

2023 Enterprise Asset Management Plan

Investments in Peel's Infrastructure



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Executive Summary

Maintaining existing assets in a state of good repair and building new infrastructure which meets current and future needs is critical to the success of the Region of Peel. The Region's infrastructure is necessary to provide service levels that the public expects, achieve Term of Council Priorities, and realize the vision of the Region of Peel as a **Community for Life**.¹

The Region's infrastructure has a replacement value of approximately **\$36.1 Billion**. The Region is committed to being a strong steward of the public's infrastructure assets. These assets allow the Region to provide high quality and affordable municipal services to the Peel community.

The Region uses a risk-based approach to asset management. This approach is integrated with the Region's Strategic Plan and the Long Term Financial Planning Strategy and supports the desired service outcomes and the long term goal of a Community for Life.

Current State of the Infrastructure

The Region's goal is to achieve an overall infrastructure status of '**Good**'. The 2023 Rating is in line with this goal due to several factors:

- The Region's comprehensive asset management policy and strategy for long range, strategic planning of its infrastructure requirements
- Steady and prudent levels of reinvestments to maintain state of good repair
- Council's priority to maintain the Region's assets in a state of good repair without incurring long term debt

Reinvestment Plan

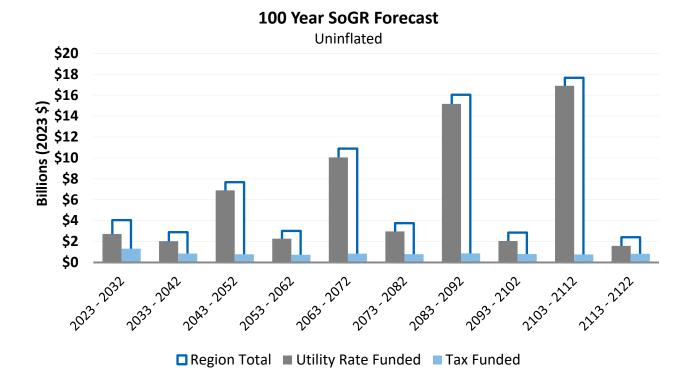
Reinvestments of **\$4,402.0 Million** are included in the 10-year Capital Plan. **\$2,661.0 Million** of this will be required to be funded through Utility Rates and **\$1,741.0 Million** will be required to be funded through Property Taxes unless alternate funding sources are identified or confirmed and validated for on-going availability.

These planned reinvestments are in line with the forecasted infrastructure reinvestment needs.

2023

- ¹ Appendix I *Line of Sight* shows the link between a single asset and the "Community for Life" vision of the Strategic Plan.
- ² Descriptions of the Infrastructure Risk Management Scores are included in Appendix II *Reading Guide*

Long Term Forecast

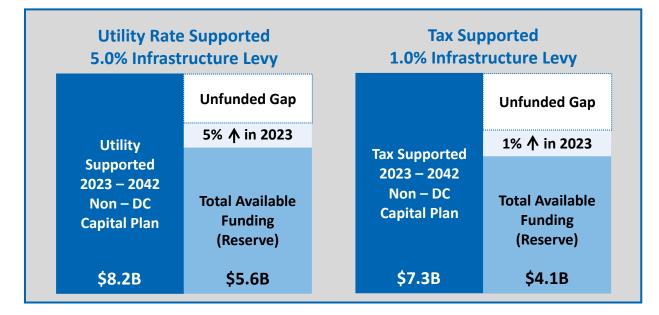


Infrastructure reinvestment needs at the Region of Peel are expected to increase steadily over the next 70 years. While the requirements for Tax funded infrastructure are expected to stabilize in 20 years, requirements for the Utility Rate funded infrastructure are expected to continue to grow. This is primarily because the bulk of the water and wastewater systems are relatively new and account for over 80% of the asset replacement values. As these systems age, they will require greater and more frequent reinvestments.

Financing Plan

The Region of Peel's Long Term Financial Planning Strategy promotes a "Pay as You Go" philosophy for state of good repair financing and discourages the use of debt to fund such work.

Council approved increases in the dedicated capital reserve contributions of 5.0% from the utility rates and 1.0% from the tax rate as part of the 2023 Budget.



Despite these increases in reserve contributions, infrastructure financing gaps remain. The unfunded gap (**\$2.6 Billion**) for utility rate supported programs may be closed within the next five years with continued infrastructure levy increases. The unfunded gap (**\$3.2 Billion**) for tax supported programs may be closed within the next eight years with continued infrastructure levy increases.

Although the unfunded gap may be closed in the short term the Long Term Forecast shows the infrastructure reinvestment needs at the Region of Peel are expected to increase steadily over the next 70 years.

Options and opportunities to further reduce the Region's unfunded infrastructure investment gap will be considered with Council and incorporated into future plans.

Emerging Risks and Challenges

The Region of Peel is a growing, thriving community and a major economic hub, that is facing a changing and dynamic environment especially as it continues the recovery stage of COVID-19.

Notwithstanding the infrastructure financing gap, and despite the '**Good**' rating of the Region's infrastructure, there are a number of challenges and unknown conditions underlying the Region's immense asset portfolio that result in increased service pressures and create infrastructure risks for which the organization must be prepared.

Major trends which are resulting in increased service pressures and more complex community issues are:



Growing and Rapidly Ageing Population

A rapidly growing and ageing population increases service demands and places stress on existing infrastructure, creating more demand for new infrastructure investment.



Ageing Infrastructure

Peel's infrastructure is ageing requiring increased levels of investment to keep them in a state of good repair.



Climate Change

Climate change leading to extreme weather events presents risks for effective and long-lasting infrastructure.



Changing Economy

Changes to economic conditions including inflation, energy costs, grants and subsidies may adversely affect the Financing Plan. Impacts of COVID-19 on the economy will have a long term effect on financial sustainability.



Rapidly Changing Technology

Rapidly changing technology in a changing and uncertain macro environment challenges how quickly we adapt in the way we connect with residents and deliver services.



Changing Legislative Environment

Constantly evolving legislation and regulations impact infrastructure decisions.



Continued Pandemic Recovery

Continued COVID-19 pandemic recovery can have multi-year implications on how the Region operates and maintains assets. COVID-19 may also cause permanent impacts on asset design and delivery of capital programs.

Climate Change

A More Resilient Region is a more Resilient Community for Life

The Region of Peel is experiencing the impacts of climate change. Anticipated future impacts, including severe heat waves, threats to the water supply, extreme storms, and adverse health effects, could disrupt society and the economy. Integrating climate change into asset management means taking stock of the physical and financial impacts climate change will have on the condition, performance, and longevity of assets and service delivery, and using this information to identify and prioritize investment needs, both in the near and long-term.

Ontario Regulation 588/17: Asset Management Planning for Municipal Infrastructure, requires the Region to consider climate change in the development of its asset management policy and asset management plans, and will be supported by this approach.

The Region's Enterprise Asset Management Roadmap

The Region's Asset Management program is guided by industry best practices and regulatory requirements. As such, the program is continuously evolving to leverage opportunities and address challenges.

Anticipated improvements include:

- Staff are undertaking many technical studies and condition assessments to improve knowledge of the Region's infrastructure conditions.
- Asset Management planning process improvements are being undertaken across all services to improve investment forecasting and to manage risks to Regional services.
- Operations and maintenance costs have been added to services to provide a full lifecycle perspective on asset ownership. The data and modelling of operations and maintenance is a priority for improvement.
- An Enterprise Asset Management system will be introduced to support asset management functions across the organization.
- The assets supporting **Peel Information technology Infrastructure** and Green Infrastructure will be added to Enterprise Asset Management reporting in the 2023 reporting cycle.
- Engaging in the continuous improvement of asset management practices and strategies that can significantly impact asset lifecycle costs, management of risk, and service delivery performance. Continuous Improvement is also an industry best practice and a requirement of Ontario Regulation 588/17: Asset Management Planning for Municipal Infrastructure.

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Introduction

Building new infrastructure and maintaining existing assets in a state of good repair is critical to the success of the Region of Peel. Good infrastructure enhances the Region's ability to provide high quality and affordable municipal services to Peel's residents and businesses.

The Enterprise Asset Management Plan outlines the Region's corporate strategy and plan to achieve the Region's long-term infrastructure risk management goal of finding the balance between providing reliable, efficient services, and doing it at the lowest reasonable cost.¹

Overview of the Region's Approach

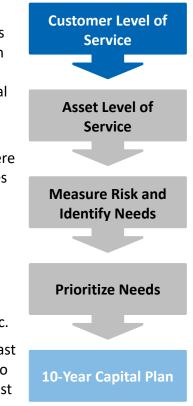
The Region uses a risk-based approach to asset management. Council has approved Asset Level of Service (ALOS) targets to manage the risks that may affect the Region's services. ALOS targets are specific to each type of asset and where and how it is being used. While some assets need to be kept in top shape to ensure residents of Peel receive critical services, others can be allowed to degrade without a significant decrease in the services delivered.²

The closer the assets are to meeting the ALOS targets, the less risk there is of not delivering the desired service outcomes. The Region measures its progress in managing the infrastructure to the ALOS targets using **Infrastructure Risk Management Ratings**.³

The Region's long-term goal is to maintain Peel's infrastructure portfolios at a minimum overall rating of '**Good**'. A rating of '**Good**' maintains the balance between having assets in an adequate state to support the Region's desired service outcomes and investing in infrastructure at rates that are reasonable and affordable to the public.

The Enterprise Asset Management Plan uses lifecycle models to forecast infrastructure condition, reinvestment needs, and asset related risks to service. The models are specific to the Region's assets and use the most recently available asset information.¹

- The Enterprise Asset Management Plan uses a **10-year** forecast to align with the Capital Plan and Budget.
- The Plan also uses a **20-year** forecast to coordinate with Master Plans, Development Charges horizons, and inform reserve contributions.
- A full **100-year** forecast is used to inform strategic decision making and ensure sustainability in the longer term, in line with the full lifecycles of the longest-lived infrastructure.



- ¹ Appendix III provides detail of the Region's Enterprise Asset Management Strategy
- ² All current Council approved Asset Level of Service targets are included as Appendix IV
- ³ Descriptions of the Infrastructure Risk Management Ratings are included in Appendix II

Strategic Connections to Asset Management

Enterprise Asset Management is an integrated part of the Region of Peel's annual, strategic, and long-term planning practices. Asset Management supports the strategic objectives of Regional Council, the delivery of services to the public, and the sustainability of the Region of Peel.

Alignment with The Strategic Plan



Enterprise Asset Management is central to sustainable service delivery and as such, is key to the achievement of the Region's 2015-2035 Strategic Plan and the 2018-2022 Term of Council Priorities.

- The Vision describes what we are working towards over the long-term.
- The Mission describes how we will deliver on our vision and the difference we want to make.
- Living, Thriving and Leading are the areas of focus we will improve through this plan.

