



Municipal Asset Management Plan Final Report 2022

Council Meeting – June 13, 2022





ASSET MANAGEMENT PLAN 2022



Kincardine Asset Management Plan 2022 – Report to Council (June 13, 2022)

Thank you to the team who contributed to the completion of the Asset Management Plan 2022

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Asset Management





Essential Questions

What is it worth?

What is its condition and expected remaining service life?

What is the level of service expectation, what needs to be done?

When do you need to do it?

How do you ensure long-term affordability?

Asset Inventory

Condition

LOS

Analysis and Strategy Development

Strategic Asset Management Policy

Kincardine GG.2.22: August 1, 2018 (Resolution #08/01/18-02)

VISION

To **proactively manage** its assets to best serve the Municipality's objectives, including:

- Prioritizing the need for existing and future assets to effectively deliver services
- Supporting sustainability and economic development, and
- Maintaining prudent financial planning and decision making.

OBJECTIVES

- Provide a consistent framework for implementing asset management throughout the organization
- Provide transparency and accountability and to demonstrate to stakeholders the legitimacy of decision-making processes which combine strategic plans, budgets, service levels and risks

The Municipality will use a **service-based (qualitative)** perspective when applying this policy to municipal assets, rather than a monetary value (quantitative).

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Regulatory Alignment

Phase 2 - July 1, 2022: approved asset management plan (AMP) for core assets (roads, bridges and culverts, water, wastewater and stormwater management) that discusses current levels of service and the cost of maintaining those services.

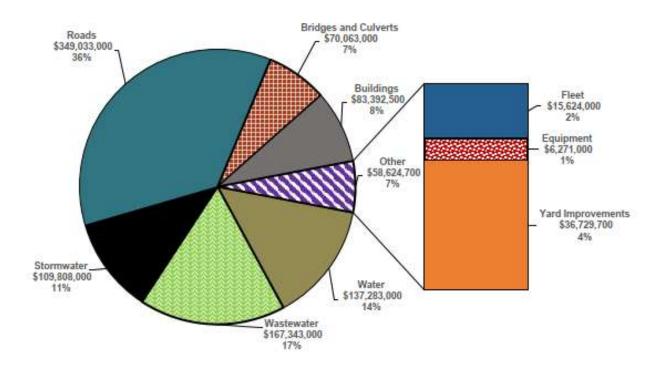
O. Reg. 588/17: Asset Management for Municipal Infrastructure and amended by O. Reg. 193/21

Phase 3 - July 1, 2024: approved AMP for all infrastructure assets that discusses current levels of service and the cost of maintaining those services.

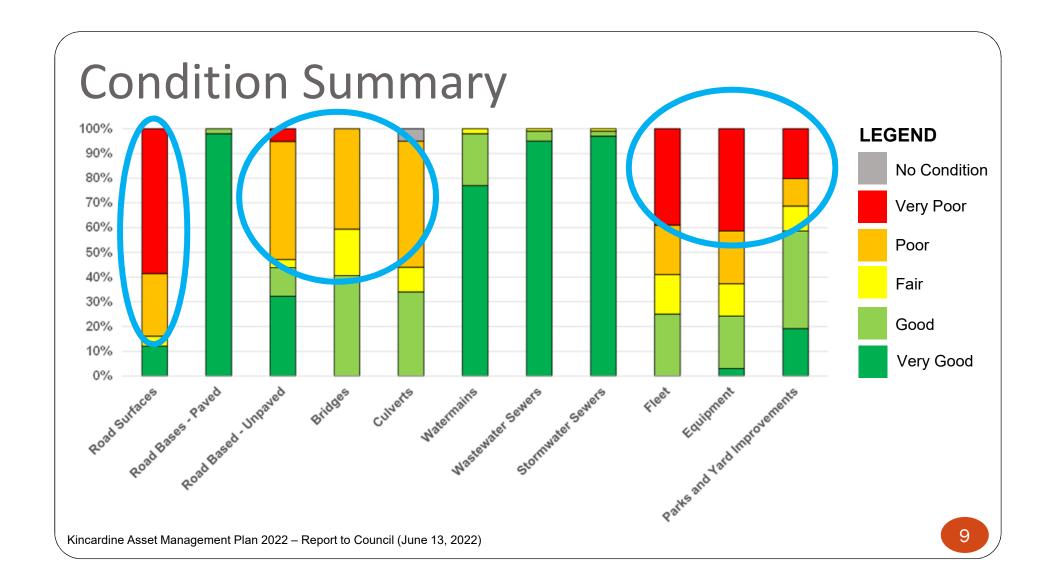
Phase 4 - July 1, 2025: approved AMP for all assets that builds upon the requirements set out in 2024. This includes a discussion of proposed levels of service, what activities will be required to meet proposed levels of service, and a strategy to fund the activities.

