performance. This section is particularly relevant to inform decision making and guide continual improvement in both the AMP and achieving corporate goals.
- **Section 14 – Findings and Recommendations**  
Provides a summary of the key issues and actions to be considered by Council. It includes a statement on the reliability and confidence of information to also be considered.
- **Section 15-AMP Improvement Plan**  
Provides an action plan improve future iterations of the AMP, particularly the improvement of the plan's accuracy and reliance as a decision-making tool.
- **Appendices**  
Information which is required in the AMP as reference is in the appendices. It also includes detailed works programs for new and renewal capital works that align with funding requirements and are to be aligned with short to medium term detailed operational planning.

## Document Control

### Distribution / Stakeholder list

All key stakeholders are to be included on the distribution list.

Name	Initial	Date	Title/Business Unit
Jack Terblanche			Director Infrastructure and Planning
Mark Dowling			Director of Corporate & Community
Greg Stewart			Manager Operations
Kate Stephens			Manager Finance

- Stakeholders are initial the final document to indicate that the report has been signed and reviewed.

### Revision History

Document Version	Date	Comments	Author	Reviewer
1	15/1/22	Initial Draft	David Webb	Mark Dowling
2	16/06/22	Revision	David Webb	Mark Dowling
3	1/4/2023	Revision/Update	David Webb	Mark Dowling

### Certification

As the Principal officer/Asset Custodian responsible for preparing this AMP, I certify that if:

- Has been on a series of assumptions and the best available data at the time;
- Provides a rationale for and underpins the renewal funding as specified in the related 10-year service financial forecasts; and
- Provides a strong platform from which to continue asset management advancement by identifying several areas for further improvement.

Principal Officer (if applicable): \_\_\_\_\_ Signature: \_\_\_\_\_

Asset Custodian: \_\_\_\_\_ Signature \_\_\_\_\_

Date: \_\_\_\_\_

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## Executive Summary

### Purpose

The purpose of this Asset Management Plan (AMP) is to consolidate Councils understanding of its Drainage and Flood Mitigation Assets, service levels, risks and to provide operational and capital expenditure forecasts that will deliver the community outcomes detailed in the Community Strategic Plan 2022-2032.

The plan will support informed decision making, guide Long Term Financial Planning budget requirements and provide a path to further improve the accuracy and confidence in future iterations of this plan.

### Scope

This Asset Management Plan (AMP) covers the Drainage and Flood Mitigation Assets (the Assets) that support the delivery of services to the Hay Shire Council (Council) Community. It has been prepared based on the International Infrastructure Management Manual (IIMM) the recognised guideline for asset management in Australia.

The AMP uses data available within Council in 2021 including Council's audited financial asset register, based on revaluations undertaken by APV in 2021. Where possible, the financial register has been supplemented by historical condition data.

### The Assets

The Drainage and Flood Mitigation Assets are valued at \$19.33M and are apportioned into asset categories as detailed in Table 1 below.

Table 1: Drainage and Flood Mitigation Assets Summary

<i>Asset Type</i>	<i>Replacement Value (June 2021)</i>
Rural Culvert	\$5,484,380
Stormwater Pipe	\$11,022,350
Stormwater Pit	\$2,757,704
Urban Culvert	\$67,652
Flood Levee System	\$0
<i>Total</i>	<i>\$19,332,086</i>

Council is currently undertaking a flood study which will include developing plans to construct licensed levee systems within the Shire. The current unlicensed levees have not been valued or included in Councils asset register.

### Asset Condition

The majority 82% of the Drainage and Flood Mitigation Assets good condition and do not require any attention other than routine maintenance. However, Council's asset data indicates that 1.4% (\$285K) are in very poor condition and are failing or have failed.

The majority 90% of the poor and very poor assets are rural culverts.



Council's Long-Term Financial Plan (LTFP) has allocated funding for Drainage and Flood Mitigation Capital expenditure as shown in Table 2 Long Term Financial Plan below. In preparing this plan it has been assumed that Current levels of operation and maintenance funding will continue.

Council's LTFP fully funds the Drainage and Flood Mitigation new/upgrade, asset renewals. Operations and maintenance programs.

Table 2: Long Term Financial Plan

<i>Financial Year Ending</i>	<i>Operations &amp; Maintenance</i>	<i>Renewals</i>	<i>Total</i>
2022/23	\$55,000	\$67,000	\$122,000
2023/24	\$56,375	\$60,000	\$116,375
2024/25	\$57,784	\$55,000	\$112,784
2025/26	\$59,229	\$50,000	\$109,229
2026/27	\$60,710	\$45,500	\$106,210
2027/28	\$62,227	\$40,000	\$102,227
2028/29	\$63,783	\$45,000	\$108,783
2029/30	\$65,378	\$40,000	\$105,378
2030/31	\$67,012	\$50,000	\$117,012
2031/32	\$68,688	\$40,000	\$108,688
<b>Total</b>	<b>\$616,186</b>	<b>\$492,500</b>	<b>\$1,108,686</b>

The 10-year expenditure forecast for the delivery of Drainage and Flood Mitigation services is \$1.1M or \$110K per annum. This figure is fully funded in the LTFP.

### 10-year Expenditure Forecasts

Based on the analysis of Council's expenditure requirements for asset renewal, operations and maintenance there is sufficient funding in the Long-Term Financial Plan to sustain current service levels.

However, the issue for the Council and community is that the current levee systems in place in the Shire are not licensed with a flood study currently underway to determine the way forward. It is likely that a substantial amount of construction works will be required some of which may qualify for funding. Councils' contributions for the works have not been included in the LTFP which will need to be further considered when full details of the required works are known.

### Asset Valuations

Table 3: Asset Valuations

	<b>Replacement Value</b>	<b>Accumulated Depreciation</b>	<b>Fair Value</b>	<b>Depreciation Expense</b>
Rural Culvert	\$5,484,380	\$2,049,203	\$3,435,178	\$62,353
Stormwater Pipe	\$11,022,350	\$5,660,687	\$5,361,663	\$109,711
Stormwater Pit	\$2,757,704	\$638,490	\$2,119,213	\$30,146
Urban Culvert	\$67,652	\$2,8455	\$39,197	\$804
Flood Levee Systems	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$19,332,086</b>	<b>\$8,376,836</b>	<b>\$1,095,5251</b>	<b>\$203,014</b>



# Introduction

## Purpose

The purpose of this Asset Management Plan (AMP or Plan) is to:

- Consolidate Hay Shire Council's (Council's) understanding of its assets within the Drainage and Flood Mitigation asset class
- Document levels of Service and risk
- Provide short and medium – term capital works plans
- Support informed decision making and guide Long-Term Financial Planning budget requirements
- Provide a plan to work towards improved accuracy and confidence in future iterations of this Plan.

## Scope

This AMP relates to the management of Drainage and Flood Mitigation Infrastructure assets (the Assets) which are recognised assets owned by Council. Assets in this class typically comprise of the following classes:

- Rural Culvert
- Stormwater Pipe
- Stormwater Pit
- Urban Culvert
- Levee

## Corporate Context

In 2009 a new Integrated Planning Reporting (IP&R) framework for NSW local government was introduced. The IP&R framework requires councils to prepare a suite of long-term strategic documents, including a Community Strategic Plan, Resourcing Strategy and Delivery Plan Program, as well as an annual Operational Plan. Integration of these strategic documents is key to effective long-term planning and assist us in providing ratepayers with the best level of service that we can.

Table 4 illustrates how the IP&R framework ensures that local planning and reporting is informed, relevant and responsive to community needs.

[illegible]

- Where do we want to be in 10 years?
- How will we get there?
- How will we know when we have arrived?

At an operational level, the Community Strategic Plan is implemented through Council's Delivery Plan and annual Operations Plans, which outlines the activities and actions that are the responsibility of Council in achieving our shared vision.

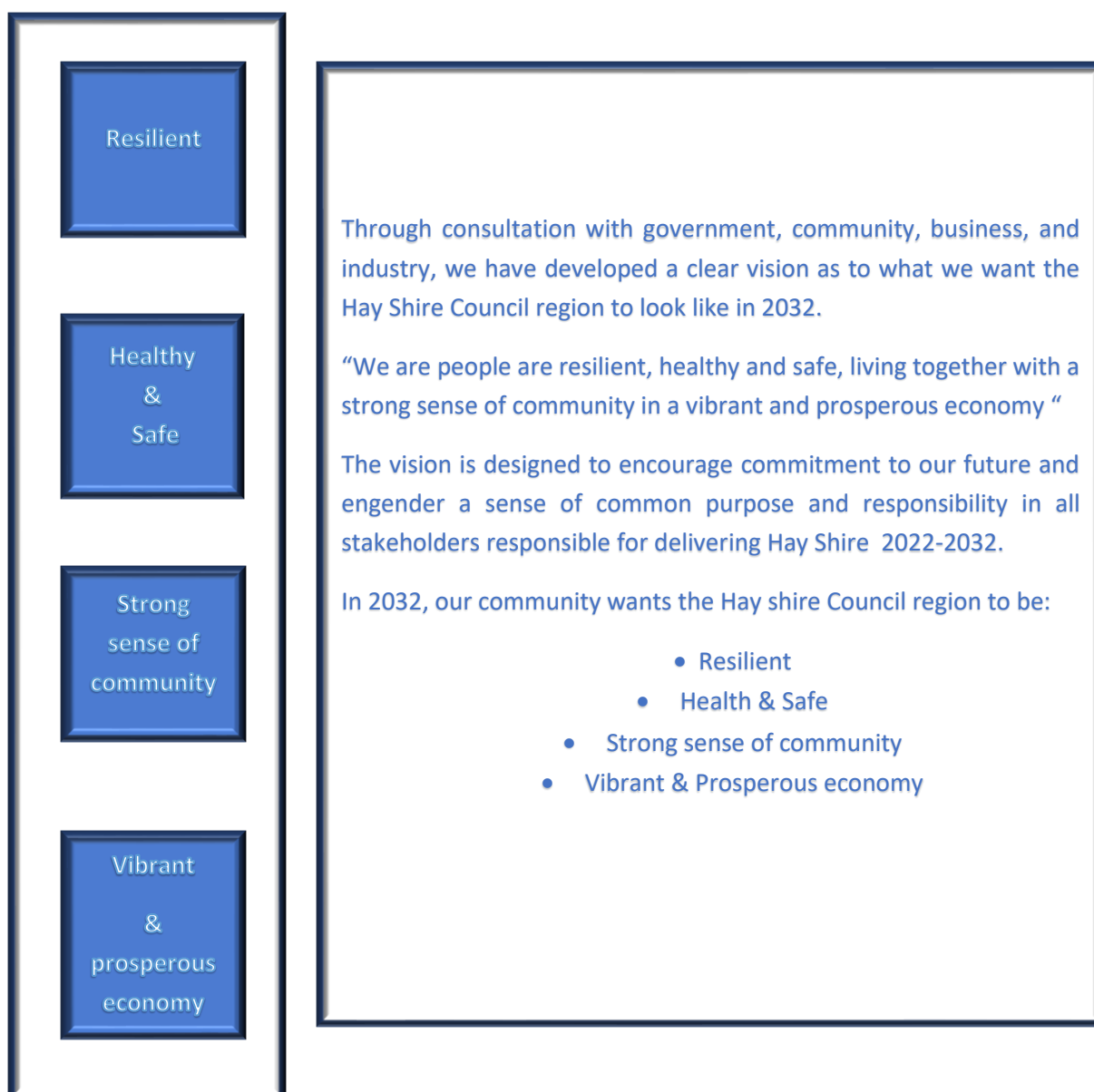
### Resourcing Strategy

The Hay Shire 2022-2032 Community Strategic Plan (CSP) provides vehicle for expressing our community 's long-term aspirations. However, the vision set out in this Plan will not be achieved without sufficient resources – time, money, assets and people – to carry them out.

The Resourcing Strategy comprises the following components:

- **Asset Management Planning:** Council's asset management planning is supported by a governance model that includes an Asset Management Policy, Asset Management Strategy, and individual Asset Management Plans for all assets under Council's control. The Asset Management Plans are based on 'whole of life' asset management from planning, purchase, operation, and maintenance - to disposal of assets. These plans support the Asset Management Strategy in forecasting community requirements and the capacity to meet them on a short -, medium -, and long-term basis.
- **Long-Term Financial Planning:** The Long-Term Financial Plan (LTFP) tests community aspirations as contained in the Community Plan against the financial realities of the delivering on those aspirations. The LTFP integrated with Hay Shire 2022-2032 CSP through the Delivery Program and one-year Operational Plan.
- **Workforce Management Planning:** The Workforce Management Plan addresses the human resourcing requirements of the Community Strategic Plan, including what people, skills, experience and expertise are required to achieve its strategic objectives.

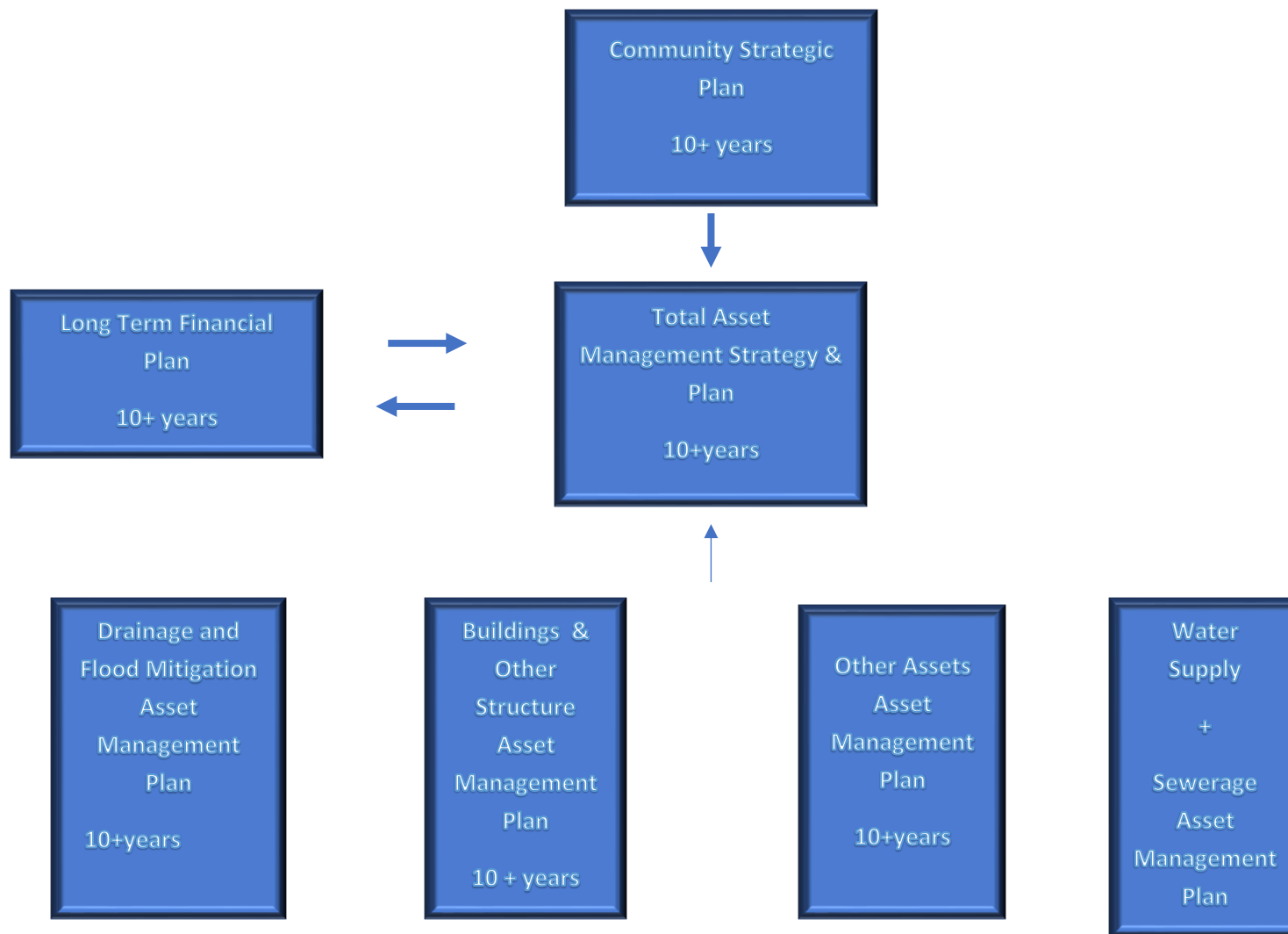
This AMP is prepared under the above hierarchy and direction of Council’s mission, values goals and objectives.