The Region's **Strategic Plan** is available on the Region of Peel website under Strategic Plan.¹

Status of Regional Infrastructure Assets

Ongoing Asset Management Services at the Region of Peel fall under the **Leading** Area of Focus. Progress towards the 20-Year **Leading** outcomes is measured by tracking key indicators which include the **Status of Regional Infrastructure Assets.**

The **Status of Regional Infrastructure Assets** indicator is measured using the same Enterprise Asset Management processes described in this report.

Enterprise Asset Management processes have a direct link to the Strategic Plan's long-term outcome of being a government in which the community can trust that **"sustainability and long-term benefits to future generations are considered"**.

Contribution to Service Outcomes

The Region has a large portfolio of diverse services ranging from Water Supply to Income Support. Each service has a desired **Service Outcome**. Those services and Service Outcomes which are directly supported by infrastructure are included in this Enterprise Asset Management Plan. Enterprise Asset Management allows the Region to manage the asset related risk to meeting the desired Service Outcomes.

Asset Management Line of Sight

An important asset management principle is **Line of Sight**. Line of sight in asset management, achieves two important things:

- 1. People doing the physical work on the infrastructure can see how the work they do supports the strategic goals of the Region.
- 2. People setting the strategic goals of the Region can see how their decisions influence how we manage our infrastructure.

Enterprise Asset Management at the Region enables this line of sight, connecting the Service Outcomes down to the assets that support them.¹

Asset Management as a Service

On top of enabling the line of sight for other services, Asset Management is a service itself. The Region tracks the progress towards the outcomes for each service using different metrics.



Asset Management

The Region of Peel builds, maintains, and monitors infrastructure

Target: Good; most assets in the portfolio are achieving the desired targets.³

- ¹ Appendix I provides an example of the Line of Sight between a single asset and the Strategic Plan
- ² Descriptions of the Infrastructure Risk Management Ratings which are used as the metric towards tracking the service outcome of Asset Management are included in Appendix II

The Long Term Financial Planning Strategy

| Long | Term Financial Planning Str | ategy | | |
|---|--|---|--|--|
| Financial Sustainability | Financial Vulnerability | Financial Flexibility | | |
| Respect the taxpayer. Maintain assets. Ensure Capital Plan is sustainable. | Users pay where appropriate. Work with local municipalities to support economic viability of the | Mitigate significant fluctuations in tax and utility rates. Borrow only for substantial long-term assets at | | |
| Deliver value for money. | community. Prudently invest. | affordable rates. | | |
| Foundation for Long-term Sustainability | | | | |

The Long Term Financial Planning Strategy (LTFPS) provides a framework through which the Region endeavors to achieve the long-term financial sustainability of Regional services and is available on the Region's website.¹ The LTFPS strives to maintain a balance between three pillars: Financial Sustainability, Financial Vulnerability, and Financial Flexibility.

Asset Management supports all three pillars of the Strategy:



1. Financial Sustainability

The Region's ability to provide and maintain planned service levels and infrastructure assets without unplanned increases in rates or disruptive cuts to services.



2. Financial Vulnerability

The degree to which the Region is dependent on external funding sources that it cannot control; it is the level of risk that could impact the ability to meet existing financial obligations and commitments, including the delivery of Regional services.



3. Financial Flexibility

The Region's ability to change either debt levels or taxes and utility rates to meet financial obligations and ensure intergenerational equity. The **Financial Scorecard** provides indicators of the strength of the three financial pillars.¹

| Financial Pillar | Indicator |
|-----------------------------|------------------------------------|
| Financial Sustainability | Asset Health Score Target: Good |
| | |

The **Asset Health Score** used as an indicator for **Financial Sustainability** is the same **Risk Management Rating** provided in this report.²

To realize the objectives of the LTFPS, the Region of Peel takes an integrated financial management approach which combines the longterm financial planning and sustainability policies under the Financial Management By-Law. This ensures that asset management needs are not looked at in isolation, but rather planned and balanced with other financial management activities as can been seen in the graphic below.

The Asset Management Policy specifically supports the objectives of the Long Term Financial Planning Strategy³. This integrated approach ensures longterm capital projections which result from Enterprise Asset Management are directly input into other financial tools such as reserve management.



- ¹ Financial Scorecard
- ² Descriptions of the Infrastructure Risk Management Ratings which are used as the metric towards tracking the service outcome of Asset Management are included in Appendix II
- ³ Long Term Financial Planning Strategy

Climate Change Master Plan

In 2019 Region of Peel Council approved its first 2020 – 2030 Climate Change Master Plan¹. The Region will lead by example, influence best practices, and transform to a climate resilient future.

The actions in the plan will reduce the Region's corporate greenhouse gas (GHG) emissions and ensure its services, operations, and infrastructure can adapt to the changing climate. In doing so, the Region will be resilient in the face of climate change.

The Region will apply an integrated and systematic approach to combat the impacts of climate change by:

- Increasing readiness to respond to extreme events
- Proactively protecting the Regions existing infrastructure assets to maintain service delivery
- Reducing the impacts of heat and flooding through green infrastructure
- Planning and building assets and service delivery taking future climate projections into consideration
- Integrating climate change into the asset management planning process, by applying climate design and performance criteria to new and state of good repair infrastructure work
- Investing in innovative and sustainable approaches to finance action on climate change
- Monitoring, reporting, and understanding the progress of addressing Regionally-funded climate change work

The Asset Management Policy

Region of Peel Council has approved an Asset Management Policy. The Policy establishes formal management controls for the responsible stewardship of capital infrastructure.

The Asset Management Policy is implemented through the Enterprise Asset Management Strategy ¹.

The policy framework is divided into four key areas:

- Levels of Service Measures of quality or quantity of service which serves as a desired target for a particular activity, asset or service area as determined by Council;
- Risk Management Measures risks to assets and by extension to the services the assets provide is fundamental to the Enterprise Asset Management Strategy;
- Life Cycle Management Defines how assets are managed throughout the asset life cycle to maximize the assets' value to the organization and the service to clients; and
- 4. Corporate Reporting on Asset Management Defines the requirements of corporate level reporting which is undertaken annually to give an organization-wide perspective on the Region of Peel's infrastructure needs and priorities to enable better, more informed strategic planning and decision making.

The Enterprise Asset Management Plan and the Infrastructure Status and Outlook Report are updated annually for Council approval and are published on the Region's website ².

¹ Appendix III provides detail of the Region's Enterprise Asset Management Strategy

² <u>Corporate Reporting on Asset Management</u>

Non-Infrastructure Solutions

The Region ensures that growth is coordinated with existing infrastructure when additional service capacity is needed.

- Infrastructure investment is aligned with growth projections in the Official Plan¹. The Region is forecasted to grow to 2.3 million people and 1,070,000 jobs by 2051. Regional Council passed Bylaw 20-2022 to adopt a new Region of Peel Official Plan (Peel 2051), approved by Minister of Affairs and Housing in 2022. Peel 2051 is developed to ensure a continued vision for growth.
- Master Plans and Service Strategies look at growth needs and integrate new assets within existing infrastructure with the least economic and environmental impact.

The Region also coordinates with other levels of Government and agencies to deliver capital projects efficiently and effectively, including:

- Working with the Cities of Mississauga and Brampton and the Town of Caledon to minimize impact on residents during construction and optimize joint and overlapping infrastructure life
- Supporting delivery of large transit projects by coordinating infrastructure works with transit agencies
- Partnering with the Federal and Provincial Governments for funding and delivering supportive housing projects

Activities such as waste reduction and diversion initiatives, encouraging the use of transit supportive modes of transportation (e.g., walking, biking), and energy conservation practices also defer the need for capital reinvestment, while maintaining or improving services.

Operations and Maintenance Activities

Most of the value an asset provides to services happens during its operation throughout its life. Standard Operating Procedures are in place to extend the life of the assets, by ensuring that they are meeting legislative requirements, and that they are operating safely and with the least amount of wear-and-tear.

Maintenance is routinely performed, to ensure assets meet their intended life, as well as monitoring the condition and performance compared to standards.

Planned restorative maintenance activities extend the service life of the assets. Minor repairs such as replacement of parts and patching minor defects save capital expenditures by preventing more serious damage to assets.

Ongoing Operations and Maintenance activities are considered in Lifecycle Strategies, as they are essential to ensuring that assets are owned at the lowest cost. Opportunities to better operate and maintain assets are explored through continuous improvement processes.

Operations and Maintenance costs will be captured within Service Plans and will continue to be analyzed and optimized as business processes are improved and new tools, such as the Enterprise Asset Management System, are implemented.

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Pearson

Airport

International

Town of

Caledon

Region

of Peel

City of

Brampton

City of

Mississauga

Asset Management Reinvestment Plan The Region of Peel

Peel's Infrastructure

What Infrastructure Does the Region Own?

The Region of Peel is the second largest municipality in the Province of Ontario.

The Region owns and operates infrastructure assets including:

- Roads
- Bridges
- Pipes
- Pumping stations
- Reservoirs
- Treatment plants
- Waste management facilities
- Buildings
- Fleet
- Equipment
- Green Infrastructure

These assets support the Region in providing a variety of services to the community.

This plan breaks down the asset portfolio according to the service that is responsible for managing the assets.

The replacement, rehabilitation, and enhancement of assets is primarily funded through either property taxes or the utility rate.

The asset managing services supported by the **Utility Rate** are:

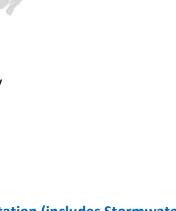
| Wastewater | Water Supply |
|------------|--------------|
| | |

The asset managing services supported by the **Property Taxes** are:

| Waste | Roads and Transportation (includes Stormwater) |
|----------------------------|--|
| TransHelp | Paramedics |
| Long Term Care | Housing Support |
| Homelessness Support | Police |
| Heritage, Arts and Culture | Early Years and Child Care |

In addition to these services, this plan also includes two internal service providers that manage assets on behalf of many other services. They are:

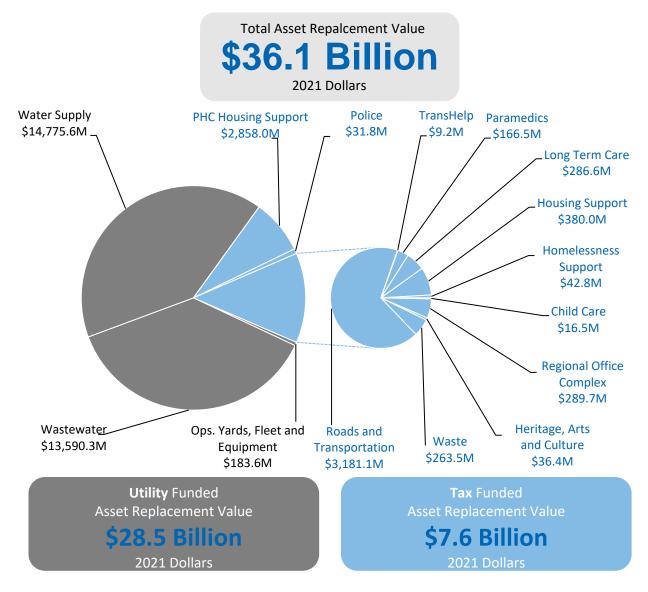
Operations Yards, Fleet & Equipment Regional Office Complexes



Value of the Infrastructure

What Would the Infrastructure Cost to Replace?