Current Replacement Value

\$975.5 million

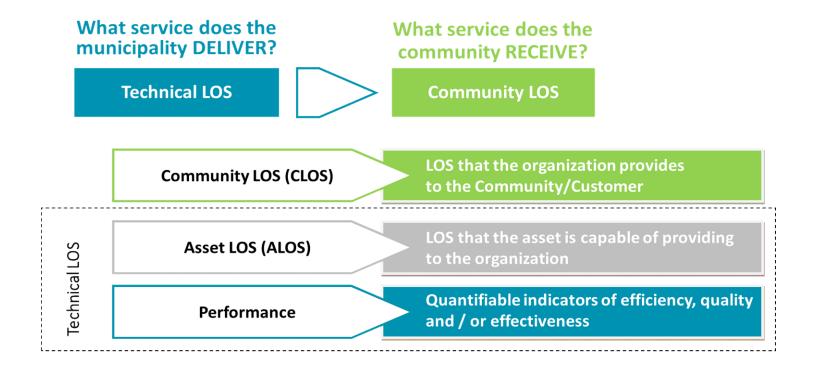


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Levels of Service

The parameters, or combination of parameters, that reflect the social, political, environmental and economic **outcomes that the organization delivers**.



Proposed Levels of Service

Maintain current LOS

Outcomes that the organization delivers

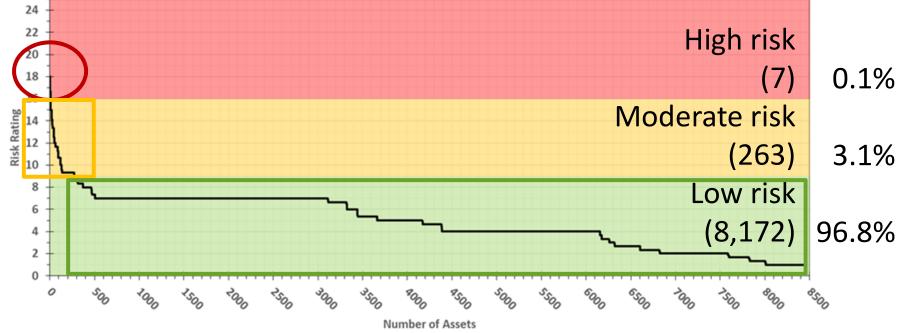
Transportation Services: Roads, Bridges / Culverts

Asset Service	LOS Parameter	LOS Measure	Current LOS Delivered	2031 Proposed LOS
Paved Roads	Quality	Average pavement condition index (PCI)	53 (fair)	53 (fair) or better
Unpaved Roads	Quality	Average surface condition	67 (fair)	67 (fair) or better
Bridges	Quality	Average bridge condition index (BCI) value	63.5 (fair)	63.5 (fair) or better
Structural Culverts	Quality	Average bridge condition index (BCI) value	56.4 (poor)	56.4 (poor) or better

See Section 1.2.4 for other asset categories







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Risk Profile

LIKELIHOOD = (A + B + C) / 3

What increases LIKELIHOOD of non-delivery of service?

Factors	LOW	MODERATE	HIGH
A – Condition	Very Good (1)	Good (2); Fair (3)	Poor (4); Very Poor (5)
B – Performance	Always Reliable (1)	Usually Reliable (3)	Not Reliable (5)
C – Climate Change	, ,	recovery; mitigation plan not	,_,
	place (1)	in place (3)	(5)

Risk Profile

CONSEQUENCE = D + E

What increases the CONSEQUENCE of non-delivery (or failure of an asset)?

