Urban Drainage Asset Management Plan Summary

This Asset Management Plan Summary document presents the key information relevant to the urban drainage assets contained in Scenic Rim Regional Council's Urban Drainage Asset Management Plan.

Urban Drainage Asset Portfolio

Council's Urban Drainage Asset Portfolio facilitates effective and efficient conveyance of stormwater run-off and provides flood protection to people and properties throughout the Scenic Rim region. As at June 2020, it has a total replacement value of $48.4 Million and makes up around 5% of the overall infrastructure asset base which is valued at approximately $1 Billion.

The composition of the urban drainage network is summarised as follows:

Asset Sub-Class	Asset Type	Number of Assets	Approximate Length (kms)	Replacement Value (June 2020)
Stormwater Drains	Stormwater Pipes	N/A	83	$38,935,004
	Open Channel Drains	14	0.7	$490,000
Stormwater Structures	Pits	2,100	N/A	$8,413,736
	End Structures	249	N/A	$613,585
			Total	**$48,452,325**

Service Aspirations

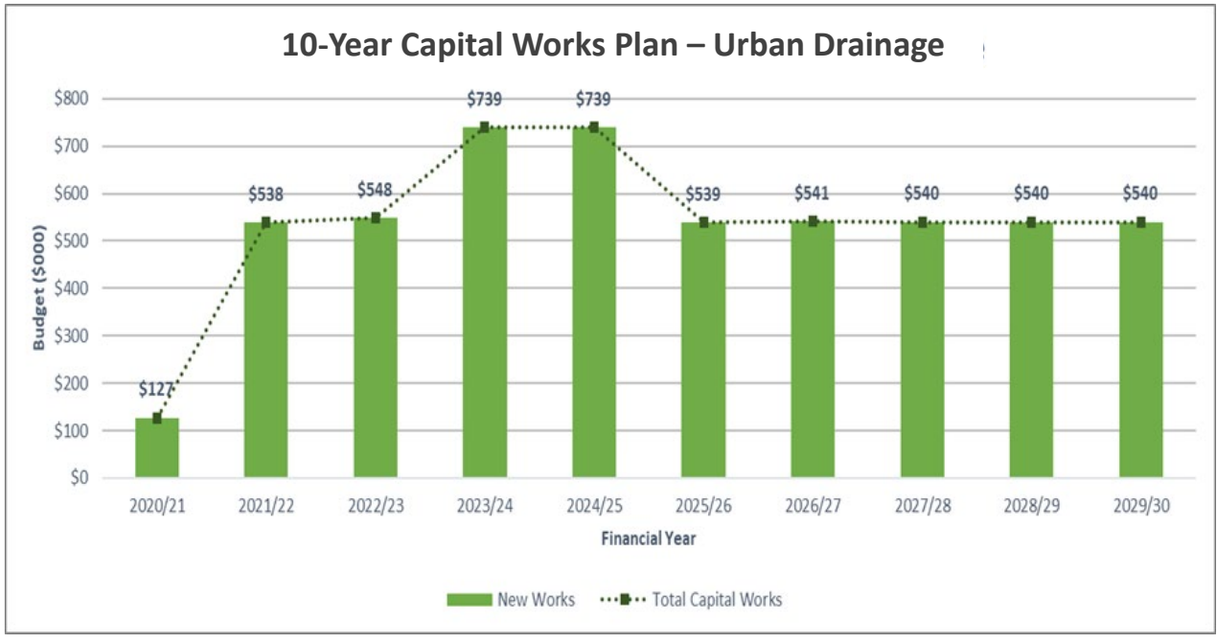
In line with the Scenic Rim Regional Council Corporate Plan 2018-2023 (Scenic Rim 2023), the Urban Drainage Asset Portfolio supports the accessibility and serviceability of the Scenic Rim region through the sustainable provision and effective management of urban stormwater drainage assets.