The Region's portfolio of directly owned infrastructure has an estimated replacement value of **\$36.1 Billion** (2021 values excluding land).



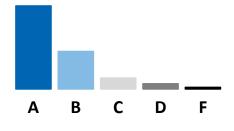
The Region owned assets **covered under the Enterprise Asset Management Strategy** have an estimated replacement value of **\$36 Billion** (2021 values excluding land).

Currently, the Enterprise Asset Management Strategy covers the majority of Peel's Infrastructure under the services mentioned above. As part of the ongoing continuous improvement of asset management and as more asset information becomes available, the Strategy will be expanded to cover more infrastructure. The Strategy currently excludes Information Technology and Green Infrastructure assets but will be added in the 2024 reporting.

State of the Infrastructure

What is the Condition of the Infrastructure?

Generally, the Region tries to maintain its infrastructure in a State of Good Repair (B) or better. As infrastructure ages, its condition grade will decrease. Reinvestments in the assets will improve the grade. There are cases where the condition for specific types of assets can degrade further because the risk to services does not increase significantly and the Region can realize cost savings for the taxpayer.



How is the Condition Graded?

When the condition of individual assets is assessed, a wide range of techniques are used as appropriate to the infrastructure. Peel's State of Good Repair (SoGR) Condition Grades provide a common way to look at the condition of all the diverse infrastructure that the Region owns.

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

How well is the Infrastructure being Managed?

The goal for the Region of Peel is to have most of the assets financed to achieve their condition and performance targets in order to provide efficient and reliable services at rates affordable to the taxpayer. This will achieve a Risk Management Rating of **Good**.

The Region of Peel is currently achieving a rating of:





Asset Management Service Target¹

Status of Regional Infrastructure Assets²

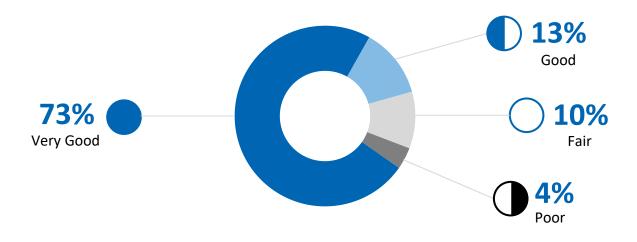


Asset Health Score³

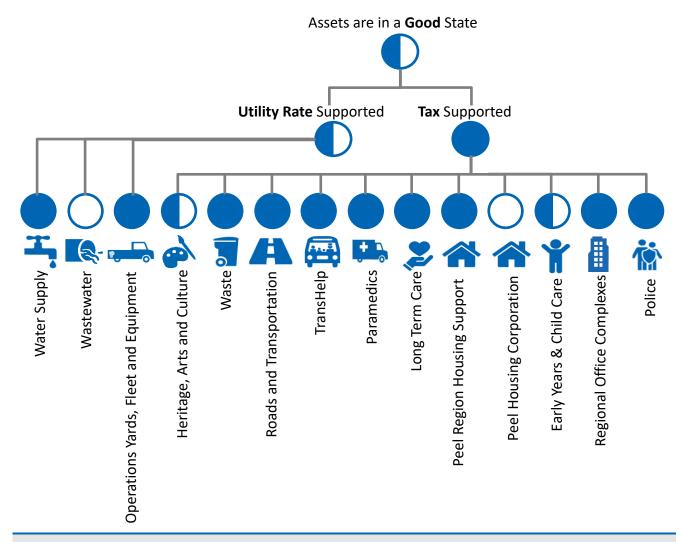
Target: 🚺 Good

This indicator is used to measure and report the progress towards the Asset Management Service outcomes, the Leading outcomes in the Strategic Plan, the Financial Sustainability pillar of the Long Term Financial Planning Strategy and as the primary measure in the Infrastructure Status and Outlook Report.⁴

What is the Breakdown of Ratings?



- ¹ <u>Community for Life Dashboard</u>
- ² <u>Community for Life Dashboard (Status of Regional Infrastructure Assets)</u>
- ³ Financial Scorecard
- ⁴ Infrastructure Status and Outlook Report



How Do the Services Contribute to the Overall Rating?

What do the Risk Management Ratings mean?

Asset Management is about more than making sure the infrastructure is in good condition. The Region also needs to consider whether the right assets are in the right place to support the desired service outcomes. Do the assets provide enough capacity? Are there spares and backups? Are they meeting all required codes and regulations? Does the community want the infrastructure to look nice? The Region calls these types of requirements Performance Levels of Service. The Risk Management Rating considers the State of Good Repair (SoGR) Levels of Service, the Performance Levels of Service and funding that is dedicated or planned for the infrastructure.

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10-Year Infrastructure Reinvestment Plan

What is the Plan?

| | Total (SoGR) |
|---|--------------|
| Forecasted 10-Year Reinvestment Needs | 4,321.4M |
| Reinvestments in the 10-Year Capital Plan | \$4,402.0M |

Values are in 2023 dollars

Reinvestment requirements of **\$4,321.4 Million** are forecasted for the next 10 years to maintain the infrastructure in a state of good repair. **\$2,635.9 Million** of this will be required to be funded through Utility Rates and **\$1,685.5 Million** will be required to be funded through Property Taxes unless alternate funding sources are identified or confirmed and validated for on-going availability.

The Region's 10-Year Capital Plan includes **\$4,402.0 Million** in asset reinvestments. The difference between the Forecasted Needs and the Capital Plan is within the Region's accepted tolerances and meets the needs to support service delivery.

Why is there a difference between the forecasted needs and the plan?

There are many reasons why the 10-year plan does not match exactly with the 10-year reinvestment needs forecast. The reasons can be broken into three broad categories:

Strategic Planning

The Region is always trying to find efficiencies and make the best long-term decisions. Infrastructure reinvestments may need to be delayed or advanced to align the timing of projects, complete studies or be eligible for provincial or federal funding opportunities.

External Pressures

The Region strives to align infrastructure replacement projects with those of local municipalities and other agencies, to achieve efficiencies and minimize the impact to the public during construction. Other factors such as economic conditions and the need to meet regulatory requirements may also impact which projects are included within the Capital Plan.

Updated Information

The Region is continually trying to improve the accuracy of the asset information. There can be significant updates and changes in the time between when the infrastructure needs forecasts are prepared and when the Capital Plan is developed. These changes can be due to updated condition assessments, asset replacement values and lifecycle strategies.

What is the Plan for Utility Rate Supported Infrastructure?

| | Total (SoGR) |
|--|--------------|
| Forecasted 10-Year Reinvestment Needs | \$2,635.9M |
| Reinvestments in the 10-Year Capital Plan | \$2,661.0M |

Values are in 2023 dollars

What is the Plan for Tax Supported Infrastructure?

| | Total (SoGR) |
|--|--------------|
| Forecasted 10-Year Reinvestment Needs | \$1,685.5M |
| Reinvestments in the 10-Year Capital Plan | \$1,741.0M |

Values are in 2023 dollars

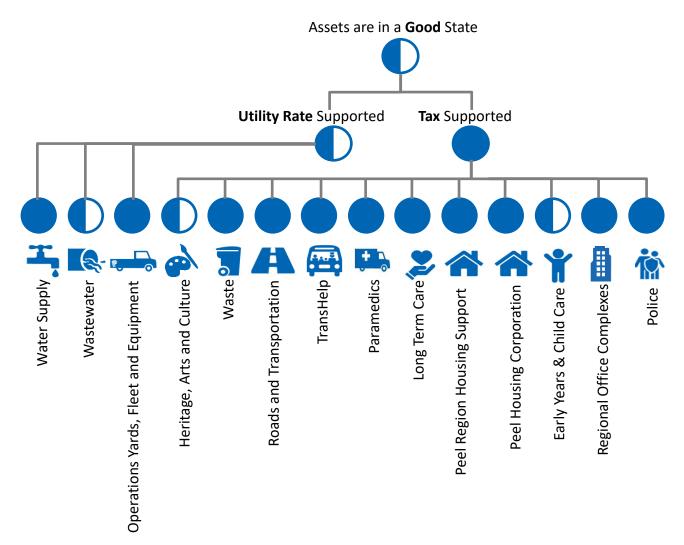
Forecasted State of the Infrastructure in 2032

With the Reinvestments in the 10-year Capital Plan...

The Region of Peel will achieve an overall rating of:

Very Good

How will the Services Contribute to the Overall Rating?



| | what do | o the Risk IV | lanagemen | it Ratings r | nean | 12 | |
|--|---------|---------------|-----------|--------------|------|----|--|
| | | | | | | | |

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |
| | | |

Summary of the 10-Year Plan

| | Current State | | 10 Year Reinvestment Plan | | |
|--|--------------------------|--|---|---|-----------------------------|
| Service | Current Rating (2023) | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | Reinvestments in the 10-Year Capital Plan (2023 \$ Millions) | Forecasted Rating (2032) |
| Water Supply | | 14,773.9 | 1,153.6 | 1,175.8 | |
| Wastewater | 0 | 13,589.5 | 1,404.0 | 1,406.4 | |
| Ops. Yards, Fleet & Equipment | | 171.8 | 78.3 | 78.8 | |
| Utility Rate Supported Services - Total | | 28,535.3 | 2,635.9 | 2,661.0 | |
| Heritage, Arts and Culture | | 36.4 | 14.6 | 14.5 | |
| Waste | | 263.5 | 154.6 | 153.5 | |
| Roads and Transportation | | 3,098.8 | 517.2 | 536.7 | |
| TransHelp | | 9.2 | 17.8 | 18.4 | |
| Paramedics | | 166.5 | 78.5 | 80.3 | |
| Long Term Care | | 286.6 | 56.3 | 59.0 | |
| Peel Region Housing Support | | 422.8 | 18.0 | 18.0 | |
| Peel Housing Corporation | 0 | 2 <i>,</i> 858.0 | 701.4 | 731.5 | |
| Early Years and Child Care | | 10.8 | 8.3 | 6.6 | |
| Regional Office Complexes | | 289.7 | 49.3 | 50.0 | |
| Police | | 31.8 | 69.4 | 72.6 | |
| Tax Supported Services - Total | | 7,474.1 | 1,685.5 | 1,741.0 | |
| Region of Peel - Total | | 36,009.4 | 4,321.4 | 4,402.0 | |

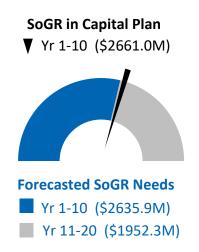
What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

20-Year State of Good Repair (SoGR) Forecast

The 20-year State of Good Repair forecast allows decision makers to take a wider view of the upcoming asset reinvestment needs. Many of the assets that the Region relies on to provide service have very long lifecycles. There will be times when many expensive assets need replacement within a short time span. It is important to see increases and decreases in needs coming, so that plans can be made, and sudden large changes in Tax and Utility rates can be avoided.