Factors	Low	Moderate	High
D – Impact	Low or no impact (0)	Moderate impact (1)	High impact (2)
E – Importance of the asset in delivering service	Low importance (1)	Moderate importance (2)	High importance (3)

Risk Profile

Compare between asset categories

Help prioritize projects for investment to improve condition, extend useful life.

Help inform the Asset Management Strategy

Risk = LIKELIHOOD

A - Condition

B – Current Performance

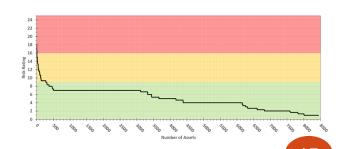
C – Climate Change Vulnerability

CONSEQUENCE

D – Impact of Failure

E – Importance of Asset (for delivering service)

$$Risk = (A + B + C) / 3 X (D + E)$$



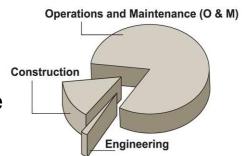
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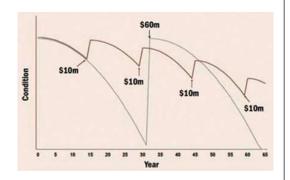
Asset Management Strategies

Lifecycle Approach



- Construction
- Operation and Maintenance
- Renewal / Rehabilitation
- Replacement
- Disposal
- Expansion Activities





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Financing Strategy

Annual Lifecycle Costs and Current Capital Funding

- Average annual lifecycle cost of assets (at proposed levels of service) estimated at \$20.9 million
- Current capital funding is approximately \$9.7 million
- Annual lifecycle funding gap estimated at \$11.2 million
- Financing strategy designed to close the annual lifecycle funding gap by 2032



Asset Category	Annual Lifecycle Cost	Current Capital Funding Capacity
Bridges & Culverts	1,894,801	
Roads	5,632,000	
Stormwater Mains	1,356,249	
Buildings	2,634,049	
Fleet	1,264,144	
Equipment	514,695	
Parks & Yard Improvements	1,097,148	
Total Tax Supported	14,393,087	6,738,138
Watermains	1,700,629	
Buildings	1,199,015	
Fleet	52,999	
Equipment	7,531	-
Yard Improvements	3,703	
Total Water	2,963,876	1,504,426
Sanitary Sewers	1,964,293	
Buildings	1,525,184	
Fleet	52,999	
Equipment	7,531	
Yard Improvements	3,703	
Total Wastewater	3,553,710	1,488,690
Grand Total	20,910,673	9,731,254

Financing Strategy

Impact Analysis

- The estimated impact on property tax bills to achieve full lifecycle funding by 2032 is an increase of approximately 5.3% annually from 2023 to 2032
 - 2022 increase was 4.7% (\$96 per average household)
 - Impacts could be mitigated by reviewing existing user fees (e.g., Parks & Recreation fees, building permit fees, etc.), and exploring new funding sources (e.g., stormwater fees)
- For water/wastewater, the total revenue generated form user fees would need to increase by approximately 7.9% annually to achieve full lifecycle funding by 2032
 - 2022 increase was 3% (\$31 per average household)
 - Impacts should be assessed in detail through a rate review to consider the effects of customer growth



Roadmap – Next Steps

Regulatory Compliance

- Annual Report to Council: current progress of asset management
- Full Update of AMP: by 2027
- Enhancements: green assets, assessment of vulnerabilities caused by climate change

Operationalizing Asset Management

- Policy and Governance
- People and Leadership
- Data and Information
- Planning and Decision-Making
- Contribution to Asset Management Practice

Recommendations in AMP 2022

- Condition Assessments: roads, bridges, buildings, pipes, stormwater
- Performance Data: expand collection of performance data to be able to track and report whether the Municipality is on target to meet the proposed LOS
- Financing Strategy: update Water and Wastewater Rate Study