## Relationship to Other Asset Related Council Documents

This AMP aligns and should be read in conjunction with framework of Council documents as shown below:

### Asset Management Document Hierarchy



The table 5: below shows the key documents that support this AMP

Document	How Related	Reference
AMP Related Documents		
Asset Management Policy	<p>The Asset Management Policy includes the defining principles of asset management within Council. This AMP supports such as by</p> <ul style="list-style-type: none"> <li>• Considering the entire life cycle of the assets</li> <li>• Supporting the development of cost-effective management strategies for the long term</li> <li>• Providing a defined level of service which can be monitored and used as the basis for aligning affordability with community aspirations</li> <li>• Understanding and meeting the demands of growth through demand management and asset investments.</li> <li>• Managing risk associated with the assets: and</li> <li>• Defining actions required to support continuous improvement in asset management practices.</li> </ul>	
Condition Assessment Plan	Contains the methodologies, defect assessment procedures, and the condition rating system used to formally assess the structural integrity and appearance of assets.	
Service Level Agreement (including Maintenance Specifications)	Contains all maintenance and operational specification requirements for assets under this AMP.	
Risk Registers	Contains all identified asset related risks applicable to this AMP.	
Maintenance Manual	Contains design and construction details for new assets.	
Other Related Documents		
Land Development Guidelines	Contains design and construction details for new assets	Council Website
Others....		
External/Specialist Reports	Catchment Analysis, etc.	

## Stakeholder Input

Various stakeholders were considered in the preparation of this AMP who will have different roles in implementing its outcomes. These stakeholders and their role are shown in Table 5.

Table 6: Key Stakeholders

Key Stakeholder	Role
Councillors	<ul style="list-style-type: none"> <li>• Represent needs of community.</li> <li>• Allocate resources to meet Council's objectives in providing services while managing risks.</li> <li>• Ensure the organisation is financially sustainable</li> <li>• Custodians of the assets and services, providing the interface with the community regarding the levels of service, good governance, and management practices.</li> </ul>
General Manager	<ul style="list-style-type: none"> <li>• Manager organisation operational activities and future planning strategic direction.</li> </ul>
Director Corporate & Community	<ul style="list-style-type: none"> <li>• Long-Term Financial Plans and operational financial data</li> <li>• Defining information requirements for audit and reporting purposes</li> </ul>
Director Corporate & Planning	<ul style="list-style-type: none"> <li>• Manage delivery of the AMP and initiative.</li> <li>• Capital works projects planning and deliver.</li> <li>• Operational and service levels, data information and analysis.</li> </ul>
Community and Ratepayers	<ul style="list-style-type: none"> <li>• User of services</li> <li>• Source of funding</li> </ul>
State and Commonwealth Government	<ul style="list-style-type: none"> <li>• Active in the management of assets and services across the region.</li> </ul>
Council Staff	<ul style="list-style-type: none"> <li>• Directly involved with the renewal, maintenance and operation of the net work and the management framework, both operationally and financially.</li> <li>• Delivery of operations plans informed by this AMP.</li> </ul>
Emergency Services	<ul style="list-style-type: none"> <li>• Respond to community needs and emergency situations.</li> </ul>

## Legislative Requirements

Council is required to meet many legislative requirements including Federal and State legislation and regulations. Key relevant legislation is shown in Table 7.

Table 7: Legislative Requirements

Legislation	Requirement
Local Government Act NSW (1993)	<p><b>8B Principles of sound financial management</b> The following principles of sound financial management apply to councils:</p> <p>(c) Councils should have effective financial and asset management, including sound policies and processes for the following:</p> <ul style="list-style-type: none"> <li>(i) Performance management and reporting,</li> <li>(ii) Asset maintenance and enhancement</li> </ul> <p><b>403 Resourcing strategy</b> (1) A Council must have a long-term strategy (called its <b>"resourcing strategy"</b>) for the provision of the resources</p>



	required to implement the strategies established by the community Strategic Plan that the Council is responsible for. (2) The resourcing strategy is to include long-term financial planning, workforce management planning and asset management planning.
Roads Act 1993	Sets out the rights for the use of public roads, confers certain road related functions on road authorities and regulated the carrying out of various activities.
Work Health and Safety Act 2011	Sets out an employee's obligations to provide a safe work environment for all users, including processes and documents.
Environment Planning & Assessment Act 1979	Encourages the proper management, development and conservation of natural and artificial resources, for the purpose of promoting the social and economic welfare of the community and better environment.
Civil Liability Amendment Personal Responsibility Act 2002	Sets out a road authority's responsibility in the development and implementation of appropriate inspection and maintenance programs subject to the availability of financial and other resources.
Native Vegetation Act	The responsibilities and powers of Council in providing protection for native vegetation.
Australian Accounting Standards	AASB116, AASB1031 Accounting rules setting out Council requirements for maintaining accounting standards and the financial reporting of assets.

This Drainage and Flood Mitigation AMP contributes to supporting Council's legislative requirements.

## Plan Maturity

This AMP is targeted at a first cut, 'core-level' AMP as defined in the International Infrastructure Management Manual. Detailed information is in Table 8 below.

Core level AMP's are developed to meet minimum legislative and organisational requirements and provide basic technical management outputs, including:

- Statements on current levels or aspirational levels of service
- Forward asset flow programs
- Associated cash flow

Table 8: Core Level Asset Management Capabilities

AM Category	Core Assessment requirements
Asset Management Plans	<ul style="list-style-type: none"> <li>• Plan contains basic information on assets, service levels, planned works, and financial forecasts (5-10years) and future improvements.</li> <li>• The plan also includes executive summary, description of services and key/critical assets, top-down condition and performance description of supporting AM processes, 10-year financial forecasts, and 3-year AM improvements plan.</li> </ul>

Other "Core" Assessment requirements that can be included in the AMP include the following:

Risk Management	<ul style="list-style-type: none"> <li>• Risk framework developed</li> <li>• Critical assets and high risks identified</li> </ul>
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	<ul style="list-style-type: none"> <li>• Documented risk management strategies for critical assets and high risks</li> </ul>
Quality Management	<ul style="list-style-type: none"> <li>• Defined quality policy and basic Quality Management System</li> <li>• All critical activity processes documented.</li> </ul>
Levels of Service and Performance Management	<ul style="list-style-type: none"> <li>• Customer groups defined, and requirements informally understood.</li> <li>• Levels of service and performance measures in place covering a range of service attributes.</li> <li>• Annual reporting against performance targets.</li> </ul>
Demand Forecasting	<ul style="list-style-type: none"> <li>• Demand forecasts based on robust projection of a primary demand factor (e.g. population growth) and extrapolation of historic trends.</li> <li>• Risk associated with demand change broadly understood and documented.</li> <li>• Demand management is considered in major asset planning.</li> </ul>
Operating Planning	<ul style="list-style-type: none"> <li>• Emergency response plan is developed</li> <li>• Asset utilisation is measured for critical asset groups and its routinely analysed.</li> </ul>
Maintenance Planning	<ul style="list-style-type: none"> <li>• Asset critically considered in response processes.</li> <li>• Fault tracking and closure process</li> <li>• Strategy for prescriptive versus performance-based maintenance developed.</li> <li>• Key maintenance objective established and measured.</li> </ul>
Capital Works Planning	<ul style="list-style-type: none"> <li>• Projects have been collated from a wide range of sources such as hydraulic models, operational staff, and risk processes.</li> </ul>
Financial and Funding Strategies	<ul style="list-style-type: none"> <li>• 10+ year financial forecasts based on current AMP outputs.</li> <li>• Significant assumptions are specific and well-reasoned.</li> <li>• Expenditure captured at a level useful for AM analysis.</li> </ul>
Asset Register Data	<ul style="list-style-type: none"> <li>• Sufficient information to complete asset valuation – basic physical information recorded in a spreadsheet or similar (e.g location, size, type) but may be based on broad assumptions or not complete.</li> <li>• Replacement costs and asset age/life.</li> <li>• Asset hierarchy, asset identification and asset attribute system documented.</li> </ul>
Asset Condition	<ul style="list-style-type: none"> <li>• Condition assessment programme in place for major asset types, prioritised based on assets risk.</li> <li>• Data supports asset life assessment</li> <li>• Data management standards and processes documented</li> <li>• Programme for data improvement developed.</li> </ul>
Information Systems	<ul style="list-style-type: none"> <li>• Asset registered enables hierarchical reporting (at component to facility level).</li> <li>• Customer request tracking and planned maintenance functionally enabled</li> <li>• System enables manual reports to be generated for valuation, renewal forecasting.</li> </ul>
Service Delivery Mechanisms	<ul style="list-style-type: none"> <li>• Service delivery roles clearly allocated (internal and external), with contracts in place for external service provision.</li> </ul>

## Existing Infrastructure Base

The section provides an overview of the infrastructure assets covered by this AMP. The overview provides an understanding of the age, value, and condition of Council's existing infrastructure asset base.

## Asset Summary

A summary of the Drainage and Flood Mitigation Assets covered by the AMP are included in table 9.

Table 9: Asset Summary

Asset type	Replacement Value
Rural Culvert	\$5,484,380
Stormwater Pipe	\$11,022,350
Stormwater Pit	\$2,757,704
Urban Culvert	\$67,652
Flood Levee Systems	\$0
Total	\$19,332,086

## Residual Value and Useful Life

“Residual Value is defined as – the estimated amount that an entity would currently obtain from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its life”

Except for where assets are typically traded in an open market it has been assumed that the Residual Value is nil. It should be noted that Useful life is not used as a primary input to the calculation of the Fair Value. However, it is a critical assumption used to determine Depreciation Expense. Useful life is determined using professional judgement and is usually determined after given consideration to the past experiences of the entity as well as to potential outcomes flowing from improved asset management strategies.

## Asset Hierarchy and Useful Life

An asset's useful life is the period over which a depreciable asset is expected to be fully consumed. This period can be significantly impacted by Council's maintenance practices.

The useful life of an asset is initially based on the manufacturer's recommended (expected) life. This is subject to change however, based on historical evidence of the impact of the local environment on the expected life.

The hierarchy and useful lives of Council's assets are provided in Table 10.

Table 10: Asset Lives and Hierarchy

Asset type	Component	Recorded Standard Life (years)
Conduit	Box Culvert	70
	Gravity Main	80
		90
		100
	Pipe Culvert	70
	Rising Main	90
	Subsoil	100

GPT	Letter	130
	Oil and Grease	120
Inlet/Outlet	Floodgate	130
	Wing Wall	100
Kerb & Gutter	Barrier	60
	Dish Drain	60
	Dissipator	60
	Kerb Only	60
Lagoon	Lagoon	150
	Retention Basin	150
Levee	Box Culvert	130
	Concrete	150
		160
	Crib Wall	140
		160
	Earthen Bank	150
		160
	Floodgate	130
	Pipe Culvert	130
	Weir	120
		130
	Wing	130
Open Drain	Concrete Lined	100
	Earthen Bank	100
Other	Pump	120
		140
Pit	Junction Side Entry	90
		90

Table 11: Stormwater Data

Asset Type	Asset Sub-Type	Component	Component Type	Component Sub-Type	Short-Life				Long-Life			#Total
					Prop %	RV	UL Min	UL Max	Prop %	RV	UL	
Rural Culvert	DICL	DICL	1800	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCBC	RCBC	1200X1200	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCBC	RCBC	300X1500	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCBC	RCBC	450X300	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	4
Rural Culvert	RCP	RCP	1050	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	12
Rural Culvert	RCP	RCP	1200	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	12
Rural Culvert	RCP	RCP	1500	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCP	RCP	1650	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCP	RCP	1800	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	2
Rural Culvert	RCP	RCP	300	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	14

Rural Culvert	RCP	RCP	375	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	31
Rural Culvert	RCP	RCP	450	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	498
Rural Culvert	RCP	RCP	450/375	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCP	RCP	525	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	31
Rural Culvert	RCP	RCP	600	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	90
Rural Culvert	RCP	RCP	675	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCP	RCP	750	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	18
Rural Culvert	RCP	RCP	759	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Rural Culvert	RCP	RCP	900	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	40
Rural Culvert	RCP	RCP	Unknwn	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	43
Rural Culvert	Steel	Steel	900	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Stormwater Pipe	<1m	<1m	Conc <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	33
Stormwater Pipe	<1m	<1m	Conc 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	131
Stormwater Pipe	<1m	<1m	Conc 375	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	153
Stormwater Pipe	<1m	<1m	Conc 450	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	44
Stormwater Pipe	<1m	<1m	Conc 600	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	10
Stormwater Pipe	<1m	<1m	Conc 750	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	9
Stormwater Pipe	<1m	<1m	FC <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	28
Stormwater Pipe	<1m	<1m	FC 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	8
Stormwater Pipe	<1m	<1m	FC 375	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	3
Stormwater Pipe	<1m	<1m	FC 450	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	1
Stormwater Pipe	<1m	<1m	PVC <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	153
Stormwater Pipe	<1m	<1m	PVC 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	0.00	4

Asset Type	Asset Sub-Type	Component	Component Type	Component Sub-Type	Short-Life				Long-Life		
					Prop %	RV	UL Min	UL Max	Prop %	RV	U
Stormwater Pipe	>3m	>3m	Conc 450	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	>3m	>3m	Conc 525	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	>3m	>3m	Conc 600	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	Conc <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	Conc 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	