Utility Rate Supported Infrastructure 20-Year SoGR Forecast

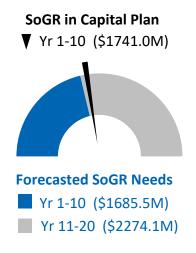


Uninflated SoGR reinvestment needs for the utility rate supported infrastructure portfolio are forecasted to slightly decrease in the next 20 years.

The 10-year Capital Plan is in line with the forecasted 10-year State of Good Repair reinvestment needs.



Tax Supported Infrastructure 20-Year SoGR Forecast



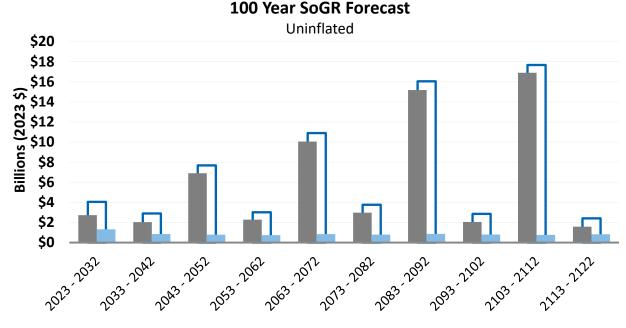
Uninflated SoGR reinvestment needs for the tax levy supported infrastructure portfolio are forecasted to increase slightly in the next 20 years.

The 10-year Capital Plan is slightly higher than the forecasted 10-year SoGR reinvestment needs. Since the SoGR needs are forecasted to increase over the next 20 years, future Capital Plans will need to increase beyond the rate of inflation in order to ensure that the infrastructure is in an adequate state to support the delivery of services.



100-Year State of Good Repair Forecast

Long-term infrastructure investment forecasts allow decision makers to anticipate major trends in the Region's infrastructure needs and make proactive financing and asset management decisions. Long-term SoGR projections include the estimated rehabilitation and replacement costs of existing assets as well as the estimated rehabilitation and replacement cost of planned asset growth.



Region Total Utility Rate Funded Tax Funded

The Region of Peel's Capital SoGR needs are expected to increase steadily over a 70-year timeframe even before factoring in inflation. Increasing capital reserve contributions at the rate of inflation will not be enough to meet forecasted needs.

The first 20 years primarily see increased needs in the tax funded portfolio with a small decrease in the needs of the utility funded portfolio. After the first 20 years, the tax funded infrastructure needs are forecasted to stabilize while the utility rate funded infrastructure needs are expected to continue to grow. This is primarily due to the fact that the bulk of the water and wastewater systems are relatively new and account for over 80% of the infrastructure value. As these systems age, they will require greater and more frequent reinvestments.

Because the 100-Year forecast is shown without forecasted inflation; the dollars can be roughly translated into the volume of work required.

Financing Plan

Infrastructure Reinvestment Financing Strategy

State of Good Repair capital works are financed through the **Tax-supported Capital Reserve** and **Utility Ratesupported Capital Reserve**. The Enterprise Asset Management Plan proposes and prioritizes the Region's infrastructure investment requirements according to their respective reserve financing sources.

The Region of Peel's Debt Management Policy promotes a "**Pay as You Go**" philosophy to state of good repair financing and generally discourages the use of debt to fund state of good repair work.

Regional Council has been supportive of this approach and has approved modest annual increases to the Capital Reserve levies since 2009 to reduce the unfunded infrastructure gap.

The infrastructure reinvestment strategy supports the three objectives of Peel's Long Term Financial Planning Strategy:

- 1. Ensure financial sustainability
- 2. Minimize financial vulnerability
- 3. Manage financial flexibility

"Borrow when appropriate for capital infrastructure – Maintain an affordable level of debt required to achieve desired service levels while minimizing the impact of borrowing to the taxpayer and ensuring intergenerational equity"

– 2019 Long Term Financial Planning Strategy

Financial Modeling

The Region's Financing Strategy utilizes financial modelling to determine revenue requirements to finance the Region's annual budget and forecast. The inputs for the Financial Model include, but are not limited to:

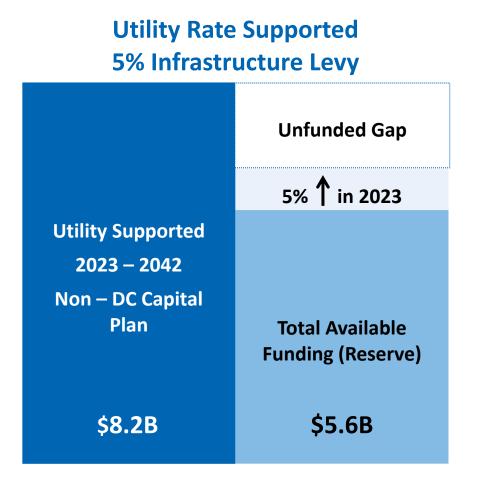
- Tax and Utility Rates
- Forecasted growth
- Employment and demographics
- Capital plans
- Operational plans and projections, and
- 20-year Enterprise Asset Management reinvestment forecasts

The Model is updated on an annual basis to reflect changes in policy and strategy and informs the capital planning process. The Financial Model is used in part to determine the adequacy of the tax and utility rate supported reserves and to calculate an appropriate adjustment in rates if required.

Utility Rate Supported Infrastructure Financing Plan

The utility rate infrastructure financing plan uses a 20-year horizon to determine the adequacy of infrastructure reserves. There is expected to be a **\$2.6 Billion gap** by the end of 2042 at current reserve funding rates.

A 5% increase in utility rates dedicated to funding the capital reserve is included in the 2023 Capital Plan to partially close the gap. A long-term financial planning exercise shows an annual increase of 5% for four more years until 2027 will close the funding gap, assuming the expenditures and revenue sources do not change. Options and opportunities to further reduce the Region's unfunded infrastructure investment gap will be considered with Council and incorporated into future plans.



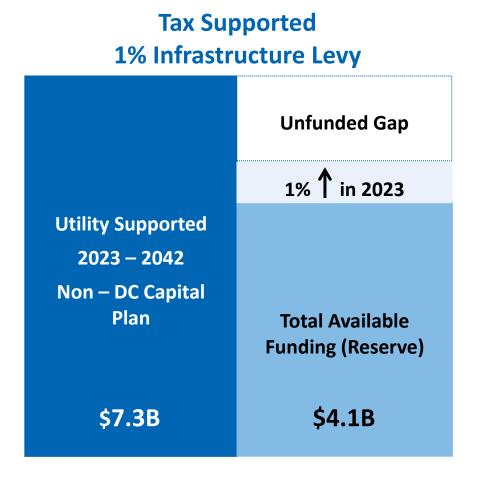
Although the unfunded gap may be closed in the short term the Long Term Forecast shows the infrastructure reinvestment needs at the Region of Peel are expected to increase steadily over the next 70 years.

24

Tax Rate Supported Infrastructure Financing Plan

The tax rate supported infrastructure financing uses a 20-year horizon to determine the adequacy of infrastructure reserves. There is expected to be a **\$3.2 Billion gap** by the end of 2042 at current reserve funding rates.

A **1.0%** increase in property tax rates dedicated to funding the capital reserve is included in the 2023 Capital Plan to partially close the gap. For the years 2024 and beyond, a 1% infrastructure levy increase will continue to be needed to close the State of Good Repair infrastructure gap. Options and opportunities to further reduce the Region's unfunded infrastructure investment gap will be considered with Council and incorporated into future plans.



Although the unfunded gap may be closed in the short term the Long Term Forecast shows the infrastructure reinvestment needs at the Region of Peel are expected to increase steadily over the next 70 years.

25

Risks to the Financing Plan

Servicing Peel's Population Growth

Intensification of populated areas – In order to promote better use of land and services, preserve green space and satisfy the Province's "*Places to Grow*" requirements, there is greater emphasis on intensifying the use of populated lands. Although this is a prudent method to better utilize lands and services, the construction of infrastructure to accommodate growth in such areas can lead to higher initial capital costs and the need to prematurely replace infrastructure which may not have reached its full life span.



Expanding into un-serviced "greenfield" lands – Peel's growth also requires the urbanization of rural lands. Such expansions

require the extension of water, wastewater, roads, solid waste, health, and social services to accommodate the added population. The expansion of infrastructure to accommodate these services as well as the increase in Regional fleet and distances to provide services will create added pressures in terms of operating and maintaining the Region's expanded network.

Ongoing Condition Assessment Program

Detailed asset condition assessments are carried out across the organization. The results of these assessments will improve the SoGR analysis and more accurately identify capital needs.

Weather and Climate Change Impacts

Weather impacts water consumption demand primarily during the summer, rainwater and groundwater surcharges enter wastewater sewers primarily in the spring, as well as the TransHelp and road maintenance programs in the winter. Efforts are made to mitigate this risk using trend analysis and the Stabilization Reserves.

Additionally, the risk of damage to assets from significant weather events is increasing. Future increased capital reinvestment to mitigate this damage will be required.

Economic Conditions

Changes to economic conditions can impact the Financing Plan. Specific risks to the plan include:

- Increases in labour costs
- Decreases in revenue for recycled materials
- Increases in energy costs

- Increases in debt servicing costs
- Decreases in grants and subsidies

Significant change to the broader economic conditions may also impact service delivery and demand. The COVID-19 pandemic has elevated fiscal risks which in turn may contribute to higher longterm financial stability and sustainability risks.

Regulatory Impacts

Changes to regulations in the Region of Peel's operational environment have significant impact on financial plans and may change:

- What services are provided by the Region
- The content of the Region's capital asset portfolio
- The availability of funding sources
- Design and construction
- Technology requirements
- Operational practices

Changes to Level of Service Targets

Level of Service Targets drive the reinvestment forecasts in the Asset Management Reinvestment Plan. Levels of Service are based on regulations, standards, and council approved service levels. Increased regulations and standards will require changes to the level of service targets. Council approved levels of service may also change to better align with the priorities of the community.

Impacts from and Alignment with Infrastructure Plans of Other Governments and Agencies

Where the Region of Peel owns or manages infrastructure in proximity to that of other levels of government or external agencies, reinvestment plans may need to be adjusted to align infrastructure planning between organizations. These adjustments have the potential to significantly increase the Region's infrastructure financing requirements if a high value piece of infrastructure is required to be relocated or enhanced prior to the asset's normal end of life. Alternatively, there are opportunities for cost sharing between organizations when colocated assets require replacement or rehabilitation within a similar time frame.

Continued Pandemic Recovery

The COVID-19 pandemic recovery will continue to require modifications to operations and maintenance activities, as well as impact infrastructure design and delivery of infrastructure renewal projects. As the longer-term impacts are understood, these considerations will need to be incorporated into future Asset Management Plans.