Council's commitment to the community includes:

- Ensuring a well-maintained and functioning urban drainage network that supports continued access to Council's transport network with minimal disruption during minor rainfall events
- Enhancing the resilience of critical stormwater drainage assets to improve the level of flood protection to people and properties
- Provision and maintenance of an affordable infrastructure network through whole of lifecycle asset management
- Investing on prioritised urban stormwater drainage capital programs and projects that deliver the greatest stormwater mitigation benefits to the community

10-Year Capital Investment Plan and Key Projects

Capital investment in the urban drainage network is critical to sustaining the service levels provided to the community. The 10-year forecast capital expenditure is summarised below.



The capital works plan over the next 10 years is solely focussed on the construction of new assets to address capacity deficiencies in the network. Identified renewal, replacement and repair works are currently minor in nature and to be delivered through the maintenance works plan. The total capital investment value planned for the next 10 years is $5.4 Million.

Key stormwater drainage capital works projects planned to be delivered by Council in the short-term include:

- Brisbane Street Drainage Improvement Works – Component of the Beaudesert Town Centre Revitalisation Project
- Moffat Street/Wiss Street, Kalbar Drainage Improvement Works
- Golf Course Estate (Ocean View Parade), Tamborine Mountain Drainage Improvement Works

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Managing Risks

Council approaches risk management in accordance with its Risk Management Policy (CM03.09CP) which is consistent with the Risk Management Standard AS/NZS ISO 31000:2009.

Council continues to invest in condition assessment programs across its asset portfolio to ensure that any potential risks to the structural integrity, functionality and serviceability of assets are captured, managed and/or mitigated. Urban drainage asset-related risks are monitored through robust condition inspections.

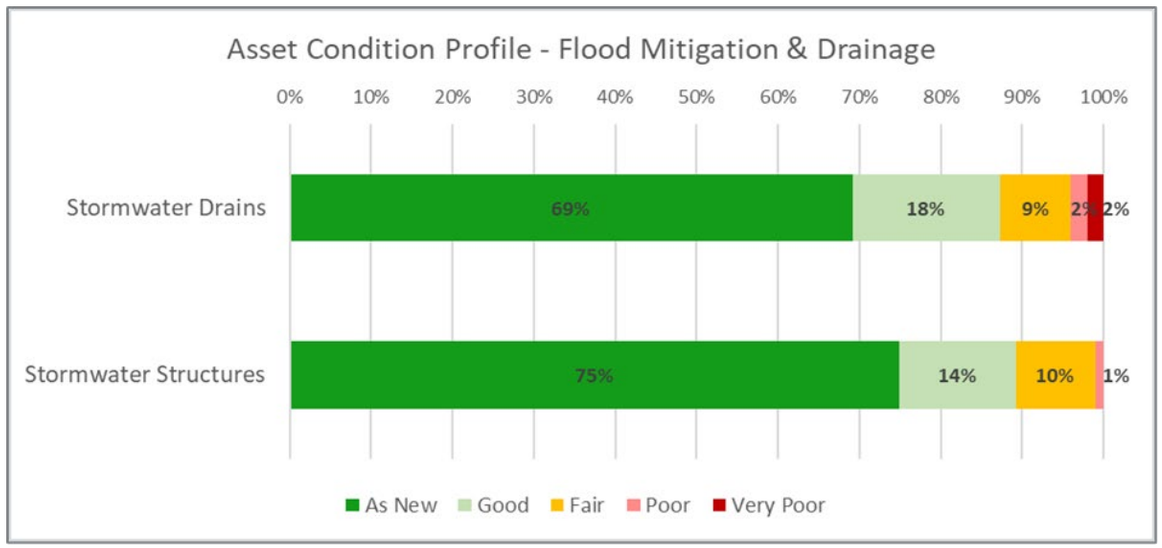
The scope of the recently completed (FY2020/21) condition assessments for this asset class included:

- Closed Circuit Television (CCTV) inspection of approximately 35 kilometres of stormwater pipes
- Inspection of about 1,500 stormwater pits

The next round of condition inspections of urban drainage assets is scheduled in FY2025/26.