Stormwater Pipe	1m-2m	1m-2m	Conc 375	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	Conc 450	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	Conc 525	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	Conc 600	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	Conc 750	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	FC <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	FC 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	FC 375	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	PVC <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	PVC 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	1m-2m	1m-2m	PVC 450	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	Conc 1050	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	Conc 375	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	Conc 450	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	Conc 600	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	Conc 750	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	PVC <300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pipe	2m-3m	2m-3m	PVC 300	Standard Cost - Standard Life	100.00	0.00	80.00	120.00	0.00	0.00	
Stormwater Pit	<1m	<1m	GIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	<1m	<1m	GKIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	<1m	<1m	JP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	<1m	<1m	KIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	<1m	<1m	Spec	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	<1m	<1m	Unknown	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	>3m	>3m	GKIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	>3m	>3m	KIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	>3m	>3m	Spec	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	1050	1050	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	
Stormwater Pit	1m-2m	1m-2m	GIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	

Asset Type	Asset Sub-Type	Component	Component Type	Component Sub-Type	Short-Life				Long-Life			#Total
					Prop %	RV	UL Min	UL Max	Prop %	RV	UL	
Stormwater Pit	1m-2m	1m-2m	GKIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	93
Stormwater Pit	1m-2m	1m-2m	JP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	30

Stormwater Pit	1m-2m	1m-2m	KIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	188
Stormwater Pit	1m-2m	1m-2m	Spec	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	3
Stormwater Pit	2m-3m	2m-3m	GKIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	7
Stormwater Pit	2m-3m	2m-3m	JP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	3
Stormwater Pit	2m-3m	2m-3m	KIP	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	19
Stormwater Pit	2m-3m	2m-3m	Spec	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	5
Stormwater Pit	300	300	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	6
Stormwater Pit	375	375	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	12
Stormwater Pit	450	450	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	14
Stormwater Pit	525	525	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	2
Stormwater Pit	600	600	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	8
Stormwater Pit	750	750	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	2
Stormwater Pit	Unknown	Unknown	H'wall	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	3
Stormwater Pit	Unknown	Unknown	Unknown	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	18
Urban Culvert	Poly	Poly	300	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1
Urban Culvert	RCBC	RCBC	600X300	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	2
Urban Culvert	RCP	RCP	300	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	3
Urban Culvert	RCP	RCP	450	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	5
Urban Culvert	RCP	RCP	525	Standard Cost - Standard Life	100.00	0.00	60.00	100.00	0.00	0.00	0.00	1

## Asset Condition

Council has adopted a condition assessment method using a 5-point scale rating, varying from 'Very Good' to 'Very Poor' condition as can be seen in Table 12 below.

Table 12: Condition Assessment

Grade	Condition	% Remaining Useful Life	Description
1	Very Good	>70%	Sound physical condition. No signs of deterioration Only normal maintenance required
2	Good	70%->50%	Acceptable physical condition; minor deterioration visible, no short-term failure risk. Minor defects only. Only minor work required, if any.
3	Fair	50%->10%	Acceptable physical condition ; minimal short-term failure risk but potential for deterioration in long-term. Minor defects only. Minor components or isolated sections of the asset may need replacement or repair now but asset functions safely at adequate level of service. Work may be required but asset is serviceable. Maintenance required to restore the asset to an acceptable level of service.



4	Poor	10%-4%	Significant deterioration evident. Failure likely in short-term. Likely need to replace most or all of the asset. No immediate risk to health or safety work required in short-term, asset barely serviceable. Asset requires renewal – works to be programmed.
5	Very Poor	<4%	Failed or failure imminent. Immediate need to replace most or the entire asset. Health and safety hazards exist which present a possible risk to public safety, or asset cannot be serviced/operated without risk to personnel. Asset is effectively unserviceable. Major work or replacement required urgently.

The majority 82% of the DFM assets are in good condition and do not require any attention other than routine maintenance. However, Council's asset data indicates that 1.4% (\$285K) are in very poor condition and are failing or have failed.

### Assets Criticality

A critical asset is an asset for which the financial, business or service level consequences of failure are sufficiently severe to justify proactive inspection and rehabilitation. Critical assets have a lower threshold for action than non-critical assets.

Although critical assets have a high consequence of failure, they don't necessarily have a high likelihood of failure.

Asset Criticality is a measure of how critical an asset is to the functioning of and/or the services provided by Council.

The importance or degree of asset critically has been proposed to be based on the consequences of failure i.e. consequences of failure are assigned a criticality factor.

Elements that may impact on asset criticality include:

- Safety
- Cost of Failure
- Complexity
- Severity of Duty
- Impact of failure
- Impact on Environment
- Location
- Loss of Service
- Number of Customers Serviced
- Site function
- Public image impact

Social, environmental & economic factors may be considered.

Social may include

- Community disruption
- Health and safety
- Litigation

Environment factors that may need to be considered are

- Natural waterways
- Parks
- National parks
- Recreational grounds

Economic

- Business and commercial activities being disrupted
- Costs to the community

Criticality has been assigned using the rating in

Table 13: Criticality Rating - To be assessed

Criticality Rating				
1	2	3	4	5
Insignificant	Minor	Moderate	Major	Extreme

## Data Confidence

Council Asset valuations and Condition assessment have been subject to rigorous program where assets were individually inspected and assessed. Subsequently council has a high degree of confidence in the data.

## Levels of Service

### Level of Service Documents Hierarchy

- Hay Shire 2022-2032 CSP  
The Community Strategy establishes, through community consultation, Council's aspirational goals and objectives for the delivery of Drainage and Flood Mitigation services.
- Asset Management Plan  
This asset Management Plan (AMP) develops technical measures against which the aspirational goals and objectives can be measured (Technical Levels of Service).
- Delivery Plan  
The Delivery Plan (DP) allocated those responsible for the assets and the services they deliver, and the operational areas of Council charged with maintaining, operating, and upgrading existing assets or construction new infrastructure.
- Activity Specification  
The activity specification defines the target performance measures for maintenance, operations, or construction activities. It sets routine inspection and maintenance frequencies and for reactive maintenance sets intervention levels, response times, activity duration targets.

- Maintenance Management Plan

The Maintenance Management Plan (MMP) details how each activity is to be completed and may include the following:

- Standard Operating Procedures
- Work Instructions
- Hazards Risk Assessment
- Reference to Equipment Maintenance Manuals (particularly fleet, plant, mechanical and electrical assets)

## Community Strategy 2022-2032 (Community Levels of Service)

The Community Strategy relevant to this AMP is:-

Outcome 5: Our Infrastructure – Sustainable infrastructure provision that is adaptive to changing and funding levels.

Table 14: Council's Goals

Council Role
<ul style="list-style-type: none"> <li>• Undertake sound asset management planning and asset mapping.</li> <li>• Where appropriate, upgrade existing or provide new infrastructure.</li> </ul>

In addition to Council's Drainage and Flood Mitigation aspirational goal and roles as detailed in Table 14 above, the Community Levels of Service relate to subjective service delivery outcomes that the community wants in terms of safety, quality, reliability, responsiveness, value and legislative compliance.

Community levels of service measures used in this service management plan are:

- Quality – How good is the service?
- Function – Does it meet users' needs?
- Capacity/Utilisation – Is the service over or under use?

These community levels of service promised by Council are outlined in Table 15.

Table 15: Community Levels of Service

Service Level Outcome	Principle Activity	Strategic Elements	Performance Outcome	Assessed By
Reliability	Drainage and Flood Mitigation doesn't impact other services	Unobtrusive	No disruptions from Drainage and Flood Mitigation network	Number of interruptions/years
Quality	Good value Drainage and flood Mitigation Services No Odours	Stormwater collection, transport and treatment remains affordable	Agreed level of service delivered within budget allocations while maintaining an acceptable level of risk and asset life expectations. Cost of Drainage and Flood Mitigation services does not increase more than inflation.	Quantitative cost assessment
Function	Provide an effective method of collection and disposal of wastewater. No backup of sewerage into properties. No overflows of sewage into public places/waterways. Drainage and Flood Mitigation re-use.	Drainage and Flood Mitigation system functions as designed. Water re-use from treatment plants is optimised. Drainage and Flood Mitigation network doesn't impact the environment.	Water re-use from treatment plant is optimised. Sewage treatment meets all relevant environment guidelines.	Water quality testing Environment impact assessment
Condition	Drainage and Flood Mitigation network is maintained in good condition	The condition of the Drainage and Flood Mitigation Assets is regularly assessed.	Condition rating for the Drainage and Flood Mitigation Network Assets.	Movement in the assessed condition of the assets % of renewal programs delivered.
Capacity & Utilisation	Provides adequate population capacity	Network has sufficient capacity to meet community expectations	The capacity of the Drainage and Flood Mitigation network will have capacity to meet population growth expectations.	% of Drainage and Flood Mitigation network by value that has poor or very poor capacity or utilisation Capacity with criteria set out in technical service levels for various.

## Technical Levels of Service

Technical levels of service support the community levels of service by turning subjective requirements of the Community Levels of Service into objective assessments. These technical measures aim to quality the performance of the assets and service they provide and relate to the allocation of resources to services activities that the organisation undertakes to best achieve the desired community outcomes and demonstrates effective organisational performance.

Technical service measures are linked to annual budgets covering:

- Operations – the regular activities to provide services such as opening hours, cleansing frequency, mowing frequency, etc.
- Maintenance – the activities necessary to retain an asset near as practicable to an appropriate service condition (e.g., road patching, unsealed road grading, building and structure repairs)
- Renewal – the activities that return the service capability of an asset to that which it has originally (e.g frequency and cost of road resurfacing and pavement reconstruction, pipeline replacement and building component replacement)
- Upgrade – the activities to provide a higher level of service (e.g widening a road, sealing tan unsealed road, replacing a pipeline with a larger size) or
- New – a new service that did not exist previously (e.g., a new library).

Asset managers plan, implement and control technical service levels to influence the community service levels. <sup>1</sup>

These technical Levels of Service are outlined in Table 16 by asset classification

Table 16: Technical Levels of Service

Asset Class	Drainage and Flood Mitigation		
Service Statement	Council effective improvement of stormwater transport, treatment and disposal with minimal environment impact.		
Performance Measure	Number of complaints per annum		
Service Factors	Community Levels of Service	Technical Level of Service	Performance Measures
Quality			
Effective Drainage and Flood Mitigation transport and treatment	An unobtrusive service	No nuisance from sewage services Operations Maintenance <ul style="list-style-type: none"><li>Inspect assets on a routine basis to identify their condition</li><li>Inspect asset on a routine basis to identify and address any defect and safety concerns</li><li>Maintain assets in a tidy, safe and functional condition</li></ul>	100% of Activities identified in the SLA met 30% of Asset Base condition assessed annually. Defect inspect 90% of Drainage and Flood Mitigation Assets. <1 complaint/ month.
		Renewal <ul style="list-style-type: none"><li>Renew/replace components when they no longer function. reseal/rehabilitation.</li><li>Renew/replace assets when they degrade to a dangerous level.</li></ul>	Average network condition remains constant of or improves.  90% delivery of renewal programs
Function			
Environmental Compliance Affordability and whole of life management.	Drainage and Flood Mitigation treatment meets all relevant environment guidelines. Drainage and Flood Mitigation collection, transport and treatment remain affordable.	New/Upgrade <ul style="list-style-type: none"><li>Provide new/upgrade infrastructure to cater for community growth in accordance with community demand.</li><li>Provide new/upgraded infrastructure as required to comply and constructed in accordance with industry standards or statutory requirements.</li></ul>	90% delivery of CAPEX programs. 100% Compliance with design standards and guidelines. 5> complaints/annum

		<ul style="list-style-type: none"> <li>• Ensure new/upgrade infrastructure is designed and constructed in accordance with Council's Guidelines.</li> </ul>	
Capacity /Utilisation			
Stormwater re-use	Water re-use is optimised	New/upgraded <ul style="list-style-type: none"> <li>• Ensure new/upgrade infrastructure is designed and constructed in accordance with Council's Guidelines</li> </ul>	100% Compliance with design standards and guidelines Customer surveys. Promote water reuse.



## Demand

Factors affecting demand include population change, changes in demographics, seasonal factors, vehicle ownership, consumer preferences and expectations, economic factors, agricultural practices and environmental.

Specific to Council, the demand factor that may impact on service delivery are summarised in Table 17.

Table 17: Demand Impact

Demand Driver	Current Position	Projected Position	Potential Impact	Response Required
Community Growth	2946 residents	<ul style="list-style-type: none"> <li>No current prediction available</li> </ul>	Population growth will result in an increase in asset use and have an impact on lifecycle cost if the assets.	There is not enough growth to have a significant impact on services.
Demographic	Median age 45	<ul style="list-style-type: none"> <li>No current prediction available</li> </ul>	Increases in the median age increases the importance for service accessibility.	The average population being relatively young will increase the need for community Drainage and Flood Mitigation infrastructure.
Tourism	Tourism and related industries account for 16.6% of the total employed in the Council area.	<ul style="list-style-type: none"> <li>No current prediction available</li> </ul>	An increase in visitors to the area will have a larger effect on infrastructure services	Council will not have to increase size of the asset base specially for tourism increases

(\*Australian Bureau of statistics – Hay Shire Council)

## Growth/Demand Response

Demand for new services will be managed through a combination of managing existing assets, upgrading of existing assets and providing new assets to meet demand and demand management. Demand management practices include non-asset solutions, insuring against risks and managing failures.

Non-asset solutions focus on providing the required service without the need for Council to own the assets and management actions including reducing demand for the service, reducing the level of service (allowing some assets to deteriorate beyond current service levels) or education customers to accept appropriate assets failures.

Opportunities for demand will be developed in future revisions of this asset management plan.

Council's current adopted growth rate is 1% per annum. There is existing capacity in the Drainage and Flood Mitigation network to cater for this level of growth for the foreseeable future.

## Risk Management

### Risk Management Objectives

Council has a 'duty of care' to the community in relation to management of the assets and appropriate management of risk. Council must reduce risk where it is reasonable to do so. Risks that affect Council include:

- Risks associated with the loss of service by the failure of critical assets
- Financial risks from a lack of due diligence in the management of funding for the renewal, maintenance, and operation and management outputs.

The objectives to be achieved in managing risks under the AMP are:

- Identify high risk assets
- Maintain Levels of Service
- Mitigate risks to the public
- Reduce the number and magnitude of unplanned asset failures.

Managing risks involves identifying, assessing and determining risk management option.

Risk options vary depending on several factors, including but not limited to:

- Available resources and funding
- Risk assessment level and
- Network demand

In this way, it may be reasonable to mitigate a lower risk when it is not practical to mitigate a high risk.

For each identified risk Council can elect to adopt one of the following positions:

- Take the risk
- Transfer the risk
- Treat the risk
- Terminate the risk

### Risk Assessment Method

Risks vary on both likelihood and consequence. Analysing risks in a risk matrix can help to quantify the risk to then identify necessary treatment actions. The risk matrix used to assess Council's risk is shown below.