Enterprise Asset Management Road Map

Enterprise Asset Management is an integral part of the Region of Peel's strategic and long-term planning practices. Introduced in 2007, the program focuses on developing sustainable plans to maintain the infrastructure over a planning horizon that can be as long as 100 years. Guided by the principle of continuous improvement, these plans support Council's level of service targets and long-term financial strategies. The Region's Asset Management program is guided by industry best practice, as well as regulatory requirements. The program is continuously evolving to leverage opportunities and address challenges.

Although the Region of Peel's longterm asset planning program has been in place since 2007, it is still good practice to review the program to accommodate emerging trends. In 2017, the Region retained an independent third-party consultant to initiate a comprehensive asset management program review. The objective of the review was to align the Region's asset management practices with industry best practices. As a result of the review, over the next several years several initiatives have been proposed. These initiatives will address emerging trends as well as focus on identified gaps.

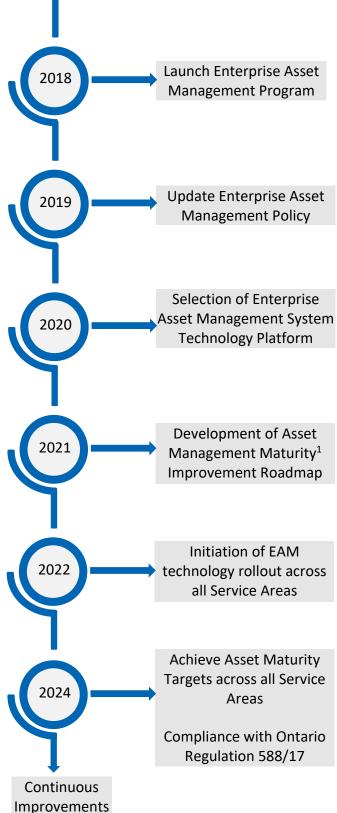


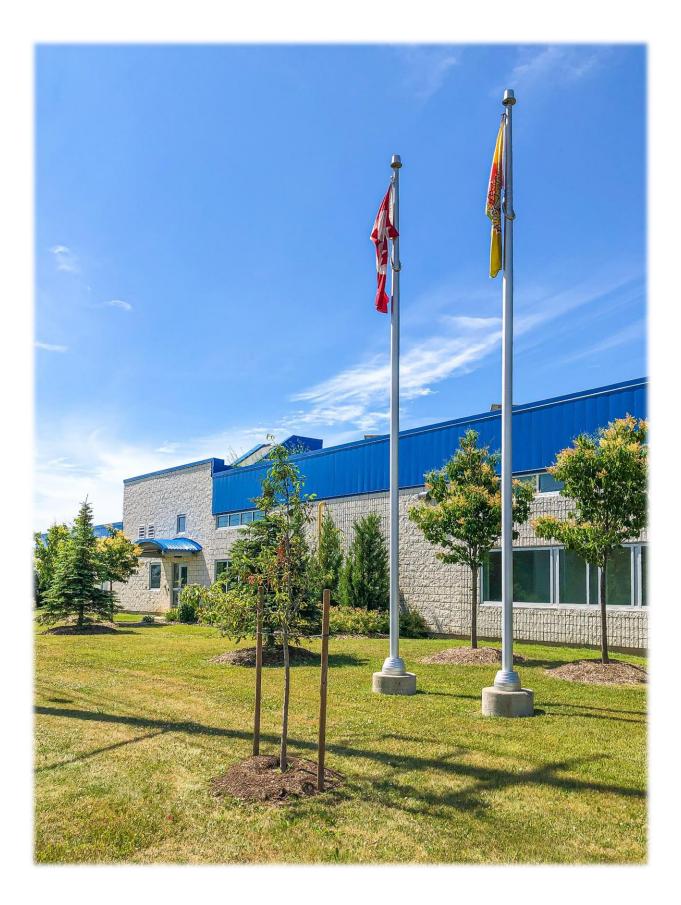
Changes since the 2018 Enterprise Asset Management Plan

- Enterprise Asset Management (EAM) division established within the Finance department.
- The Region's Asset Management
 Policy has been updated to meet the new Ontario Regulation 588/17.
- Assets supporting the Affordable Housing service managed by Peel Housing Corporation and Police service managed by Peel Police are incorporated into Asset Management reporting.
- Operations and Maintenance costs incorporated into Service areas for full lifecycle costing considerations.

Improvements for the Future

- Staff is undertaking many technical studies and condition assessments to improve knowledge of the Region's infrastructure conditions.
- Asset Management planning process improvements are being made across several services to improve investment forecasting and to manage risks to Regional services.
- An Enterprise Asset Management System will be introduced to support asset management functions across the organization.
- Assets supporting Peel Information Technology Infrastructure and Green Infrastructure will be added to the Enterprise Asset Management Plan in the 2024 reporting cycle.





DAR

Strategic Plan Area of Focus:

Communities are integrated, safe and connected

Strong, successful communities just work. They have strong bones and arteries. Their systems, many unseen below the surface, function efficiently and are well maintained, with an eye on preserving value and reliable performance for future generations. The Region of Peel works and serves its residents and businesses throughout a **Community for Life**.

10/1

Asset Management Reinvestment Plan Water Supply

State of the Infrastructure Water Supply

Two treatment plants
15 wells
19 pumping stations
28 water storage facilites
4,733 km of water pipes

Total Asset Replacement Value

\$14.8 Billion

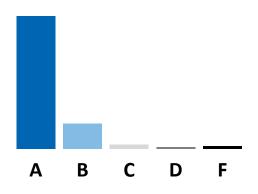
2021 Dollars

The water infrastructure is currently in good condition. for delivering safe, reliable drinking water; however, there are concerns that climate change risks are impacting Peel's water treatment and transmission services.

The Region is proactively identifying how the infrastructure can be enhanced to mitigate the risk of extreme heat events and changing quality of the Lake Ontario water and will require future investments to mitigate these risks.

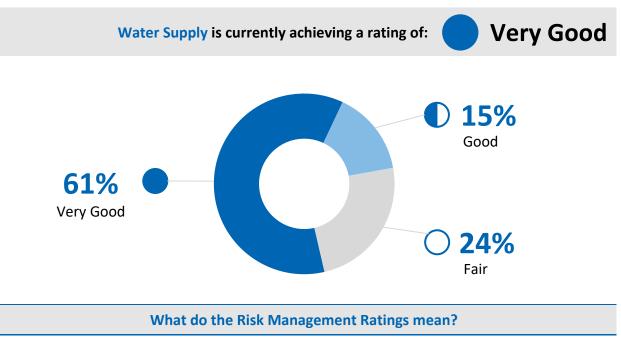
Proactive pipe replacement programs are in place to keep the water system safe and reliable for homes and industries.

Condition of the Infrastructure



The average age of Water assets is 21 years. Asset condition is calculated based on break history for water pipes, condition assessments for buildings and structures and estimated service life for most of the other assets.

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |
| F | Many critical defects; immediate repair or replacement required |



| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

Target Customer Levels of Service¹

Our customers should expect...

| Potable water which meets or exceeds all regulatory requirements. | |
|--|-----|
| Aesthetically pleasing water quality. | |
| Reliable and consistent water press ure and flow. | |
| Efficient and affordable delivery of water services. | |
| The Facilities are structurally sound and in a state of good repair. | 16- |
| The Facilities fully meet the Programs' services requirements. | 2 |
| The Facilities provide a safe, healthy environment for staff and the public. | |
| The Facilities are accessible as required. | 37 |



¹ O. Reg. 588/17 related Levels of Service are presented in Appendix V

Infrastructure Reinvestment Plan Water Supply

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|--|--|---|
| Total Reinvestment (SoGR) | \$1,153.6M | \$1,175.8M |
| Values are in 2023 dollars | | |
| Operations and Mainter | nance Expenses | |
| Annual Expenditures | \$28.0M | 0.2% of replacement value |
| Capital reinvestments of \$1,175.8 M years to maintain the infrastructure infrastructure reinvestments in the C forecasted reinvestment needs. Operations and Maintenance expense 0.2% of asset replacement value are distribution and treatment systems a the assets. These costs are considered | in a state of good repair. The Capital Plan are comparable ses of approximately \$28.0M incurred to operate the wat and conduct maintenance ac ed as part of whole lifecycle s | e with the I per year or er tivities on strategies |
| development and will continue to be information and technology improve If the Reinvestments in the Cap | 2. | |
| Water Supply is fore | ecasted to achieve a rating o | f: 🔵 Very Goo |
| 76% Very Good | | 12% Good 12% Fair |
| What do the | Risk Management Ratings n | nean? |

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Water Supply

| | Curre | nt State | 10 | Year Plan | |
|--------------|--------------------------|---|---|--|-----------------------------|
| Service | Current Rating (2023) | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | ĸ | SoGR | SoGR | |
| Water Supply | | 14,773.9 | 1,153.6 | 1,175.8 | |

20 Year SoGR Outlook Water Supply

SoGR in Capital Plan



State of good repair reinvestment needs are forecasted to decrease slightly in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with the forecasted reinvestment needs

Asset Management Reinvestment Plan Wastewater

State of the Infrastructure Wastewater

Two treatment plants,31 sewage pumping stations3,707 km of sanitary sewer pipes

Total Asset Replacement Value

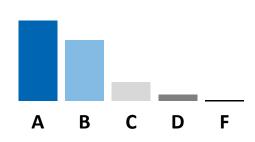
\$13.6 Billion

2021 Dollars

The wastewater infrastructure is currently in good condition; however, the early effects of climate change are beginning to impact the Peel wastewater collection system.

The Region is proactively identifying how the infrastructure can be enhanced to mitigate the risk of overflows to the environment and backups into homes and businesses which should raise the overall score of the portfolio. Proactive expansions and rehabilitations programs are in place at the wastewater

Condition of the Infrastructure

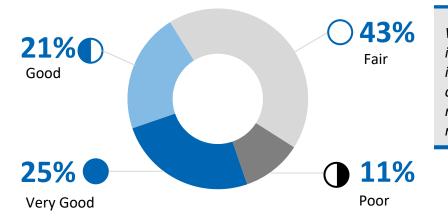


The average age of Wastewater assets is 26 years. Asset condition is calculated based on inspections for pipes, condition assessments for buildings and structures, and estimated service life for most other assets.

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

Wastewater is currently achieving a rating of:

Fair



While the infrastructure is in good condition overall, issues related to climate change are increasing the risk in this asset portfolio resulting in the fair rating.

What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

Target Customer Levels of Service¹

Our customers should expect...

Reliable, efficient and effective wastewater collection and treatment.

The Facilities are structurally sound and in a state of good repair.

The Facilities fully meet the Programs' services requirements.

The Facilities provide a safe, healthy environment for staff and the public.

The Facilities are accessible as required.