Asset Condition Profile

The condition and performance of the various assets within the urban drainage network are continually monitored and analysed to enable Council make informed decisions in relation to infrastructure investments. The condition profiles of the urban drainage assets are presented below.



Asset Data Confidence Levels

Central to Council's data confidence level assessment is the integrity and reliability of the asset register with respect to the two fundamental parameters:

- Physical Attribute Data - allows assets to be identified and involves details such as the asset description, location, type, material and size. This also considers the degree of completeness of the asset register and whether all relevant assets are captured and known to the organisation.

- Financial Valuation Data - allows assets to be financially valued and may involve the assets' replacement value, useful life, written down value, depreciation profile and condition. This also factors in direct linkage of financial asset data to the physical attribute data.

The data confidence levels relevant to the urban drainage assets are summarised as follows:

Asset Sub-Class	Asset Sub-Type	% of Total Asset Base by Replacement Value	Data Confidence Level (%)	Overall Data Confidence Level (Weighted by Replacement Value)
Stormwater Drains	Stormwater Pipes	81%	75% (Moderate)	**74.7%**
	Open Channel Drains	1%	40% (Low)	
Stormwater Structures	Pits	17%	75% (Moderate)	
	End Structures	1%	75% (Moderate)	

The overall data confidence level for the Urban Drainage Asset Class is 74.7% (moderate confidence level). It is important to note that whilst open channel drain assets have a low confidence level rating, these make up a very small portion of the asset base (1%).

Further improvements to the current confidence levels are to be achieved by integrating the urban drainage datasets across existing asset registers (financial asset register and operational/GIS asset register) as well as undertaking asset capture and validation of existing open drains. These actions have been included as part of the Asset Management Improvement Plan.

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Key Opportunities

- Continue existing and pursue new partnership and funding agreements with the Federal and State Governments to deliver prioritised urban drainage network infrastructure works.

  Key examples include:
  - Local Government Grants and Subsidies Program (State)
  - Queensland Disaster Resilience Fund (State)

- Increased infrastructure planning, programming and delivery efficiencies through further advancement in Asset Management and Maintenance Management capabilities across the organisation.

- As part of the planned infrastructure strategy reviews, engage and consult with the Scenic Rim community to further understand, develop and agree on sustainable levels of service across the urban drainage network infrastructure activities.

- Improved coordination and implementation of the infrastructure standards and specifications in the Scenic Rim Planning Scheme 2020 to ensure third-party contributed assets are fit for purpose, sustainable and will not lead to premature capital and/or maintenance intervention works.

- Implementation and performance monitoring of the Local Government Infrastructure Plan (LGIP) to ensure that the infrastructure network continues to have adequate capacity to support growth in the region.

- Review and alignment of Council's flood classification with the recently published Flood Classifications in Queensland Best Practice Guide by the Queensland Reconstruction Authority

Key Improvement Actions

Key asset management improvement actions for the Urban Drainage Asset Portfolio to be progressed in the in the next 24 months include the following:

- Determine critical urban drainage assets that are likely to be frequently impacted by natural disasters and develop a suite of potential infrastructure intervention options to increase asset resilience.

- Undertake further analysis and investigations to determine network deficiencies in relation to stormwater conveyance capacities.

- Further develop the technical levels of service for maintenance works as part of Council's overarching Service Level Catalogue development.

- Progress the reconciliation and integration of Council's asset registers (financial asset register, operational/GIS asset register, stand-alone asset maintenance spreadsheet registers) to help establish a "single source of truth" of Council's asset information.

- Further improve the asset datasets, particularly open channel drain data, through field asset capture, analysis and validation.

- Implement the Asset Design and As-Constructed (ADAC) standard as Council's as-constructed data delivery mechanism for developer contributed assets and infrastructure assets delivered through external contractors.

- Implement the Enterprise Asset Management and Maintenance Management System (TechnologyOne EAM) platform.