LIKELIHOOD		CONSEQUENCES				
		1	2	3	4	5
		Negligible	Minor	Moderate	Major	Catastrophic
Likelihood	A. Rare	Low	Low	Low	Moderate	High
	B. Unlikely	Low	Low	Moderate	High	High
	C. Possible	Low	Moderate	Moderate	High	Extreme
	D. Likely	Moderate	Moderate	High	Extreme	Extreme
	E. Almost Certain	Moderate	High	High	Extreme	Extreme

Risk Assessment	Treatment Options
Low(L)	Acceptable Risk <ul style="list-style-type: none"> <li>Unlikely to require specific application of resources</li> <li>Manage by routine procedures</li> <li>Monitor, review and react</li> </ul>
Moderate (M)	Acceptable Risk <ul style="list-style-type: none"> <li>Unlikely to cause much damage and/or threaten the efficiency and effectiveness of the activity</li> <li>Treatment plans to be developed and implemented by operational managers.</li> <li>Manage by specific monitoring or response procedures</li> </ul>
High Risk (H)	Generally unacceptable <ul style="list-style-type: none"> <li>Likely to cause some damage, disruption, or breach of controls</li> <li>Senior management attention needed, and management responsibility specified</li> <li>Treatment plans to be developed and reported to executives</li> </ul>
Extreme (E)	Not acceptable <ul style="list-style-type: none"> <li>Likely to threaten the survival or continued effective function of the organisation, either financially or politically</li> <li>Must be managed by senior management with detailed treatment plan in place</li> <li>Immediate action required.</li> </ul>

## Risk Analysis - Asset Failure

To be assessed

## Rick Analysis – Operational Activities

Table 18: Drainage and Flood Mitigation Operational Risk Assessment

Asset at Risk	Risk ID	Critical Incident	Cause	Likelihood	Consequences	Rating
Flood Mitigation and Drainage	S1	Failure to detect conduit failure causing leak	Reduced Asset inspection programs	Unlikely	Major	High
Flood Mitigation and Drainage	S2	Poor Quality Assets provided or constructed	Failure to comply with Council's guidelines	Rare	Major	Moderate

## Operational Risk Report

The risk report resulting from the assessment is included as Table 19 below.

Table 19: report resulting from the assessment

ID	Risk Description	Risk Assessment	Action	Proposed Treatment Options	Estimated Cost	Target Risk Result
S1	Assets are being acquired or created and recorded in the asset register. The information recorded is not appropriate (e.g. Asset Name: "Capital works")	High	Treat	Improve processes and procedure documentation train staff. Improve data recording of Ops & Main. Exp. Improve asset data recording, capitalisation and management	\$TBA	Moderate
S2	Annual works programs are not being delivered (Plan, design and conduct within a single year)	High	Treat	Amend budget to include forward planning and forward Design allocations.	Nil	Moderate

TBA (To Be Assessed) are reactive in nature and will be addresses when the issue arises.

## Long Term Funding

The available funding is based on financial data in the LTFP. The Capital expenditure has also been extracted from Council's LTFP. There is no clear separation between maintenance and operational costs in Council's financial planning which is an area for improvement.

### Long -Term Financial Plan Summary

The LTFP funding available for operations, maintenance and CAPEX (new, upgrade, renewals) projects is shown in table 20.

Table 20: LTFP funding available for operations

Financial Year Ending	Operations & Maintenance	Renewals	Total
2022/23	\$55,000	\$67,000	\$122,000
2023/24	\$56,375	\$6,000	\$116,375
2024/25	\$57,784	\$55,000	\$112,784
2025/26	\$59,229	\$50,000	\$109,229
2026/27	\$60,710	\$45,500	\$106,210
2027/28	\$62,227	\$40,000	\$102,227
2028/29	\$63,783	\$45,000	\$108,783
2029/30	\$65,378	\$40,000	\$105,378
2030/31	\$67,012	\$50,000	\$117,012
2031/32	\$68,688	\$40,000	\$108,688
<i>Total</i>	<i>\$616,186</i>	<i>\$492,500</i>	<i>\$1,108,686</i>

This has been verified as underestimated with the assistance of Cumberland City Council asset team, confirming LTFP allocation required is \$3,998,780 (Operations/maintenance - \$67,264 per annum and 10-year asset renewal of \$3,326,140). Further analysis and inspections are required to achieve a higher level of confidence in these figures.

## Operations & Maintenance

Operations and Maintenance activities relate to the day to day running and upkeep of assets, the costs of which are particularly significant for dynamic/short-lived assets.

Operations expenditure is recurrent expenditure, which is continuously required to provide a service. In common use the term typically includes, e.g. power, fuel, plant equipment, street sweeping, mowing, on-costs and overheads but excludes maintenance and depreciation.

Maintenance activities are those necessary for retaining an asset as near as practicable to its original condition, including regular ongoing day-to-day work necessary to keep assets functioning and in good repair. It is operating expenditure required to ensure that the asset reaches its expected useful life.

### Operations & Maintenance Program

Currently maintenance is managed based on historical information and trends. The maintenance service objectives are to:

- Maintain Council's infrastructure in a safe, serviceable and aesthetic condition to the satisfaction of Council and the community;

- Maintain and preserve the functionality and value of the existing assets;
- To provide and maintain a safe environment of the community within the constraints of Council's financial capacity and resource capability, while displaying a reasonable 'duty of care'; and
- Ensure the provision of a high standard of customer service and that customer requests are responded to quickly efficiently.

Council's future operations and maintenance expenditure is based on last financial year's financial statements. This data only provided very limited granularity and insight into the operations and maintenance work it represents. The operations and maintenance expenditure are not broken down into specific task. From this data it is not possible to assess whether the level of operations and maintenance being conducted is appropriate or how it will change over the planning period.

The projected operations and maintenance expenditure can be seen in Table 21

Table 21: Forecast Operations and Maintenance expenditure

Financial Year Ending	Operations/Maintenance
2022/23	\$55,000
2023/24	\$56,375
2024/25	\$57,784
2025/26	\$59,229
2026/27	\$60,710
2027/28	\$62,227
2028/29	\$63,783
2029/30	\$65,378
2030/31	\$67,012
2031/32	\$68,688
<i>Totals</i>	<i>\$616,186</i>

The annualised expenditure on operations and maintenance activities for the next 10 years is \$62k per annum

This has been verified as underestimated with the assistance of Cumberland City Council asset team, confirming LTFP allocation required is \$3,998,780 (Operations/maintenance - \$67,264 per annum and 10-year asset renewal of \$3,326,140). Further analysis and inspections are required to achieve a higher level of confidence in these figures.

## Maintenance Expenditure Ratio

A high order assessment of the maintenance ratio expenditure shows a low confidence in the annual expenditure. This needs to be further assessed through inspections and analysis.

## Depreciation Expense Levels

The total Annual Depreciation of stormwater assets excluding rural culverts for the next 10 years is \$2,236,000.

The current level of renewals excluding rural culverts is less than 25% of this figure.

## Renewals Planning

Renewal expenditure does not increase the assets design capacity but restores, rehabilitates or renews existing asset to its original or lesser required service level.

The renewal expenditure \$492K in the LTTP is based on historical figures and has not been subject to a rigorous evaluation.

Analysis by Cumberland City Council shows a renewal budget over the life of the LTTP of \$3,326,140, or \$332,614 per annum. Current levels of renewal is \$49,250. This will result in the deterioration of the stormwater assets if the financial commitment is not increased.

## New and Upgrade

New and Upgrade expenditure is for the provision of, or improvement to, an asset where the outlay can reasonably be expected to provide benefits beyond the year of outlay, including a value management approach that aims to produce the most economic and creative solutions.

## New/Upgrade Prioritisation Approach

The considerations taken into account when prioritising new/upgrade Projects. The discussion may include some example criteria as documented below:

- New/upgrade projects that involved legislative drivers were prioritised over others that did not, to ensure compliance with statutory requirements.
- Once the legislation assessment was completed, projects were assessed against alignment with approved Council plans, policies, and strategies. This was essential to ensure projects were not being developed outside the scope of strategic Council documents.
- A risk assessment was undertaken, to identify projects with higher risk. This was necessary to identify the consequences and impacts if projects were not undertaken. Projects identified as higher risk were prioritised over those with a lower risk.
- An assessment of community growth and demand based on technical levels of service within the Council area was undertaken. This highlighted that projects associated with growth areas such as the northern growth corridor warranted being prioritised over those not located in such an area.
- For projects concerning the upgrade of existing assets, these were given priority over new assets in order to maximise/enhance existing infrastructure before investing in new, additional assets.
- Include evidence of a value management approach taking into consideration the whole of Life costs of each project.

What is not considered in this Plan is the replacement/upgrade of the Flood Levees of Hay and Maude. Council is currently undertaking the Hay & Maude Floodplain Risk Management Study & Plan, when completed in mid-2024 will provide a high order cost estimate for the levee works required. This will also allow a determination of the contribution Council will need to make towards the levees.

## Disposal/Rationalisation

Council has undertaken a review of the configuration, type and location of Drainage and Flood Mitigation Assets and the service process relevant to the activity, when an asset becomes uneconomical to maintain or rehabilitate, or is no longer required.

There is currently no information regarding any assets that may have been disposed of. It has been assumed that all assets on the register are in use.



## Forecast Expenditure

### Financial Summary

The forecast expenditure to deliver the planned new/upgrade program, the condition renewal plan and sustain the current level of operations and maintenance is outlined in Table 22 below.

Table 22: 10-Year Forecast Expenditure

Financial Year Ending	Operations/Maintenance	Renewals	New Work	Total
2022/23	\$55,000	\$67,000	\$0	\$122,000
2023/24	\$56,375	\$60,000	\$0	\$116,375
2024/25	\$57,784	\$55,000	\$0	\$112,784
2025/26	\$59,229	\$50,000	\$0	\$109,229
2026/27	\$60,710	\$45,500	\$0	\$106,210
2027/28	\$62,227	\$40,000	\$0	\$102,227
2028/29	\$63,7836	\$45,000	\$0	\$108,783
2029/30	\$65,378	\$40,000	\$0	\$105,378
2030/31	\$67,012	\$50,000	\$0	\$117,012
2031/32	\$68,688	\$40,000	\$0	\$108,688
Total	\$616,186	\$492,500	\$0	\$1,108,686

The 10-year LTFP aligns with the planned works and the condition-based renewals programs.

A review with the assistance of Cumberland City Council has shown the total expenditure required over the life of the LTFP should be \$3,998,780 (Operations/maintenance - \$67,264 per annum and 10-year asset renewal of \$3,326,140); equating to \$393,404 per annum.

## Asset Values

The valuation is based on:

The valuation has been provided by an external contractor who undertook a rigorous program to formulate the values.

Table 23: Asset Valuations

Asset Class	Replacement Cost	Accumulated Depreciation	Fair Value	Annual Depreciation
Drainage and Flood Mitigation Assets	\$19,332,086	\$8,376,835	\$10,995,250	\$203,014

Note: this excludes the Hay and Maude levee systems.

## Performance Ratios and Sustainability

### Annual Ratios

The sustainability outputs are provided to demonstrate the trends that the currently anticipated expenditure will have on key measures. Capital Expenditure for 2021-2022 shown in Table 24.

Table 24: Capital Expenditure 2021-2022

Year	Capital Renewal Expenditure	Capital New/Upgrade Expenditure	Total Capital Expenditure
2022/23	\$67,000	\$0	\$67,000

Assessed asset renewal ratio is currently below what is considered satisfactory. Asset renewal plans need to be implemented that increase the renewal ratio towards 100% over the

### Renewals Program

This renewal requirement does not include any amount dedicated to a renewal project which upgrades or increases the level of service. Any additional amount for this is to be reported through the New and Upgraded Requirement within the New and Upgrade chapter of this AMP.

This plan provides an indicative program information for the renewal of the assets.

The renewal plan based on the condition and remaining life data held against each asset in the asset register has been prepared and is attached in [Appendix C – Renewal Plan](#).

Prior to the adoption of the renewal plan, a review of individual projects and the data held in the register will be validated by inspection and where discrepancies exist the Plan and the record data will be amended.

### Consumption Ratio

The consumption ratio provides a measure of the percentage of the asset base consumed to date and an indication of how fast the assets are being consumed each year and whether investment may require adjustment.

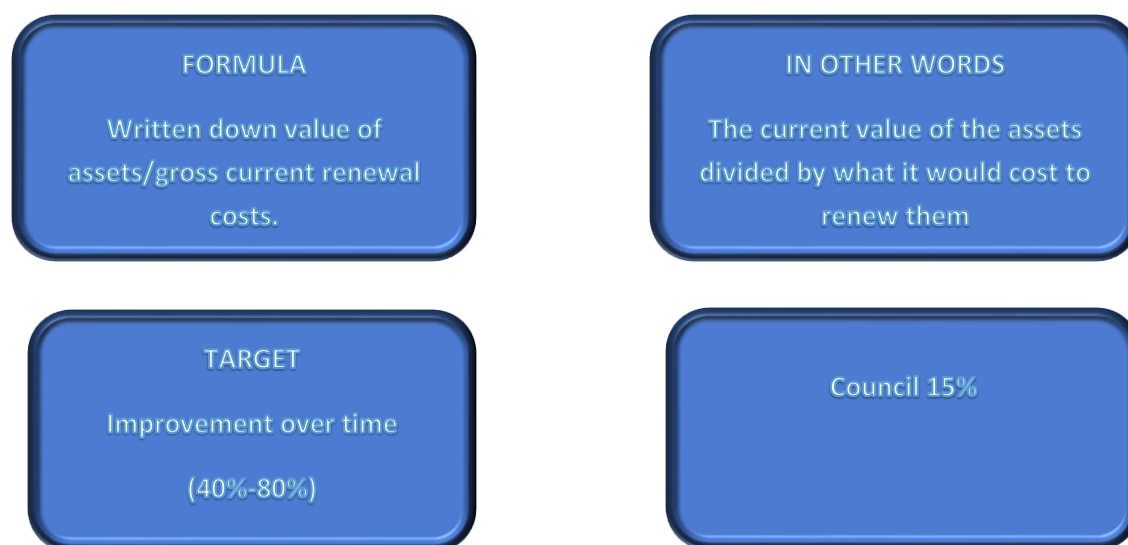


Table 24: Annual Asset Consumption

Annual Asset Consumption (Depreciation/Depreciable Amount)	1.05%
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The Annual Asset Renewal Ratio provides a measure of the rate of investment in renewals.

Table 25: Annual Asset Renewal

Annual Asset Renewal (Capital Renewal Expenditure/Depreciable Amount)	24%
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The current renewal expenditure is based on historical expenditure is based on historical expenditure which needs to be reviewed in terms of risk and adequacy.

The Annual New & Upgrade ratio provides an indication of the rate of growth of the asset base.

Table 26: Annual New & Upgrade Ratio

Annual New/Upgrade (Capital New & Upgrade/Depreciable Amount)	15%
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### Sustainability Ratio (Levels of Service)

Assessed sustainability ratio is currently not achieving the required 80%.