Infrastructure Reinvestment Plan Wastewater

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|---|--|---------------------------------|
| Total Reinvestment (SoGR) | \$1,404.0M | \$1,406.4M |
| Values are in 2023 dollars | | |
| Operations and Mainte | nance Expenses | |
| Annual Expenditures | \$15.0M | 0.1% of replacement valu |
| einvestment needs. perations and Maintenance expen r 0.1% of asset replacement value astewater collection and treatmer ctivities on the assets These costs a | are incurred to operate the nt systems, and conduct main are considered as part of who | tenance le |
| ecycle strategies development and sset management information and | l technology improve. | |
| he Reinvestments in the Capi | tal Plan are made over 10 | years, in 2032 |
| Wastewater is for | ecasted to achieve a rating of | 🗄 🚺 Good |
| | | |
| 36% C Good | | 32% Fair |
| 36% | | ○ 32% |

What do the Risk Management Ratings mean?

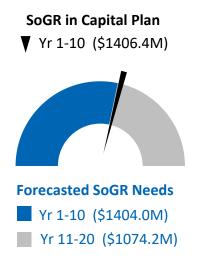
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Wastewater



| | Curre | nt State | 10 Y | ear Plan | |
|------------|--------------------------|---|---|--|-----------------------------|
| Service | Current Rating (2023) | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | Å | SoGR | SoGR | |
| Wastewater | 0 | 13,589.5 | 1,404.0 | 1,406.4 | |

20 Year SoGR Outlook Wastewater



State of good repair reinvestment needs are forecasted to slightly decrease in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs

Asset Management Reinvestment Plan Operations Yards, Fleet and Equipment

State of the Infrastructure Ops. Yards, Fleet and Equipment

Five works yards496 vehicles231 pieces of major equipment

Total Asset Replacement Value

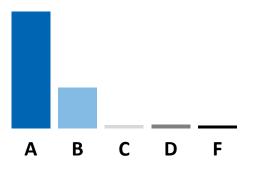
\$183.6 Million

2021 Dollars

Operations, Yards and Equipment assets are generally in a good condition to support the service in achieving their service level objectives.

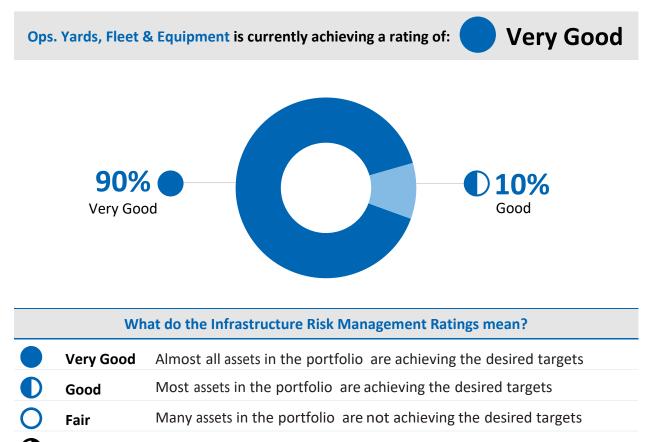
Works yard redevelopment projects are underway to enhance or replace some aging facilities which do not meet all current requirements of the assets.

Condition of the Infrastructure



The average age of Operations, Yards and Equipment assets is 17 years. Asset condition is calculated based building condition assessments for buildings and estimated service life for most other assets.

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |



Poor Most assets in the portfolio are not achieving the desired targets.

Very Poor Almost all assets in the portfolio are not achieving the desired targets

Target Customer Levels of Service

Our customers should expect...

Fleet is safe and maintained in a state of good repair.

The Fleet quality and availability fully meet the Programs' service requirements.

Quick response time on fleet procurement requests.

The Facilities are structurally sound and in a state of good repair.

The Facilities fully meet the Programs' services requirements.

The Facilities provide a safe, healthy environment for staff and the public.

The Facilities are accessible as required.



² O. Reg. 588/17 related Levels of Service are presented in Appendix V

Infrastructure Reinvestment Plan Ops. Yards, Fleet and Equipment

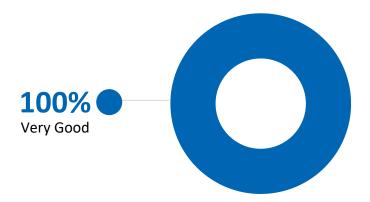
| 10 Year Reinvestment | Forecasted Needs | Capital Plan | | |
|-------------------------------------|------------------|-----------------------------------|--|--|
| Total Reinvestment (SoGR) | \$78.3M | \$78.8M | | |
| Values are in 2023 dollars | | | | |
| Operations and Maintenance Expenses | | | | |
| Annual Expenditures | \$28.1M | 13.7% of replacement value | | |

Capital reinvestments of **\$78.8 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$28.1M** per year or **13.7%** of asset replacement value are incurred to operate the Works Yard, fleet and equipment and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...





What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |
| | | |

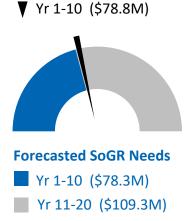
10 Year Summary Operations Yards, Fleet and Equipment



| | Current State | | 10 Year Plan | | |
|--|---|---|--|-----------------------------|--|
| Service | Current Rating (2023) Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) | |
| | | , Re | SoGR | SoGR | |
| Operations Yards, Fleet and Equipment | | 171.8 | 78.3 | 78.8 | |

20 Year SoGR Outlook Operations Yards, Fleet and Equipment

SoGR in Capital Plan



State of good repair reinvestment needs are forecasted to slightly increase in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Asset Management Reinvestment Plan Heritage, Arts and Culture

State of the Infrastructure Heritage, Arts and Culture

Four heritage facilities

Total Asset Replacement Value

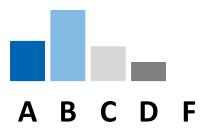
\$36.4 Million

2021 Dollars

The Heritage, Arts and Culture infrastructure is in good condition. There are currently projects underway that will improve the condition of these facilities to support and sustain the historical and cultural fabric of Peel.

Being a Heritage Complex, all the buildings are designed to older building standards impeding their ability to meet some current program requirements.

Condition of the Infrastructure



The average age of Heritage, Arts and Culture assets is 126 years. Asset condition is calculated based building condition assessments for facilities.

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

| | Heritage, Arts and Culture is currently achieving a rating of: OGOOD | | | | |
|-----------|--|--|--|--|--|
| | 509 Very G | | | | |
| | | What do the Risk Management Ratings mean? | | | |
| | Very Good | Almost all assets in the portfolio are achieving the desired targets | | | |
| | Good | Most assets in the portfolio are achieving the desired targets | | | |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets | | | |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets | | | |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets | | | |

Target Customer Levels of Service

Our customers should expect...

A place where the past, present and future are linked in dynamic displays and explored through creative programming and research.

The Region's artistic heritage is preserved and promoted, and quality educational programs are produced.

Materials which deal with the development of the Region of Peel are collected, preserved and made available.

Local, regional, and national artists unique gift ideas for every occasion and budget are on offer.

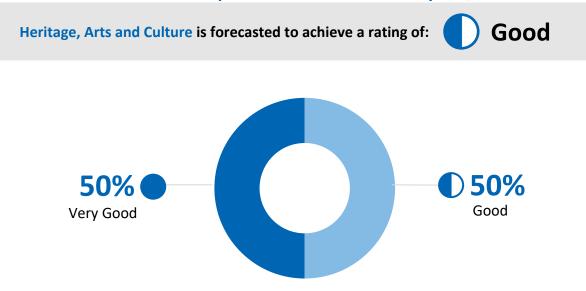


Infrastructure Reinvestment Plan Heritage, Arts and Culture

| | Foundation Network | | | |
|--|--------------------|----------------------------------|--|--|
| 10 Year Reinvestment | Forecasted Needs | Capital Plan | | |
| Total Reinvestment (SoGR) | \$14.6M | \$14.5M | | |
| Values are in 2023 dollars | | | | |
| Operations and Mainter | so.3M | 0.7% of replacement value | | |
| Capital reinvestments of \$14.5 Million are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs. | | | | |
| Descriptions and Maintonanas average | | | | |

Operations and Maintenance expenses of approximately **\$0.3M** per year or **0.7%** of asset replacement value are incurred to operate the Heritage, Arts and Culture facilities and equipment and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Heritage, Arts and Culture



| | Current State | | 10 Year Plan | | |
|-------------------------------|---|---|--|-----------------------------|--|
| Service | Current Rating (2023) Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) | |
| | | Re C | SoGR | SoGR | |
| Heritage, Arts and Culture | | 36.4 | 14.6 | 14.5 | |

20 Year SoGR Outlook Heritage, Arts and Culture



State of good repair reinvestment needs are forecasted to increase slightly in the next 20 years.

The infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

Asset Management Reinvestment Plan Waste

State of the Infrastructure Waste

Six community recycling centres **One** composting and curing facilities One material recycling facility One leachate treatment facility Two transfer stations Ten closed landfills 11,275 multi-residential carts 996,380 curbside collection carts

Total Asset Replacement Value \$263.5 Million 2021 Dollars

Majority of the Waste Management infrastructure is in good condition, supporting the safe removal of solid waste from the community.

Waste Management staff is working on an Infrastructure Development Plan to support diversion targets outlined by the Region's Waste Reduction and Resource Recovery Strategy to adapt to Council's long-term direction.

Condition of the Infrastructure



The average age of Waste assets is 13 years. Asset condition is calculated based building condition assessments for facilities and service life for most other assets.

B D F С Α

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

| | | Waste is currently achieving a rating of: Very Good |
|---|-----------------------|--|
| | 949 Very Go | |
| | | What do the Risk Management Ratings mean? |
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
| D | Good | Most assets in the portfolio are achieving the desired targets |

Fair Many assets in the portfolio are not achieving the desired targets

Poor Most assets in the portfolio are not achieving the desired targets

Very Poor Almost all assets in the portfolio are not achieving the desired targets

Target Customer Levels of Service

Our customers should expect...

Community Recycling Centres open during appropriate hours to meet community needs.

Operations of sites within Environmental Compliance Approval (ECA) parameters, with no impact on site neighbours.

Weekly collection of recyclables and processing of recyclables.

Weekly collection of garbage.

Weekly collection of organics.

Seasonal collection of yard waste - weekly/biweekly.

The facilities are structurally sound and in a state of good repair.

The facilities fully meet the Programs' services requirements.

The facilities provide a safe, healthy environment for staff and the public.

The Facilities are accessible as required.