## Plan Improvement

### Performance Measures

The effectiveness of the asset management plan can be measured in various ways including:

- The degree to which the required cash flows identified in the development of the final plan are incorporated into Council's long-term financial plan and Community/Strategic Planning processes and documents.
- The degree to which 1–5-year detailed works programs, budgets, business plans and organisational structures take into account the 'global' works program trends provided by the asset management plan:
- The degree to which the exiting and projected services levels and service consequences (what we cannot do), risks and residual risks are incorporated into the Council's Strategic Plan Associated plans,
- The Asset Renewal Funding Ratio achieving the target of 1.0.

### Monitoring and Review Procedures

This plan will be reviewed during annual budget preparation and amended to recognise any material changed in service levels and/or resources available to provide those services as a result of the budget decision process.

This plan has a life of three years and is due for major review in 2024.

## Evaluation of findings

The Majority of the assets are in good condition with only a small minority in poor or very poor condition. However, based on the value of the assets and subsequent depreciation charge there is insufficient funds allocated in the

renewals program to maintain the service level for the long term. With the Flood Study to be completed over the next 24 months, Council is likely to have to make a significant financial commitment towards the levee system to implement the recommendations.

### Way Forward

- 1) Risk analysis be conducted on assets in relation to criticality and asset condition.
- 2) Proper evaluation of maintenance costs and requirements to formulate maintenance ratio.
- 3) Further development of asset inspection regime, condition analysis and asset management techniques.
- 4) Formulate asset renewal program-based on engineering requirements and risk.
- 5) Review flood study and implements actions as required to ensure that residual risk is within appetite.

## Appendix A - Abbreviations

<b>AAAC</b>	<b>Average annual asset consumption</b>
<b>AMP</b>	<b>Asset Management Plan</b>
<b>ARI</b>	<b>Average Recurrence Interval</b>
<b>CRC</b>	<b>Current Replacement Cost</b>
<b>CWMS</b>	<b>Community Wastewater Management Systems</b>
<b>DA</b>	<b>Depreciable Amount</b>
<b>EF</b>	<b>Earthworks/Formation</b>
<b>IRMP</b>	<b>Infrastructure Risk Management Plan</b>
<b>LCC</b>	<b>Life Cycle Cost</b>
<b>LCE</b>	<b>Life Cycle Expenditure</b>
<b>LGIS</b>	<b>Local Government Infrastructure Services</b>
<b>MMS</b>	<b>Maintenance Management System</b>
<b>PCI</b>	<b>Pavement Condition Index</b>
<b>RV</b>	<b>Residual Value</b>
<b>Vph</b>	<b>Vehicles per hour</b>

## Appendix B – Glossary

### Annual Service Cost (ASC)

1. Reporting actual cost. The annual accrual Cost of providing a service including operations, maintenance, depreciation, finance/opportunity and disposal costs less revenue.
2. For investment analysis and budgeting. An estimate of the cost that would be tendered, per annum, if tenders were called for the supply of a service to a performance specification for a fixed term. The Annual Service Cost included operations, maintenance, depreciation, finance/opportunity and disposal costs, less revenue.

### Asset

A resource controlled by an entity as a result of past events and from which future economic benefits are expected to flow to the entity. Infrastructure assets are a sub-class of property, plant and equipment which are non-current assets with a life greater than 12 months and enable services to be provided.

### Asset class

A group asset having a similar nature or function in the operations of an entity, and which, for purpose of disclosure, is shown as a single item without supplementary disclosure.

### Asset condition assessment

The process of continuous or periodic inspection, assessment, measurement and interpretation of the resultant data to indicate the condition of a specific asset so as to determine the need for some preventative or remedial action.

### Asset management (AM)

The combination of management, financial, economic, engineering and other practices applied to physical assets with the objective of providing the required level of service in the most cost-effective manner.

### Average annual asset consumption (AAAC)\*

The amount of a Council's asset base consumed during a reporting period (generally a year). This may be calculated by dividing the depreciable amount by the useful life) or total future economic benefits/service potential) and totalled for each and every asset OR by dividing the carrying amount

(depreciated useful life (or remaining future economic benefits/service potential) and totalled for each and every asset in an asset category or class.

### Borrowings

A borrowings or loan is a contractual obligation of the borrowing entity to deliver cash or another financial asset to the lending entity over a specified period of time or at a specified point in time, to cover both the initial capital provided and the cost of the interest incurred for providing this capital. A borrowing or loan provides the means for the borrowing entity to finance outlays (typically physical assets) when it has insufficient funds of its own to do so, and for the lending entity to make a financial return, normally in the form of interest revenue, on the funding provided.

### Capital expenditure

Relatively large (material) expenditure, which has benefits, expected to last for more than 12 months. Capital expenditure includes renewal, expansion and upgrade. Where capital projects involve a combination of renewal, expansion and/or cost needs to be allocated accordingly.

### Capital expenditure – expansion

Expenditure that extends the capacity of an existing asset to provide benefits, at the same standard as is currently enjoyed by existing beneficiaries, to a new group of users. It is discretionary expenditure, which increases future operations and maintenance costs, because it increases the Council's asset base, but may be associated with additional revenue from the new user group e.g. extending a drainage or road network, the provision of an oval or park in a new suburb for residents.

### Capital Expenditure – new

Expenditure which creates a new asset providing a new service/output that did not exist beforehand. As it increases service potential it may impact revenue and will increase future operations and maintenance expenditure.

### Capital expenditure – renewal

Expenditure on an existing asset or on replacing an existing asset, which returns the service capability of the asset up to that which it had originally. It is periodically required expenditure, relatively large (material) in value compared with the value of the asset being renewed. As it reinstates exiting service potential, it generally has no impact on

revenue, but may reduce future operations and maintenance expenditure if completed at the optimum time, e.g. resurfacing or resheeting a material part of a road network, replacing a material section of a drainage network with pipes of the same capacity, resurfacing an oval.

#### **Capital expenditure - upgrade**

Expenditure, which enhances an existing asset to provide a higher level of service or expenditure that will increase the life of the asset beyond that which it has originally. Upgrade expenditure is discretionary and often does not result in additional revenue unless direct user charges apply. It will increase operations and maintenance expenditure in the future because of the increase in Council's asset base. E.g. widening the sealed area of an existing road, replacing drainage pipes with pipes of a greater capacity, enlarging a grandstand at a sporting facility.

#### **Capital funding**

Funding to pay for capital expenditure.

#### **Capital grants**

Monies received generally tied to the specific projects for which they are granted, which are often upgrade and/or expansion or new investment proposals.

#### **Capital investment expenditure**

See capital expenditure definition

#### **Capitalisation threshold**

The value of expenditure on non-current assets above which the expenditure and below which the expenditure is charged as an expense in the year of acquisition.

#### **Carrying amount**

The asset at which an asset is recognised after deducting any accumulated depreciation/amortisation and accumulated impairment losses thereon.

#### **Component**

Specific parts of an asset having independent physical or functional identity and having specific attributes such as different life expectancy, maintenance regimes, risk or criticality.

#### **Cost of an asset**

The amount of cash or cash equivalents paid, or the fair value of the consideration given to acquire an

asset at the time of its acquisition or construction, including any costs necessary to place the asset into service. This includes on-off design and project management costs.

#### **Current replacement cost (CRC)**

The costs the entity would incur to acquire the asset on the reporting date. The cost is measured by reference to the lowest cost at which the gross future economic benefits could be obtained in the normal course of business or the minimum it would cost, to replace the existing asset with a technologically modern equivalent new asset (not a second one) with the same economic benefits (gross service potential) allowing for any differences in the quantity and quality of output and in operating costs.

#### **Depreciable amount**

The cost of an asset, or other amount substituted for its cost, less its residual value.

#### **Depreciated replacement cost (DRC)**

The current replacement cost (CRC) of an asset less, where applicable, accumulated depreciation calculated on the basis of such cost to reflect the already consumed or expired future economic benefits of the asset.

#### **Depreciation/amortisation**

The systematic allocation of the depreciable amount (service potential) of an asset over its useful life.

#### **Economic life**

See useful life definition

#### **Expenditure**

The spending of money on goods and services. Expenditure includes recurrent and capital.

#### **Fair value**

The amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties, in an arm's length transaction.

#### **Funding gap**

A funding gap exists whenever an entity has insufficient capacity to fund asset renewal and other expenditure necessary to be able to appropriately maintain the range and level of services its existing asset stock was originally designed and intended to deliver. The service capability of the existing asset stock should be

determined assuming no additional operating revenue liabilities above levels currently planned or projected. A current funding gap means service levels have already or are currently falling. A projected funding gap if not addressed will result in future diminution of existing service levels.

**Heritage asset**

An asset with historic, artistic, scientific, technological, geographical or environmental qualities that is held and maintained principally for its contribution to knowledge and culture of the entity holding it.

**Impairment loss**

The amount by which the carrying amount of asset exceeds its recoverable amount.

**Investment property**

Property held to earn rentals or for capital appreciation or both, rather than for;

- a) Use in the production or supply of goods or services or for administrative purposes; or
- b) Sale in the ordinary course of business

**Key performance indicator**

A qualitative or quantitative measure if a service or activity used to compare actual performance against a standard or other target. Performance indicators commonly relate to statutory limits, safety, responsiveness, cost, comfort, asset performance, reliability, efficiency, environmental protection and customer satisfaction.

**Level of service**

The defined service quality for a particular service/activity against which service performance may be measured. Service levels usually relate to quality, quantity, reliability, responsiveness, environmental impact, acceptability and cost.

**Life cycle cost**

1. Total LCC. The total cost of an asset throughout its life including planning, design, construction, acquisition, operation maintenance, rehabilitation and disposal costs.
2. Average LCC. The life cycle cost (LCC) is average cost to provide the service over the longest asset life cycle. It comprises annual operations, maintenance and asset consumption expense, represented by depreciation expense. The Life Cycle Cost

does not indicate the funds required to provide the service in a particular year.

**Life Cycle Expenditure**

The Life Cycle Expenditure (LCE) is the actual or planned annual operations, maintenance and capital renewal expenditure incurred in providing the service in a particular year. Life Cycle Expenditure Cost to give an initial indicator of life cycle sustainability.

**Maintenance**

All actions necessary for retaining an asset near as practicable to its original condition, including regular ongoing day-to-day work necessary to keep assets operating, eg road patching but excluding rehabilitation or renewal. It is operating expenditure required to ensure that the asset reaches its expected useful life.

**Planned maintenance**

Repair work that is identified and managed through a maintenance management system (MMS). MMS activities include inspection, assessing the condition against failure/breakdown criteria/experience, prioritising scheduling, actioning the work and reporting what was done to develop a maintenance history and improve maintenance and service delivery performance.

**Reactive maintenance**

Unplanned repair work is carried out in response to service requests and management/supervisory directions.

**Significant maintenance**

Maintenance work to repair components or replace sub-components that needs to be identified as a specific maintenance item in the maintenance budget.

**Unplanned maintenance**

Corrective work required in the short-term to restore an asset to working condition so it can continue to deliver the required services or to maintain its level of security and integrity.

**Maintenance and renewal gap**

Difference between estimated budgets and projected required expenditures for maintenance and renewal of assets to achieve/maintain specified levels, totalled over a defined time (e.g 5,10 and 15 years).



**Maintenance and renewal sustainability index**

Ratio of estimated budget to projected expenditure for maintenance and renewal of assets over a defined time (e.g., 5,10, and 15 years).

**Maintenance expenditure**

Recurrent expenditure, which is periodically or regularly required as part of the anticipated schedule of works required to ensure that the asset achieves its useful life and provides the required level of service. It is expenditure, which is anticipated in determining the asset's useful life.

**Materiality**

The notion of materiality guides the margin of error acceptable, the degree of precision required, and the extent of the disclosure required when preparing general purpose financial reports. Information is material if its omission, misstatement or non-disclosure has the potential, individually or collectively, to influence the economic decisions of users taken on the basis of the financial report or affect the discharge of accountability by the management or governing body of the entity.

**Modern equivalent asset**

Assets that replicate what is in existence with the most cost-effective asset performing the same level of service. It is the most cost efficient, currently available asset which will provide the same stream of services as the existing asset is capable of producing. It allows for technology changes and, improvements and efficiencies in production and installation techniques.

**Net present value (NPV)**

The value to the Council of the cash flows associated with an asset, liability, activity or event calculated using a discount rate to reflect the time value of money. It is the net amount of discounted total cash inflows arising from e.g. the continued use and subsequent disposal of the asset after deducting the value of the discounted total cash outflows.

**Non-revenue generating investments**

Investments for the provision of goods and services to sustain or improve services to the community that are not expected to generate any savings or revenue to Council, e.g. parks and playgrounds, footpaths, roads and bridges, libraries etc

**Operations expenditure**

Recurrent expenditure, which is continuously required to provide a service. In common use the term typically includes eg power, fuel, staff, plant equipment, on-costs and overheads but excludes maintenance and depreciation. Maintenance and depreciation is on the other hand included in operating expenses.

**Operating expense**

The gross outflow of economic benefits, being cash and non-cash items, during the period arising in the course of ordinary activities of an entity when those outflows result in decreases relating to distributions to equity participants.

**Pavements management system**

A systematic process for measuring and predicting the condition of road pavements and wearing surfaces over time and recommending corrective actions.

**PMs Score**

A measure of condition of a road segment determined from a Pavement Management System.

**Rate of annual asset consumption**

A measure of rate at which assets are being upgraded and expended per annum expressed as a percentage of depreciable amount (capital upgrade/expansion /expenditure/DA).

**Recurrent expenditure**

Relatively small (immaterial) expenditure or that which has benefits expected to last less than 12 months. Recurrent expenditure includes operations and maintenance expenditure.

**Recurrent funding**

Funding to pay for recurrent expenditure.

**Remaining useful life**

The time remaining until an asset ceases to provide the required service level or economic usefulness. Age plus remaining useful life is useful life.

**Residual value**

The estimated amount that an entity would currently obtain from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of age and in the condition expected at the end of its useful life.

**Revenue generating investments**

Investments for the provision of goods and services to sustain or improve services to the community that are expected to generate some savings or revenue to offset operating costs, eg public halls and theatres, childcare centres, sporting and recreation facilities, tourist information centres etc.

**Risk Management**

The application of a formal process to the range of possible values relating to key factors associated with risk in order to determine the resultant ranges of outcomes and their probability of occurrence.

**Section or segment**

A self-contained part or piece of an infrastructure asset.

**Service potential**

The total future service capacity of an asset. It is normally determined by reference to the operating capacity and economic life of an asset. A measure of service potential is used in the not-for-profit sector/public sector to value assets, particularly those not producing a cash flow.

**Service potential remaining**

A measure of the future economic benefits remaining in assets. It may be expressed in dollar values (Fair Value) or as a percentage of total anticipated future economic benefits.

It is also a measure of the percentage of the asset's potential to provide services that is still available for use in providing services (Depreciated Replacement Costs/Depreciable Amount)

**Strategic Longer-Term Plan**

A plan covering the term of office of councillors (4years minimum) reflecting the needs of the community for the foreseeable future. It brings together the detailed requirements in Councils longer-term plans such as the service management plan and the long-term financial plan. The plan is prepared in consultation with the community and details where Council is at that point in time, where it wants to go, how it is going to get there, mechanisms for monitoring the achievement of the outcomes and how the plan will be resourced.