Infrastructure Reinvestment Plan Waste

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|----------------------------|------------------|--------------|
| Total Reinvestment (SoGR) | \$154.6M | \$153.5M |
| Values are in 2023 dollars | | |
| | | |

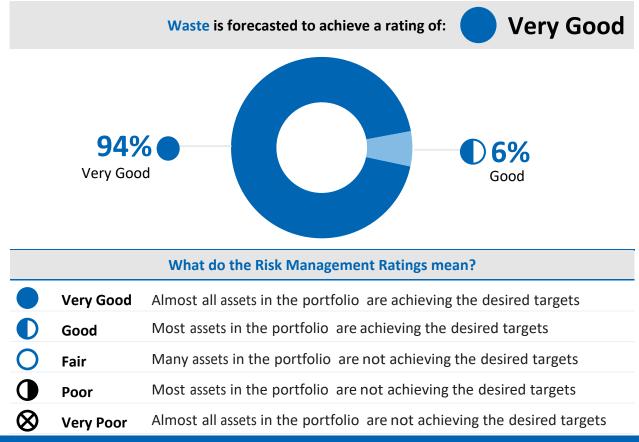
Operations and Maintenance Expenses

| Annual Expenditures | \$6.0M | 1.9% of replacement value |
|---------------------|---|----------------------------------|
| | + • • • • • • • • • • • • • • • • • • • | |

Capital reinvestments of **\$153.5 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs. The Region's plan to transition the Blue Box Program to Full Producer Responsibility by October 2024, could substantially alter the outlook for Waste Management's capital assets. An Infrastructure Plan is currently being developed that will identify new infrastructure and modifications to existing infrastructure necessary to support the efficient and reliable operation of the Waste Management system.

Operations and Maintenance expenses of approximately **\$6.0M** per year or **1.9%** of asset replacement value are incurred to operate the Waste facilities, provide environmental protection for closed landfills and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



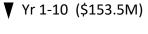
10 Year Summary Waste



| | Current State | | 10 Year Plan | | |
|---------|---|---|--|-----------------------------|--|
| Service | Current Rating (2023) Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) | |
| | | Å, | SoGR | SoGR | |
| Waste | | 263.5 | 154.6 | 153.5 | |

20 Year SoGR Outlook Waste

SoGR in Capital Plan





State of good repair reinvestment needs are forecasted to decrease in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

Asset Management Reinvestment Plan Roads and Transportation

State of the Infrastructure Roads and Transportation

1,637 km of Regional roads
170 bridges and large culverts
31,520 meters of noise walls
163 retaining walls
Two stormwater pumping stations
344 km of storm sewers
Two storm ponds
118 manufactured treatment devices

Total Asset Replacement Value



The Transportation infrastructure is in good condition to provide reliable transportation services. The Region continues to proactively assess the condition of roads infrastructure to support safe and efficient transportation services.

Review and improvements to the Roads and Stormwater Infrastructure data is underway and may change the outlook of the portfolio in future reporting.

Condition of the Infrastructure

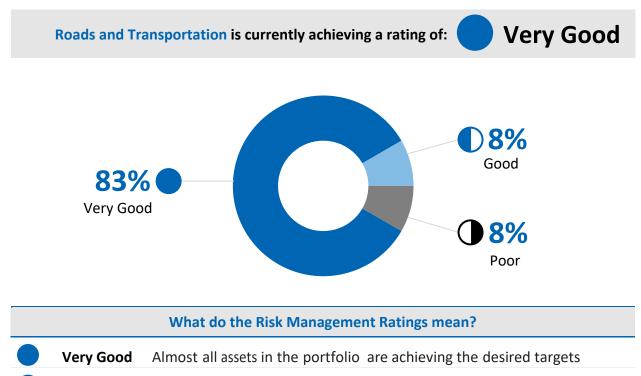


The average age for Roads (pavement) is 6 years, Bridges and Grade Separations is 44 years, Major Culverts is 36 years, Stormwater Assets is 16 years.

Asset condition is calculated based on pavement and bridge inspections, building condition assessments for buildings and based on estimated service life for most other assets.

Average condition for Roads, Bridges and Major Culverts are presented in Appendix V.

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |



| | Mast accets in the nortfolio | are achieving the desired targets |
|------|------------------------------|-----------------------------------|
| Good | wost assets in the portiono | are achieving the desired targets |

| С | Fair | Many assets in the portfolio | are not achieving the desired targets |
|---|------|------------------------------|---------------------------------------|
|---|------|------------------------------|---------------------------------------|

Poor Most assets in the portfolio are not achieving the desired targets

Very Poor Almost all assets in the portfolio are not achieving the desired targets

Target Customer Levels of Service¹

Our customers should expect...

Roads network and frastructure is safe, reliable and accessible year round..

Road network and infrastructure has the capacity to move good, people and emergency vehicles.

Road infrastructure is designed and operated in an environmentally sustainable manner and address social and aesthetic considerations.

Traffic signals are synchronized to promote the highest practical level of progression.

Reliable, efficient, and effective stormwater system to manage rain and snow melt runoff in order to reduce the risk of overland flooding, maintain water quality, and adapt to the effects of climate change.

The Facilities are structurally sound and in a state of good repair.

The Facilities fully meet the Programs' services requirements.

The Facilities provide a safe, healthy environment for staff and the public.

The Facilities are accessible as required

¹ O. Reg. 588/17 related Levels of Service are presented in Appendix V

Infrastructure Reinvestment Plan Roads and Transportation

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|----------------------------|-------------------------|--------------|
| Total Reinvestment (SoGR) | \$517.2M | \$536.7M |
| Values are in 2023 dollars | | |

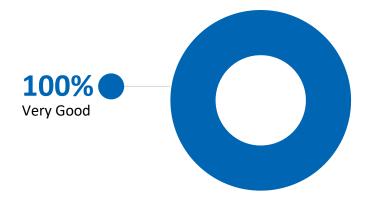
Operations and Maintenance Expenses

Reinvestments of **\$536 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$11.5M** per year or **0.3%** of asset replacement value are incurred for roads and stormwater management operations and maintenance activities. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...





What do the Infrastructure Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

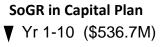
"We are all asset managers"

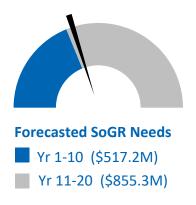
10 Year Summary Roads and Transportation



| | Current State | | 10 Year Plan | | |
|----------------------------------|--------------------------|---|---|--|-----------------------------|
| Service | Current Rating (2023) | Current Rating (2023) Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | Re | Re (| SoGR | SoGR | |
| Roads and Transportation | | 3,098.8 | 517.2 | 536.7 | |
| Roads Infrastructure | | 2,689.3 | 460.9 | 477.8 | |
| Stormwater Management Systems | | 409.5 | 56.3 | 58.9 | |

20 Year SoGR Outlook Roads and Transportation





State of good repair reinvestment needs are forecasted to increase significantly in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs.



State of the Infrastructure Police

7 Police Facilities 830 Police Vehicles Total Asset Replacement Value

\$260.1 Million

2021 Dollars

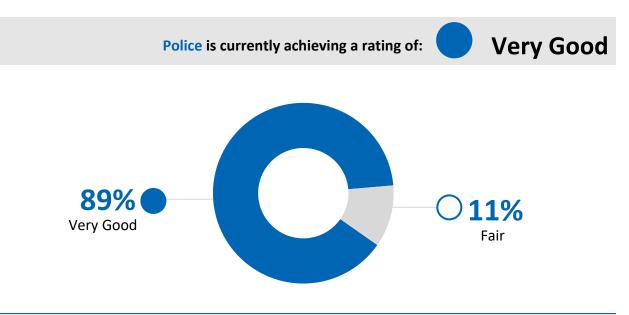
The Police services consist of emergency and call response vehicles as well as facilities. Sir Robert Peel Centre facility no longer meets service needs. Otherwise, assets are in good condition to support Police services.

Condition of the Infrastructure



The average age of Police assets is 18 years. Asset condition is calculated based on building condition assessments for buildings and estimated service life for all other assets.

- A New or like new condition
- **B** In a good state of repair
- **C** Some non-critical defects; some critical repairs in the near term
- **D** Some critical defects; many critical repairs in the near term
 - **F** Many critical defects; immediate repair or replacement required



What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

Target Customer Levels of Service

Our customers should expect...

Ensure safety and security of all persons and property in Peel (emergency and call response services, community partnerships, crime prevention and problem solving, and community education)

24/7 functionality for an emergency service

Recognizable positioning in the community

A safe and comfortable environment for staff

Accessible and well-equipped Policing facilities

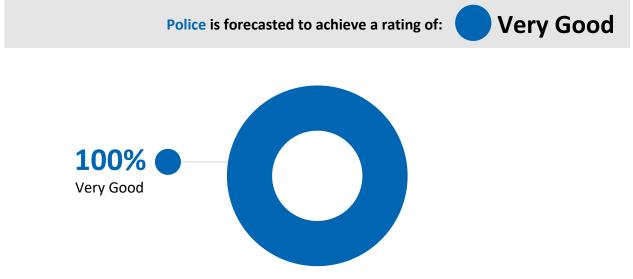


Infrastructure Reinvestment Plan Police

| | 10 Year Reinvestment | Forecasted Needs | Capital Plan | | | |
|---|---|------------------|----------------------------------|--|--|--|
| | Total Reinvestment (SoGR) | \$119.7M | \$114.5M | | | |
| | Values are in 2023 dollars | | | | | |
| | Operations and Mainten | ance Expenses | | | | |
| | Annual Expenditures | \$20.4M | 6.6% of replacement value | | | |
| Reinvestments of \$114.5 Million are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with forecasted reinvestment needs. | | | | | | |
| 0 | Operations and Maintenance expenses of approximately \$20.4M per | | | | | |

Operations and Maintenance expenses of approximately **\$20.4M** per year or **6.6%** of asset replacement value are incurred to operate Police facilities and vehicles and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



| | | What do the Risk Management Ratings mean? |
|-----------|-----------|--|
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Police



| | Curre | nt State | 10 Year Plan | | |
|--------------------------------|--------------------------|---|---|--|-----------------------------|
| Service | Current Rating (2023) | | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2022 \$ Millions) | Forecasted Rating (2032) |
| | | Replacement Value (2021 \$ Millions) | SoGR | SoGR | |
| Police | | 260.1 | 119.7 | 114.5 | |
| Police Fleet & Equipment | | 31.8 | 69.4 | 72.6 | |
| Police Facilities ¹ | | 228.3 | 50.3 | 41.9 | |

Note ¹: The Condition Scores, Risk Management Rating, 10-Year SoGR Forecast, and 20-Year SoGR Forecast for the Region exclude Police Facilities in this report. A full integration of Police Facilities will be included in the 2024 Enterprise Asset Management Plan.

20 Year SoGR Outlook Police

SoGR in Capital Plan ▼ Yr 1-10 (\$114.5M) Forecasted SoGR Needs ■ Yr 1-10 (\$119.7M) Yr 11-20 (\$146.5M)

State of good repair reinvestment needs are forecasted to increase in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs.



Strategic Plan Area of Focus:

Living

People's lives are improved in their time of need

Investing to build a **Community for Life** begins with people, and ensuring that those in need can find the help and support they need in Peel – from housing to accessible transportation, and from income support to paramedic services and long term care – the Region of Peel is a welcoming community to all.



State of the Infrastructure TransHelp

66 TransHelp vehicles

Total Asset Replacement Value



The TransHelp assets are in good condition to support travel within the community for Peel's residents in need.

Condition of the Infrastructure



The average age of TransHelp assets is 3 years. Asset condition is calculated based on estimated service life of the assets.