**Specific maintenance**

Replacement of higher value components/sub-components of assets that is undertaken on a regular cycle including potholes repairs, replacement of pump equipment etc. This work

generally falls below the capital/maintenance threshold and needs to be identified in a specific maintenance budget allocation.

**Sub-component**

Smaller individual parts that make up a component part.

**Useful life**

Either:

- a) The period over which an asset is expected to be available for use by an entity or
- b) The number of production or similar units expected to be obtained from the asset by the entity.

It is estimated or expected time between placing the asset into service and removing it from service, or the estimated period over which the future economic benefits embodied in a depreciable asset, are expected to be consumed by Council.

**Value in use**

The present value of future cash flows expected to be derived from an asset or cash generating unit. It is deemed to be depreciated replacement costs (DRC) for those assets whose future economic benefits are not primarily dependent on the asset's 'a ability to generate net cash inflows, where the entity would, if deprived of the asset, replace its remaining future economic benefits

## Appendix C – Renewal Plan

### Asset Class: Stormwater

	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Compone nt	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumptio n Score
* E002	0	2022	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$2,340	2022/23	5
* Culvert – Wongalea Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$3,702	\$6,041	2022/23	5
* Culvert - WongaleaRoad	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$3,805	\$9,846	2022/23	5
* Culvert - Alma Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$3,856	\$13,702	2022/23	5
* Culvert - Alma Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$4,730	\$18,432	2022/23	5
* Culvert - Glenhope Road	0	2022	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	\$5,296	\$23,728	2022/23	5
* Culvert - Yurdyilla Road	0	2022	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	\$12,804	\$36,532	2022/23	5
* Culvert - Sidonia Road	0	2022	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	\$16,892	\$53,424	2022/23	5
* Culvert - Five Ways Lane	0	2022	Stormwater Assets	Rural Culvert	RCP	Unknown	Standard Cost - Standard Life	\$48,844	\$102,268	2023/24	5
* Channel - Booligal-Gunbah Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$0	\$102,268	2023/24	4.9
* Culvert - Old Thelangerin Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$3,779	\$106,047	2023/24	4.9
* Culvert - Warrendale Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	\$3,805	\$109,852	2023/24	4.9
* Culvert - Bagot Street	0	2022	Stormwater Assets	Rural Culvert	RCP	375	Standard Cost - Standard Life	\$4,078	\$113,929	2023/24	4.9
* Channel - Warrendale Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	0	\$113,929	2022/23	4.8
* Culvert - BelaleyRoad	3	2025	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.951976	\$117,708	2023/24	4.5
* Culvert - Booligal-Gunbah Road	3	2025	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.951976	\$121,487	2023/24	4.5
* Culvert - Nullagong Road	3	2025	Stormwater Assets	Rural Culvert	RCP	300	Standard Cost - Standard Life	4039.637813	\$125,527	2023/24	4.5
* Culvert - Booligal-Gunbah Road	3	2025	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4061.730695	\$129,588	2024/25	4.5
* Culvert - WongaleaRoad	3	2025	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	7609.318265	\$137,198	2024/25	4.5

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Compone nt	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumptio n Score
								23752.394			
* Culvert - Nap Nap Road	3	2025	Stormwater Assets	Rural Culvert	RCP	1050	Standard Cost - Standard Life	32	\$160,950	2024/25	4.5
* C384	11	2033	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$162,551	2024/25	4
* C385	11	2033	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$164,152	2024/25	4
* C386	11	2033	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$165,752	2024/25	4
* C387	11	2033	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$167,353	2024/25	4
* C388	11	2033	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$168,954	2024/25	4
* C389	11	2033	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$170,555	2024/25	4
								2776.3728			
* Culvert - Red Hill Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	8	\$173,331	2024/25	4
								2970.3219			
* Culvert - Boxyards Road	11	2033	Stormwater Assets	Rural Culvert	RCP	300	Standard Cost - Standard Life	21	\$176,301	2024/25	4
								3009.9262			
* Culvert - Boxyards Road	11	2033	Stormwater Assets	Rural Culvert	RCP	300	Standard Cost - Standard Life	13	\$179,311	2024/25	4
								3009.9262			
* Culvert - Boxyards Road	11	2033	Stormwater Assets	Rural Culvert	RCP	300	Standard Cost - Standard Life	13	\$182,321	2024/25	4
								3701.8305			
* Culvert - Wongalea Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	07	\$186,023	2025/26	4
								3753.2448			
* Culvert - Wongalea Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	2	\$189,776	2025/26	4
								3763.5276			
* Culvert - Nullagong Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	82	\$193,540	2025/26	4
								3763.5276			
* Culvert - Nullagong Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	82	\$197,303	2025/26	4
								3778.9519			
* Culvert - Belaley Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	76	\$201,082	2025/26	4
								3778.9519			
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	76	\$204,861	2025/26	4
								3778.9519			
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	76	\$208,640	2025/26	4
								3778.9519			
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	76	\$212,419	2025/26	4
								3778.9519			
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	76	\$216,198	2025/26	4

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.951976	\$219,977	2025/26	4
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.951976	\$223,756	2025/26	4
* Culvert - Wongalea Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3804.659132	\$227,561	2025/26	4
* Culvert - Wongalea Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3804.659132	\$231,365	2025/26	4
* Culvert - Alma Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3856.073445	\$235,221	2026/27	4
* Culvert - Booligal-Gunbah Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4061.730695	\$239,283	2026/27	4
* Culvert - Cemetery Road	11	2033	Stormwater Assets	Rural Culvert	RCP	375	Standard Cost - Standard Life	4530.56814	\$243,814	2026/27	4
* Culvert - MR 319	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4884.359697	\$248,698	2026/27	4
* Culvert - Nap Nap Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5038.602635	\$253,737	2026/27	4
* Culvert - Jackson St	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.43126	\$258,878	2026/27	4
* Culvert - Nap Nap Road	11	2033	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5398.502823	\$264,276	2026/27	4
* Culvert - Boxyards Road	11	2033	Stormwater Assets	Rural Culvert	RCBC	450X300	Standard Cost - Standard Life	5797.091009	\$270,074	2026/27	4
* Culvert - Nap Nap Road	11	2033	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	14400.07995	\$284,474	2026/27	4
* Culvert - Sidonia Road	0	2022	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	\$0	\$284,474	2027/28	3.5
* Channel - Jerilderie Road	0	2022	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	0	\$284,474	2027/28	3.5
* Stormwater Pipe - Network 15 from C011 to C023	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	627.779956	\$285,101	2027/28	3.5
* Stormwater Pipe - Network 13 from C032 to X	25	2047	Stormwater Assets	Stormwater Pipe	<1m	PVC <300	Standard Cost - Standard Life	1050.42495	\$286,152	2027/28	3.5
* Stormwater Pipe - Network 13 from C037 to C034	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	1635.401727	\$287,787	2027/28	3.5

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 13 from CFGP5 to CHW9	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	1712.127153	\$289,499	2027/28	3.5
* Stormwater Pipe - Network 14 from C027 to C024	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	1739.789071	\$291,239	2027/28	3.5
* Stormwater Pipe - Network 13 from C034 to C033	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	1878.972197	\$293,118	2027/28	3.5
* Stormwater Pipe - Network 15 from C023 to CFGP10	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	1940.410773	\$295,059	2027/28	3.5
* Stormwater Pipe - Network 15 from C010 to C023	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	1940.410773	\$296,999	2027/28	3.5
* Stormwater Pipe - Network 13 from C030 to C031	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	1948.56376	\$298,948	2027/28	3.5
* Stormwater Pipe - Network 13 from C035 to C034	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	1983.359541	\$300,931	2027/28	3.5
* Stormwater Pipe - Network 4 from C276 to C112	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	2111.041132	\$303,042	2027/28	3.5
* Stormwater Pipe - Network 14 from C026 to CFGP6	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	2296.521574	\$305,338	2027/28	3.5
* Stormwater Pipe - Network 17 from C006 to C007	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc <300	Standard Cost - Standard Life	2806.665583	\$308,145	2027/28	3.5
* Stormwater Pipe - Network 14 from C024 to C025	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	2996.222517	\$311,141	2027/28	3.5
* Stormwater Pipe - Network 14 from C028 to C027	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	3027.232984	\$314,169	2027/28	3.5
* Culvert - Booligal-Gunbah Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.951976	\$317,947	2027/28	3.5
* Culvert - Old Thelangerin Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.951976	\$321,726	2028/29	3.5
* Stormwater Pipe - Network 14 from C029 to C028	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	4140.697989	\$325,867	2028/29	3.5
* Culvert - Boxyards Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4267.387946	\$330,135	2028/29	3.5
* Culvert - Daisy Plains Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4421.630884	\$334,556	2028/29	3.5
* Culvert - Belale Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4524.459509	\$339,081	2028/29	3.5

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Culvert - Old Thelangerin Road	19	2041	Stormwater Assets	Rural Culvert	RCP	375	Standard Cost - Standard Life	4621.179503	\$343,702	2028/29	3.5
* Culvert - Glencoe Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.43126	\$348,843	2028/29	3.5
* Culvert - Nap Nap Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.43126	\$353,985	2028/29	3.5
* Culvert - Corrong Road	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5244.259885	\$359,229	2028/29	3.5
* Culvert - Cemetery Road	19	2041	Stormwater Assets	Rural Culvert	RCP	525	Standard Cost - Standard Life	5287.529356	\$364,516	2029/30	3.5
* Stormwater Pipe - Network 4 from C273 to CHW13	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	5357.676804	\$369,874	2029/30	3.5
* Stormwater Pipe - Network 17 from C007 to C008	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	5377.476914	\$375,252	2029/30	3.5
* Culvert - Mutherumbung	19	2041	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5398.502823	\$380,650	2029/30	3.5
* Stormwater Pipe - Network 17 from C008 to CHW1	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	5483.611327	\$386,134	2029/30	3.5
* Culvert - Boxyards Road	19	2041	Stormwater Assets	Rural Culvert	RCBC	450X300	Standard Cost - Standard Life	5722.769329	\$391,856	2029/30	3.5
* Stormwater Pipe - Network 13 from X to C033	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	6506.811126	\$398,363	2029/30	3.5
* Stormwater Pipe - Network 15 from CFGP10 to CHW3	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 525	Standard Cost - Standard Life	7267.805057	\$405,631	2029/30	3.5
* Stormwater Pipe - Network 14 from CFGP6 to CHW5	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	7655.071912	\$413,286	2030/31	3.5
* Stormwater Pipe - Network 4 from C112 to C113	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	7655.071912	\$420,941	2030/31	3.5
* Stormwater Pipe - Network 14 from C025 to CFGP6	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	7961.39126	\$428,903	2030/31	3.5
* Culvert - Sidonia Road	19	2041	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	10669.7425	\$439,572	2030/31	3.5
* Culvert - Sidonia Road	19	2041	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	11203.22962	\$450,776	2030/31	3.5
* Stormwater Pipe - Network 16 from C009 to CHW2	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	11756.60645	\$462,532	2031/32	3.5

	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Compone nt	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumptio n Score
* Stormwater Pipe - Network 17 from C383 to C006	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	PVC<300	Standard Cost - Standard Life	12027.83884	\$474,560	2031/32	3.5
* Stormwater Pipe - Network 13 from C033 to CFGP5	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	13083.21381	\$487,643	2031/32	3.5
* Stormwater Pipe - Network 13 from C031 to X	25	2047	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	13813.92522	\$501,457		3.5
* Stormwater Pipe - Network 4 from C113 to C273	25	2047	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	37503.73763	\$538,961		3.5
* Culvert - Glenhope Road	0	2022	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	\$0	\$538,961		3
* Culvert - Murrumbidgee River Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	\$0	\$538,961		3
* Culvert - Romani Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	\$0	\$538,961		3
* Culvert - Romani Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	\$0	\$538,961		3
* Culvert - Romani Road	0	2022	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	\$0	\$538,961		3
* Culvert - Corrong Road	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	0	\$538,961		3
* Culvert - Glencoe Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	0	\$538,961		3
* Culvert - Glencoe Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	0	\$538,961		3
* Channel - Mutherumbung	0	2022	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	0	\$538,961		3
* Channel - Pollen Creek Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	0	\$538,961		3
* Culvert - Ti Tree Road	0	2022	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	0	\$538,961		3
* Channel - Alma Road	0	2022	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	0	\$538,961		3
* E053	0	2022	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	0	\$538,961		3
* Stormwater Pipe - Network 23 from E026 to E130	35	2057	Stormwater Assets	Stormwater Pipe	<1m	FC<300	Standard Cost - Standard Life	378.5315134	\$539,339		3
* Stormwater Pipe - Network 8 from C089 to C049	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 450	Standard Cost - Standard Life	445.5024734	\$539,785		3
* Stormwater Pipe - Network 8 from C234 to C232	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	570.7090509	\$540,356		3
* Stormwater Pipe - Network 8 from C235 to C234	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	656.3154085	\$541,012		3
* Stormwater Pipe - Network 23 from E002 to E003	35	2057	Stormwater Assets	Stormwater Pipe	<1m	FC 375	Standard Cost - Standard Life	749.7835745	\$541,762		3



Asset Name	WAvg-RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* CHW12	27	2049	Stormwater Assets	Stormwater Pit	300	H'wall	Standard Cost - Standard Life	754.80283 8	\$542,517		3
* CHW24	27	2049	Stormwater Assets	Stormwater Pit	300	H'wall	Standard Cost - Standard Life	754.80283 8	\$543,271		3
* CHW10	27	2049	Stormwater Assets	Stormwater Pit	375	H'wall	Standard Cost - Standard Life	806.51853	\$544,078		3
* CHW17	27	2049	Stormwater Assets	Stormwater Pit	375	H'wall	Standard Cost - Standard Life	806.51853	\$544,884		3
* CHW18	27	2049	Stormwater Assets	Stormwater Pit	375	H'wall	Standard Cost - Standard Life	806.51853	\$545,691		3
* CHW19	27	2049	Stormwater Assets	Stormwater Pit	375	H'wall	Standard Cost - Standard Life	806.51853	\$546,497		3
* CHW23	27	2049	Stormwater Assets	Stormwater Pit	375	H'wall	Standard Cost - Standard Life	806.51853	\$547,304		3
* CHW5	27	2049	Stormwater Assets	Stormwater Pit	375	H'wall	Standard Cost - Standard Life	806.51853	\$548,110		3
* Stormwater Pipe - Network 8 from C236 to C235	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	856.06357 64	\$548,967		3
* Stormwater Pipe - Network 8 from C265 to C264	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	856.06357 64	\$549,823		3
* Stormwater Pipe - Network 8 from C267 to C266	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	856.06357 64	\$550,679		3
* Stormwater Pipe - Network 8 from C233 to C347	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	856.06357 64	\$551,535		3
* CHW13	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$552,399		3
* CHW14	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$553,264		3
* CHW15	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$554,128		3
* CHW20	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$554,992		3
* CHW21	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$555,857		3
* CHW22	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$556,721		3
* CHW8	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$557,585		3
* WHW1	27	2049	Stormwater Assets	Stormwater Pit	450	H'wall	Standard Cost - Standard Life	864.39085 2	\$558,450		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 8 from CHW20 to C089	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 450	Standard Cost - Standard Life	891.0049468	\$559,341		3
* Stormwater Pipe - Network 23 from E001 to E010	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	984.4731128	\$560,325		3
* Stormwater Pipe - Network 23 from E008 to E009	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	1112.882649	\$561,438		3
* Stormwater Pipe - Network 23 from E004 to E005	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	FC 375	Standard Cost - Standard Life	1139.962211	\$562,578		3
* Stormwater Pipe - Network 23 from E006 to E007	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	1198.489007	\$563,777		3
* Stormwater Pipe - Network 8 from C063 to C062	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	1284.095365	\$565,061		3
* Stormwater Pipe - Network 8 from C372 to C373	35	2057	Stormwater Assets	Stormwater Pipe	<1m	PVC <300	Standard Cost - Standard Life	1292.830707	\$566,354		3
* CHW11	27	2049	Stormwater Assets	Stormwater Pit	600	H'wall	Standard Cost - Standard Life	1369.234512	\$567,723		3
* CHW25	27	2049	Stormwater Assets	Stormwater Pit	600	H'wall	Standard Cost - Standard Life	1369.234512	\$569,092		3
* Stormwater Pipe - Network 23 from E035 to E034	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	1388.919476	\$570,481		3
* Stormwater Pipe - Network 3 from C114 to C270	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	1415.125504	\$571,896		3
* Stormwater Pipe - Network 8 from CHW10 to C266	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	1426.772627	\$573,323		3
* Stormwater Pipe - Network 8 from C095 to C056	35	2057	Stormwater Assets	Stormwater Pipe	<1m	PVC <300	Standard Cost - Standard Life	1551.396849	\$574,874		3
* C023	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$576,475		3
* C037	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$578,076		3
* C093	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$579,676		3
* C096	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$581,277		3
* C248	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$582,878		3
* C249	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$584,479		3
* C277	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$586,079		3
* C278	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$587,680		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* C279	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$589,281		3
* C280	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$590,882		3
* C281	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$592,482		3
* C291	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$594,083		3
* C297	27	2049	Stormwater Assets	Stormwater Pit	<1m	GIP	Standard Cost - Standard Life	1600.7238	\$595,684		3
* C298	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$597,284		3
* C303	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$598,885		3
* C304	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$600,486		3
* C305	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$602,087		3
* C306	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$603,687		3
* C326	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$605,288		3
* C327	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$606,889		3
* C328	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$608,490		3
* C329	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$610,090		3
* C336	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$611,691		3
* C337	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$613,292		3
* C339	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$614,892		3
* C340	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$616,493		3
* C341	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$618,094		3
* C342	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$619,695		3
* C343	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$621,295		3
* C344	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$622,896		3
* C345	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$624,497		3
* C346	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$626,097		3
* C347	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$627,698		3
* C348	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$629,299		3
* C349	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$630,900		3
* C354	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$632,500		3
* C368	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$634,101		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* C369	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$635,702		3
* C374	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$637,303		3
* C375	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$638,903		3
* C377	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$640,504		3
* C378	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$642,105		3
* C380	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$643,705		3
* C396	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$645,306		3
* C397	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$646,907		3
* C398	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$648,508		3
* C399	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$650,108		3
* C400	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$651,709		3
* C401	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$653,310		3
* C402	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$654,910		3
* C403	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$656,511		3
* C404	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$658,112		3
* C405	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$659,713		3
* C406	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$661,313		3
* C407	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$662,914		3
* C408	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$664,515		3
* C409	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$666,116		3
* C410	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$667,716		3
* E010	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$669,317		3
* E011	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$670,918		3
* E014	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$672,518		3
* E015	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$674,119		3
* E063	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$675,720		3
* E081	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$677,321		3
* E082	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$678,921		3
* E095	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$680,522		3

Asset Name	W Avg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* E097	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$682,123		3
* E111	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$683,724		3
* E129	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$685,324		3
* E130	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$686,925		3
* E133	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$688,526		3
* E159	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$690,126		3
* N021	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$691,727		3
* N036	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$693,328		3
* N074	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$694,929		3
* N076	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$696,529		3
* N077	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$698,130		3
* N131	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$699,731		3
* N136	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$701,331		3
* N137	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$702,932		3
* N138	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$704,533		3
* N139	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$706,134		3
* N140	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$707,734		3
* N141	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$709,335		3
* N143	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$710,936		3
* N144	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$712,537		3
* N145	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$714,137		3
* N148	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$715,738		3
* N149	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$717,339		3
* N150	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$718,939		3
* N151	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$720,540		3
* N168	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$722,141		3
* N169	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$723,742		3
* N170	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$725,342		3
* N179	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$726,943		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* N181	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$728,544		3
* N182	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$730,145		3
* N183	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$731,745		3
* W030	27	2049	Stormwater Assets	Stormwater Pit	<1m	JP	Standard Cost - Standard Life	1600.7238	\$733,346		3
* N098	27	2049	Stormwater Assets	Stormwater Pit	Unknown	Unknown	Standard Cost - Standard Life	1600.7238	\$734,947		3
* N099	27	2049	Stormwater Assets	Stormwater Pit	Unknown	Unknown	Standard Cost - Standard Life	1600.7238	\$736,547		3
								1812.2272			
* Culvert - Ward Street	27	2049	Stormwater Assets	Rural Culvert	RCP	375	Standard Cost - Standard Life	56	\$738,360		3
								1821.1311			
* CHW16	27	2049	Stormwater Assets	Stormwater Pit	750	H'wall	Standard Cost - Standard Life	54	\$740,181		3
* Stormwater Pipe - Network 8 from C056 to C096	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	2026.0171	31	\$742,207	3
* Stormwater Pipe - Network 3 from C269 to C115	35	2057	Stormwater Assets	Stormwater Pipe	<1m	PVC <300	Standard Cost - Standard Life	2149.3310	51	\$744,356	3
* Stormwater Pipe - Network 5 from C268 to C116	35	2057	Stormwater Assets	Stormwater Pipe	<1m	PVC <300	Standard Cost - Standard Life	2181.6518	18	\$746,538	3
* Stormwater Pipe - Network 5 from C105 to C106	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	2216.5931	89	\$748,754	3
* C042	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$751,094		3
* C159	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$753,433		3
* C262	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$755,773		3
* C302	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$758,112		3
* C319	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$760,452		3
* C370	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$762,791		3
* C371	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$765,131		3
* C373	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$767,471		3
* C376	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$769,810		3
* N020	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$772,150		3
* N023	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$774,489		3
* N024	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$776,829		3
* N025	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$779,168		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* N031	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$781,508		3
* N032	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$783,847		3
* N040	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$786,187		3
* N043	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$788,526		3
* N044	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$790,866		3
* N045	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$793,205		3
* N046	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$795,545		3
* N047	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$797,884		3
* N055	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$800,224		3
* N056	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$802,563		3
* N065	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$804,903		3
* N066	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$807,242		3
* N067	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$809,582		3
* N069	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$811,921		3
* N070	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$814,261		3
* N071	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$816,600		3
* N103	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$818,940		3
* N123	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$821,279		3
* N134	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$823,619		3
* N165	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$825,958		3
* W021	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$828,298		3
* W024	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$830,638		3
* W037	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$832,977		3
* W038	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$835,317		3
* W052	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$837,656		3
* W063	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$839,996		3
* W064	27	2049	Stormwater Assets	Stormwater Pit	<1m	KIP	Standard Cost - Standard Life	2339.5194	\$842,335		3
* Stormwater Pipe - Network5 from C128 to C127	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc375	Standard Cost - Standard Life	2366.1131 37	\$844,701		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 8 from C064 to C063	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	2385.476479	\$847,087		3
* Stormwater Pipe - Network 23 from E102 to X	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	2435.704699	\$849,522		3
* C372	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$851,985		3
* C381	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$854,448		3
* C382	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$856,910		3
* C390	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$859,373		3
* C391	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$861,836		3
* E124	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$864,298		3
* E125	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$866,761		3
* N167	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$869,224		3
* W061	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$871,686		3
* W062	27	2049	Stormwater Assets	Stormwater Pit	<1m	GKIP	Standard Cost - Standard Life	2462.652	\$874,149		3
* Stormwater Pipe - Network 23 from E025 to E130	35	2057	Stormwater Assets	Stormwater Pipe	<1m	FC <300	Standard Cost - Standard Life	2555.087715	\$876,704		3
* C059	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$879,290		3
* C137	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$881,876		3
* C143	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$884,461		3
* C226	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$887,047		3
* C245	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$889,633		3
* C246	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$892,219		3
* C247	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$894,805		3
* C272	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$897,390		3
* C392	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$899,976		3
* E031	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$902,562		3
* E152	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$905,148		3
* E153	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$907,733		3
* E154	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$910,319		3
* E155	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$912,905		3



Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* N051	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$915,491		3
* N154	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$918,077		3
* N155	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$920,662		3
* W006	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$923,248		3
* W056	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	JP	Standard Cost - Standard Life	2585.7846	\$925,834		3
* Stormwater Pipe - Network 3 from C270 to C348	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	2678.8384 02	\$928,513		3
* Stormwater Pipe - Network 23 from E129 to E002	35	2057	Stormwater Assets	Stormwater Pipe	<1m	FC 375	Standard Cost - Standard Life	2849.1775 83	\$931,362		3
* Harvey St	27	2049	Stormwater Assets	Urban Culvert	RCP	450	Standard Cost - Standard Life	2879.2015 06	\$934,241		3
* Culvert - Glenhope Road	27	2049	Stormwater Assets	Rural Culvert	RCP	300	Standard Cost - Standard Life	2910.9154 83	\$937,152		3
* Stormwater Pipe - Network 8 from C050 to C048	35	2057	Stormwater Assets	Stormwater Pipe	<1m	PVC <300	Standard Cost - Standard Life	2989.6710 1	\$940,142		3
* Stormwater Pipe - Network 8 from C091 to C092	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	2996.2225 17	\$943,138		3
* Stormwater Pipe - Network 5 from C124 to C125	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	3061.0096 42	\$946,199		3
* Stormwater Pipe - Network 5 from C306 to C126	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	3061.0096 42	\$949,260		3
* Culvert - West Burrabogie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3187.6873 81	\$952,448		3
* Stormwater Pipe - Network 23 from E010 to E108	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	3202.9589 59	\$955,651		3
* Stormwater Pipe - Network 23 from E094 to E035	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	3236.0076 72	\$958,887		3
* Culvert - West Burrabogie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3264.8088 5	\$962,151		3
* Stormwater Pipe - Network 2 from W019 to FGP12	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	3363.1069 07	\$965,515		3
* Culvert - Soapworks Road	27	2049	Stormwater Assets	Rural Culvert	RCP	375	Standard Cost - Standard Life	3397.9261 05	\$968,912		3
* Stormwater Pipe - Network 8 from C256 to C257	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	3424.2543 05	\$972,337		3

Hay Shire Council

Drainage and Flood Mitigation Asset Management Plan

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Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 3 from C271 to CFGP9	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	3472.2986 9	\$975,809		3
* C259	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$979,503		3
* C351	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$983,197		3
* E030	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$986,891		3
* E038	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$990,585		3
* E064	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$994,279		3
* E145	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$997,973		3
* N050	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$1,001,667		3
* W048	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$1,005,361		3
* W054	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$1,009,055		3
* W055	27	2049	Stormwater Assets	Stormwater Pit	1m-2m	KIP	Standard Cost - Standard Life	3693.978	\$1,012,749		3
* W016	27	2049	Stormwater Assets	Stormwater Pit	2m-3m	JP	Standard Cost - Standard Life	3693.978	\$1,016,443		3
* W058	27	2049	Stormwater Assets	Stormwater Pit	2m-3m	JP	Standard Cost - Standard Life	3693.978	\$1,020,137		3
* W059	27	2049	Stormwater Assets	Stormwater Pit	2m-3m	JP	Standard Cost - Standard Life	3693.978	\$1,023,831		3
* Culvert - Boxyards Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3701.8305 07	\$1,027,533		3
* Culvert - Wongalea Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3753.2448 2	\$1,031,286		3
* Culvert - Lara Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3763.5276 82	\$1,035,049		3
* Culvert - Nullagong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3763.5276 82	\$1,038,813		3
* Culvert - Toopuntal Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3763.5276 82	\$1,042,576		3
* Culvert - Belaleys Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,046,355		3
* Culvert - Belaleys Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,050,134		3
* Culvert - Booligal-Gunbah Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,053,913		3
* Culvert - Booligal-Gunbah Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,057,692		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Culvert - Booligal-Gunbah Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,061,471		3
* Culvert - Booligal-Gunbah Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,065,250		3
* Culvert - Booligal-Gunbah Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,069,029		3
* Culvert - Old Thelangerin Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,072,808		3
* Culvert - Old Thelangerin Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,076,587		3
* Culvert - Old Thelangerin Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,080,366		3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3778.9519 76	\$1,084,145		3
* Culvert - Sidonia Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3804.6591 32	\$1,087,950		3
* Culvert - Yurdyilla Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3804.6591 32	\$1,091,754		3
* Culvert - Boxyards Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3856.0734 45	\$1,095,610		3
* Culvert - Alma Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3856.0734 45	\$1,099,466		3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	3881.7806 01	\$1,103,348		3
* Stormwater Pipe - Network 5 from C122 to C123	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc <300	Standard Cost - Standard Life	3989.8677 4	\$1,107,338		3
* Stormwater Pipe - Network 3 from CFGP9 to CHW11	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	4003.6986 99	\$1,111,342		3
* Stormwater Pipe - Network 2 from W057 to W058	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	4163.8466 47	\$1,115,506		3
* Stormwater Pipe - Network 2 from W049 to W048	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	4175.4937 7	\$1,119,681		3
* Stormwater Pipe - Network 8 from C081 to C259	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	4223.2469 77	\$1,123,904		3
* Stormwater Pipe - Network 23 from E107 to E106	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	4245.0853 33	\$1,128,149		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 23 from E105 to X	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	4245.3765 11	\$1,132,395		3
* Stormwater Pipe - Network 8 from C061 to C060	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	4286.1414 44	\$1,136,681		3
* Stormwater Pipe - Network 5 from C127 to C129	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	4390.9655 55	\$1,141,072		3
* Culvert - Jarratts Lane	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4421.6308 84	\$1,145,493		3
* Culvert - Glencoe Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4627.2881 34	\$1,150,121		3
* Culvert - Old Thelangerin Road	27	2049	Stormwater Assets	Rural Culvert	RCP	525	Standard Cost - Standard Life	4665.4670 79	\$1,154,786		3
* Stormwater Pipe - Network 23 from E020 to E003	35	2057	Stormwater Assets	Stormwater Pipe	<1m	FC 375	Standard Cost - Standard Life	4678.6495 05	\$1,159,465		3
* Stormwater Pipe - Network 2 from W006 to W005	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	4708.3496 7	\$1,164,173		3
* Stormwater Pipe - Network 5 from C118 to C272	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	4708.3496 7	\$1,168,882		3
* Stormwater Pipe - Network 9 from C047 to CHW19	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	4732.2262 73	\$1,173,614		3
* Culvert - MR 319	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4781.5310 72	\$1,178,395		3
* Stormwater Pipe - Network 5 from X to C108	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	4782.6000 82	\$1,183,178		3
* Stormwater Pipe - Network 5 from C351 to C110	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc <300	Standard Cost - Standard Life	4815.3576 17	\$1,187,993		3
* Culvert - MR 319	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4832.9453 84	\$1,192,826		3
* Culvert - MR 514	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	4832.9453 84	\$1,197,659		3
* E065	27	2049	Stormwater Assets	Stormwater Pit	2m-3m	KIP	Standard Cost - Standard Life	4925.304	\$1,202,584		3
* Stormwater Pipe - Network 23 from E016 to E010	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	4941.0009 62	\$1,207,525		3
* Stormwater Pipe - Network 8 from C130 to C131	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	4965.1687 43	\$1,212,491		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Culvert - MR 501	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5018.0369	1	\$1,217,509	3
* Culvert - Boxyards Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5038.6026	35	\$1,222,547	3
* Culvert - Nap Nap Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5038.6026	35	\$1,227,586	3
* Culvert - West Burrabogie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5038.6026	35	\$1,232,625	3
* Stormwater Pipe - Network 5 from C121 to C120	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	5045.3883	06	\$1,237,670	3
* Stormwater Pipe - Network 8 from C079 to C080	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	5066.4987	17	\$1,242,736	3
* Stormwater Pipe - Network 23 from E117 to E116	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	5136.3814	58	\$1,247,873	3
* Culvert - Jerilderie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,253,014	3
* Culvert - Jerilderie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,258,156	3
* Culvert - Jerilderie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,263,297	3
* Culvert - Jerilderie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,268,439	3
* Culvert - Jerilderie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,273,580	3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,278,721	3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,283,863	3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,289,004	3
* Culvert - MR 514	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5141.4312	6	\$1,294,146	3
* Harvey St	27	2049	Stormwater Assets	Urban Culvert	RCBC	600X300	Standard Cost - Standard Life	5152.9697	86	\$1,299,299	3
* Stormwater Pipe - Network 23 from E104 to E103	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	5221.9878	16	\$1,304,521	3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Culvert - Wongalea Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5244.2598	85	\$1,309,765	3
* Culvert - Wongalea Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5244.2598	85	\$1,315,009	3
* Stormwater Pipe - Network 23 from E019 to E005	35	2057	Stormwater Assets	Stormwater Pipe	<1m	FC 450	Standard Cost - Standard Life	5328.5589	96	\$1,320,338	3
* Culvert - Pollen Creek Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	5400.0299	81	\$1,325,738	3
* Stormwater Pipe - Network 23 from E005 to E101	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	5416.7859	56	\$1,331,155	3
* Stormwater Pipe - Network 8 from C080 to C081	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	5425.3757	1	\$1,336,580	3
* Stormwater Pipe - Network 2 from W046 to W042	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	5564.4132	46	\$1,342,144	3
* Stormwater Pipe - Network 23 from E017 to E009	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	5602.1208	09	\$1,347,746	3
* Stormwater Pipe - Network 23 from E033 to E007	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	5602.1208	09	\$1,353,349	3
* Stormwater Pipe - Network 2 from W043 to W045	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	5692.8227	83	\$1,359,041	3
* Culvert - Corrong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5758.4030	11	\$1,364,800	3
* Culvert - Corrong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5758.4030	11	\$1,370,558	3
* Stormwater Pipe - Network 5 from C119 to C118	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	5778.4291	4	\$1,376,337	3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5809.8173	24	\$1,382,146	3
* Culvert - Romani Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5809.8173	24	\$1,387,956	3
* Stormwater Pipe - Network 23 from E115 to E035	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	5833.4617	99	\$1,393,790	3
* Culvert - Corrong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5861.2316	36	\$1,399,651	3
* Culvert - Corrong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	5861.2316	36	\$1,405,512	3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
								5861.2316			
* Culvert - MR 514	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	36	\$1,411,373		3
* Stormwater Pipe - Network 8 from C347 to C232	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	5943.5271	16	\$1,417,317	3
* Stormwater Pipe - Network 8 from C132 to C133	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	6155.7959	41	\$1,423,473	3
* Stormwater Pipe - Network 8 from C264 to C263	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	6277.7995	6	\$1,429,751	3
* Stormwater Pipe - Network 23 from E118 to E122	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	6458.4755	63	\$1,436,209	3
* Stormwater Pipe - Network 8 from C096 to C057	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	6474.1991	8	\$1,442,683	3
								6478.2033			
* Culvert - Corrong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	88	\$1,449,161		3
* Stormwater Pipe - Network 2 from W048 to W044	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	6591.6895	38	\$1,455,753	3
								6732.7296			
* Twynam	27	2049	Stormwater Assets	Urban Culvert	RCP	300	Standard Cost - Standard Life	88	\$1,462,486		3
* Stormwater Pipe - Network 5 from C352 to C108	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	6848.5086	11	\$1,469,334	3
								6889.5178			
* Culvert - MR 514	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	88	\$1,476,224		3
								6923.1153			
* Culvert - Clearview Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	6	\$1,483,147		3
								6923.1153			
* Culvert - Jerilderie Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	6	\$1,490,070		3
* Stormwater Pipe - Network 23 from E021 to E022	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	6959.1562	84	\$1,497,029	3
* Stormwater Pipe - Network 8 from C065 to C063	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	6959.1562	84	\$1,503,988	3
								7061.5776			
* Culvert - Rubbish Tip Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	67	\$1,511,050		3
* Stormwater Pipe - Network 5 from C350 to C111	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	7062.5245	05	\$1,518,112	3
* Culvert - Old Thelangerin Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	7557.9039	52	\$1,525,670	3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 23 from E022 to E129	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	7655.0719	12	\$1,533,325	3
* Culvert - MR 319	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	7712.1468	9	\$1,541,038	3
* Culvert - Yurdyilla Road	27	2049	Stormwater Assets	Rural Culvert	RCP	750	Standard Cost - Standard Life	7895.6094	47	\$1,548,933	3
* Stormwater Pipe - Network 23 from E037 to E036	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	7918.5880	81	\$1,556,852	3
* Stormwater Pipe - Network 5 from C117 to C118	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	8207.7279	22	\$1,565,060	3
* Culvert - Corrong Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	8446.2007	39	\$1,573,506	3
* Stormwater Pipe - Network 23 from E108 to E115	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	8680.7467	25	\$1,582,186	3
* Stormwater Pipe - Network 8 from C048 to CHW20	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 450	Standard Cost - Standard Life	8910.0494	68	\$1,591,097	3
* Stormwater Pipe - Network 8 from C062 to C060	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	9108.0505	68	\$1,600,205	3
* Stormwater Pipe - Network 8 from C069 to C347	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	9131.3448	15	\$1,609,336	3
* Stormwater Pipe - Network 23 from E024 to E023	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	9394.8609	84	\$1,618,731	3
* Stormwater Pipe - Network 2 from W005 to W016	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 450	Standard Cost - Standard Life	9412.3316	69	\$1,628,143	3
* Stormwater Pipe - Network 2 from W047 to W046	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	PVC <300	Standard Cost - Standard Life	9590.6782	47	\$1,637,734	3
* Stormwater Pipe - Network 8 from C092 to C061	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	9643.8182	48	\$1,647,378	3
* Stormwater Pipe - Network 8 from C371 to C373	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	10272.762	92	\$1,657,650	3
* Culvert - Nap Nap Road	27	2049	Stormwater Assets	Rural Culvert	RCP	450	Standard Cost - Standard Life	10282.862	52	\$1,667,933	3
* Culvert - Sidonia Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	10384.673	04	\$1,678,318	3
* Stormwater Pipe - Network 5 from C126 to C125	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	11273.833	18	\$1,689,592	3



Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 8 from C373 to C259	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	11321.00403	\$1,700,913		3
* Stormwater Pipe - Network 5 from C274 to CHGP8	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	11478.2402	\$1,712,391		3
* Culvert - Pollen Creek Road	27	2049	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	11721.24155	\$1,724,112		3
* Stormwater Pipe - Network 8 from C259 to C258	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	12028.56678	\$1,736,141		3
* Stormwater Pipe - Network 2 from W042 to W045	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	12590.54049	\$1,748,731		3
* Stormwater Pipe - Network 8 from C232 to C257	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	13179.88494	\$1,761,911		3
* Stormwater Pipe - Network 23 from E023 to E022	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	13396.37585	\$1,775,308		3
* Stormwater Pipe - Network 5 from C123 to C120	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	13697.01722	\$1,789,005		3
* Culvert - Old Thelangerin Road	27	2049	Stormwater Assets	Rural Culvert	RCP	525	Standard Cost - Standard Life	13716.47321	\$1,802,721		3
* Stormwater Pipe - Network 23 from E103 to E102	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	14125.04901	\$1,816,846		3
* Stormwater Pipe - Network 3 from CHW12 to C271	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	14151.25504	\$1,830,997		3
* Stormwater Pipe - Network 5 from C109 to X	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	14347.80025	\$1,845,345		3
* Stormwater Pipe - Network 8 from C258 to C067	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	14505.03641	\$1,859,850		3
* Culvert - Sidonia Road	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	14953.92918	\$1,874,804		3
* Stormwater Pipe - Network 5 from C120 to C119	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	14981.11259	\$1,889,785		3
* Stormwater Pipe - Network 23 from E101 to E007	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	15139.22229	\$1,904,924		3
* Stormwater Pipe - Network 5 from CFGP8 to CHW16	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	15304.32026	\$1,920,229		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 5 from C125 to C123	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	15658.10164	\$1,935,887		3
* Stormwater Pipe - Network 5 from C111 to C110	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	17217.3603	\$1,953,104		3
* Culvert - MR 514	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	17307.7884	\$1,970,412		3
* Stormwater Pipe - Network 23 from E122 to E036	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	17361.49345	\$1,987,774		3
* Culvert - Boxyards Road	27	2049	Stormwater Assets	Rural Culvert	RCP	1050	Standard Cost - Standard Life	17576.77179	\$2,005,350		3
* Stormwater Pipe - Network 23 from X to E101	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	18093.80634	\$2,023,444		3
* Stormwater Pipe - Network 8 from C266 to C264	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	18548.04415	\$2,041,992		3
* Stormwater Pipe - Network 8 from C131 to C133	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	19104.1943	\$2,061,096		3
* Stormwater Pipe - Network 5 from C116 to C117	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc <300	Standard Cost - Standard Life	19261.43047	\$2,080,358		3
* Stormwater Pipe - Network 8 from C263 to C235	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 300	Standard Cost - Standard Life	19946.28133	\$2,100,304		3
* Stormwater Pipe - Network 5 from C129 to C306	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc <300	Standard Cost - Standard Life	20054.89076	\$2,120,359		3
* Stormwater Pipe - Network 8 from C067 to C092	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	20117.49404	\$2,140,476		3
* Stormwater Pipe - Network 8 from C133 to C256	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	20519.3198	\$2,160,996		3
* Stormwater Pipe - Network 8 from C257 to C067	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	20973.55762	\$2,181,969		3
* Stormwater Pipe - Network 2 from FGP12 to WHW2	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 750	Standard Cost - Standard Life	21605.41407	\$2,203,575		3
* Stormwater Pipe - Network 5 from C106 to X	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	21921.34229	\$2,225,496		3
* Stormwater Pipe - Network 23 from E036 to E038	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	23472.73914	\$2,248,969		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 2 from W016 to W014	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	23621.82232	\$2,272,591		3
* Stormwater Pipe - Network 8 from C054 to C089	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	23661.13137	\$2,296,252		3
* Stormwater Pipe - Network 2 from W058 to W017	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	24342.48809	\$2,320,594		3
* Stormwater Pipe - Network 8 from C057 to C054	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	27222.82173	\$2,347,817		3
* Stormwater Pipe - Network 3 from C115 to C114	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 300	Standard Cost - Standard Life	27488.81291	\$2,375,306		3
* Stormwater Pipe - Network 23 from E106 to E101	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	27836.62514	\$2,403,143		3
* Stormwater Pipe - Network 3 from C348 to C271	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	27859.91938	\$2,431,002		3
* Stormwater Pipe - Network 23 from E009 to E010	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	29861.76873	\$2,460,864		3
* Stormwater Pipe - Network 23 from E007 to E009	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 600	Standard Cost - Standard Life	29922.91613	\$2,490,787		3
* Stormwater Pipe - Network 23 from E038 to EHW1	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	30378.02748	\$2,521,165		3
* Culvert - MR 319	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	31154.01912	\$2,552,319		3
* Stormwater Pipe - Network 2 from W017 to W015	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	32029.58959	\$2,584,349		3
* Culvert - MR 319	27	2049	Stormwater Assets	Rural Culvert	RCP	600	Standard Cost - Standard Life	32192.48642	\$2,616,541		3
* Stormwater Pipe - Network 23 from E116 to E115	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	33386.47948	\$2,649,928		3
* Stormwater Pipe - Network 23 from E130 to E129	35	2057	Stormwater Assets	Stormwater Pipe	<1m	Conc 375	Standard Cost - Standard Life	34795.78142	\$2,684,724		3
* Stormwater Pipe - Network 2 from W045 to W005	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	38200.23562	\$2,722,924		3
* Stormwater Pipe - Network 5 from C110 to C109	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	38260.80066	\$2,761,185		3

Asset Name	WAvg- RUL (Rounded )	Year (base 2022)	Asset Class	Asset Type	Component	Component Type	Component Sub Type	Gross	Cumulative Total	Financial Year (AMP Budget)	Consumption Score
* Stormwater Pipe - Network 2 from W015 to W016	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	39236.247	25	\$2,800,421	3
* Culvert - Boxyards Road	27	2049	Stormwater Assets	Rural Culvert	RCP	900	Standard Cost - Standard Life	41167.287	38	\$2,841,588	3
* Stormwater Pipe - Network 2 from W044 to W042	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 375	Standard Cost - Standard Life	41947.115	24	\$2,883,535	3
* Stormwater Pipe - Network 23 from E034 to E118	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 600	Standard Cost - Standard Life	43750.963	49	\$2,927,286	3
* Stormwater Pipe - Network 5 from C107 to C274	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	52608.600	9	\$2,979,895	3
* Stormwater Pipe - Network 8 from C060 to C057	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	53576.768	04	\$3,033,472	3
* Stormwater Pipe - Network 23 from E003 to E005	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 450	Standard Cost - Standard Life	56255.606	45	\$3,089,727	3
* Stormwater Pipe - Network 2 from W014 to FGP12	35	2057	Stormwater Assets	Stormwater Pipe	2m-3m	Conc 600	Standard Cost - Standard Life	68543.321	73	\$3,158,270	3
* Stormwater Pipe - Network 5 from C108 to C107	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	76999.861	32	\$3,235,270	3
* Stormwater Pipe - Network 5 from C272 to C111	35	2057	Stormwater Assets	Stormwater Pipe	1m-2m	Conc 750	Standard Cost - Standard Life	90869.401	56	\$3,326,140	3