ABCDF

How is the Condition Graded?ANew or like new conditionBIn a good state of repairCSome non-critical defects; some critical repairs in the near termDSome critical defects; many critical repairs in the near termFMany critical defects; immediate repair or replacement required

| | TransHelp is currently achieving a rating of: Very Good | | | | | |
|-------------------|---|--|--|--|--|--|
| 100% Very Good | | | | | | |
| | | What do the Risk Management Ratings mean? | | | | |
| | Very Good | Almost all assets in the portfolio are achieving the desired targets | | | | |
| | Good | Most assets in the portfolio are achieving the desired targets | | | | |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets | | | | |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets | | | | |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets | | | | |

Target Customer Levels of Service

Our customers should expect...

Clients are transported in a safe manner and travel in a clean and well-maintained vehicle.

Clients are treated with courtesy and respect.

Service calls are answered promptly and courteously.

Clients are picked up on time and within the pickup window.

Service is compliant with the Accessibility for Ontarians with Disabilities Act (AODA).



Infrastructure Reinvestment Plan TransHelp

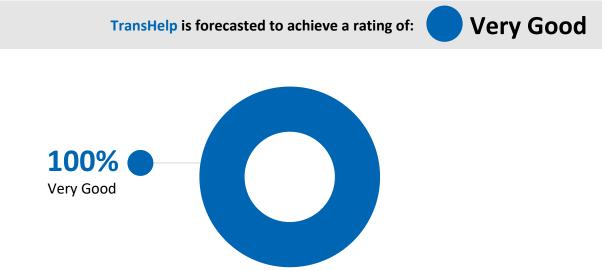
| 10 Year Reinvestment | Forecasted Needs | Capital Plan | | | |
|-------------------------------------|------------------|--------------|--|--|--|
| Total Reinvestment (SoGR) | \$17.8M | \$18.4M | | | |
| Values are in 2023 dollars | | | | | |
| Operations and Maintenance Expenses | | | | | |

Annual Expenditures \$2.2M 18.2% of replacement value

Reinvestments of **\$18.4 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$2.2M** per year or **18.2%** of asset replacement value are incurred to operate TransHelp vehicles and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary TransHelp



| | Current State | | 10 Year Plan | | | |
|-----------|---|-----|---|--|-----------------------------|--|
| Service | Current Rating (2023) Replacement Value (2021 \$ Millions) | | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2022 \$ Millions) | Forecasted Rating (2032) | |
| | | Ř | SoGR | SoGR | | |
| TransHelp | | 9.2 | 17.8 | 18.4 | | |

20 Year SoGR Outlook TransHelp

SoGR in Capital Plan ▼ Yr 1-10 (\$18.4M) Forecasted SoGR Needs ■ Yr 1-10 (\$17.8M) ■ Yr 11-20 (\$17.8M)

State of good repair reinvestment needs are forecasted to remain comparable in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Asset Management Reinvestment Plan Paramedics

State of the Infrastructure Paramedics

23 Regional paramedic stations183 paramedic vehicles777 pieces of paramedic equipment assets

Total Asset Replacement Value

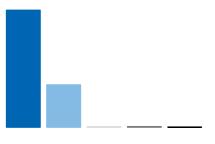
\$166.5 Million

2021 Dollars

The Region's paramedic services consist of new state-of-the-art-facilities, medical equipment, and emergency response vehicles, which are in good condition to support the emergency medical services.

Expansion and improvement of emergency services will continue with the addition of new stations, fleet and equipment to meet the medical needs of a growing and aging community.

Condition of the Infrastructure



The average age of Paramedics assets is 6 years. Asset condition is calculated based on building condition assessments for buildings and estimated service life for most other assets.

A B C D F

How is the Condition Graded?

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

| | | Paramedics is currently achieving a rating of: Very Good | | | |
|---|-------------------|--|--|--|--|
| | 100% Very Good | | | | |
| | | What do the Risk Management Ratings mean? | | | |
| | Very Good | Almost all assets in the portfolio are achieving the desired targets | | | |
| | Good | Most assets in the portfolio are achieving the desired targets | | | |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets | | | |
| ~ | | | | | |

Poor Most assets in the portfolio are not achieving the desired targets
 Very Poor Almost all assets in the portfolio are not achieving the desired targets

Target Customer Levels of Service

Our customers should expect...

| Expedient and safe response and possible transport to hospital. | |
|---|---|
| Provide the best evidence based medical care. | E |
| Pre-hospital emergency care at the minimum standard of the Ambulance Act. | |
| 24/7 functionality for an emergency service. | 1 |
| Recognizable positioning in the community. | |
| A safe and comfortable environment. | |
| Accessible and properly equipped EMS Facilities | |
| | |



² O. Reg. 588/17 related Levels of Service are presented in Appendix V

Infrastructure Reinvestment Plan Paramedics

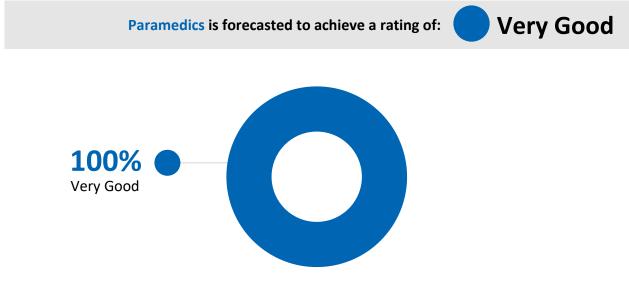
| 10 Year Reinvestment | Forecasted Needs | Capital Plan | | |
|-------------------------------------|------------------|--------------|--|--|
| Total Reinvestment (SoGR) | \$78.5M | \$80.3M | | |
| Values are in 2023 dollars | | | | |
| Operations and Maintenance Expenses | | | | |

| Annual Expenditures | \$10.5M | 5.3% of replacement value |
|---------------------|---------|----------------------------------|
|---------------------|---------|----------------------------------|

Reinvestments of **\$80.3 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$10.5M** per year or **5.3%** of asset replacement value are incurred to operate Paramedics facilities, vehicles and equipment, and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



What do the Risk Management Ratings mean?

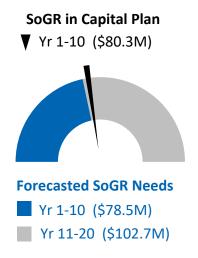
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Paramedics



| | Current State | | 10 Year Plan | | | |
|------------|--------------------------|---|---|--|-----------------------------|--|
| Service | Current Rating (2023) | Current Rating (2023) Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) | |
| | | Ř | SoGR | SoGR | | |
| Paramedics | | 166.5 | 78.5 | 80.3 | | |

20 Year SoGR Outlook Paramedics



State of good repair reinvestment needs are forecasted to increase in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Asset Management Reinvestment Plan Long Term Care

State of the Infrastructure Long Term Care

Five Long Term Care Centres

Total Asset Replacement Value

\$286.6 Million

2021 Dollars

The Region continually monitors the ability of the Long Term Care Centres to meet the ever-changing requirements of senior care and support. Peel Manor Long Term Care Centre is expected to be fully operational in 2023, providing complete senior care services and promoting opportunities for seniors to experience greater independence and more community integration.

The Long Term Care Centres are in good condition to support the Region's array of senior care services.

Condition of the Infrastructure



The average age of Long Term Care assets is 50 years. Asset condition is calculated based on Building Condition Assessments for buildings and estimated service life for most other assets.

How is the Condition Graded?

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

| | Lor | ng Term Care is currently achieving a rating of: Very Good |
|-----------|--------------------------|--|
| | 100% Very Good | |
| | | What do the Risk Management Ratings mean? |
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
| D | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |

Very Poor Almost all assets in the portfolio are not achieving the desired targets

Target Customer Levels of Service

Our customers should expect...

Provision of support and services to residents and their families in accordance with the Long Term Care Homes Act.

A safe and secure building environment which meets all Long Term Care Homes Act standards.

Fully accessible and equipped Facilities (Buildings) to meet the needs of resident, visitors, and staff.



Infrastructure Reinvestment Plan Long Term Care

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|----------------------------|------------------|--------------|
| Total Reinvestment (SoGR) | \$56.3M | \$59.0M |
| Values are in 2023 dollars | | |
| | | |

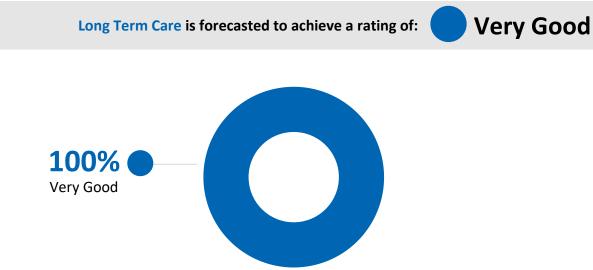
Operations and Maintenance Expenses

| Annual Expenditures | \$8.4M | 2.5% of replacement value |
|----------------------|----------|----------------------------------|
| Annual Experiated C3 | YUI TIVI | 2.370 of replacement value |

Reinvestments of **\$59.0 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$8.4M** per year or **2.5%** of asset replacement value are incurred to operate Long Term Care facilities and equipment and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



What do the Infrastructure Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Long Term Care



| | Current State | | 10 Year Plan | | |
|----------------|---|---|---|--|-----------------------------|
| Service | Current Rating (2023) placement Value | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | Ř | SoGR | SoGR | |
| Long Term Care | | 286.6 | 56.3 | 59.0 | |

20 Year SoGR Outlook Long Term Care



State of good repair reinvestment needs are forecasted to increase in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

Asset Management Reinvestment Plan Housing Support

State of the Infrastructure Housing Support

Eight affordable housing buildings **Five** homeless shelters

Total Asset Replacement Value

\$422.8 Million

2021 Dollars

The Region owned Affordable Housing stock is relatively new. However, intensive use of the facilities requires that ongoing investments continue to maintain a liveable environment for residents and to blend with the surrounding community.

The shelters and homelessness support facilities are achieving the desired outcome of supporting safe, secure, temporary living services. These facilities experience intensive use and high turnover of residents and are constantly in need of significant repair and maintenance.

Condition of the Infrastructure



The average age of Housing Support assets is 20 years. The average age of Affordable Housing assets is 11 years and Homelessness Support assets is 34 years. Asset condition is calculated based on Building Condition Assessments for facilities and estimated service life for most other assets.

How is the Condition Graded?

F

| Α | New or like new condition |
|---|---|
| В | In a good state of repair |
| С | Some non-critical defects; some critical repairs in the near term |
| D | Some critical defects; many critical repairs in the near term |
| F | Many critical defects; immediate repair or replacement required |

| | Нои | using Support is currently achieving a rating of: Very Good |
|-----------|------------------------|--|
| | 80% Very God | |
| | | What do the Risk Management Ratings mean? |
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

Target Customer Levels of Service

Our customers should expect...

Prompt, efficient, and effective property management services.

A safe, well maintained, amenable living environment meeting all legislative requirements.

Provision of basic needs, protection, referral, and the alleviation of trauma associated with homelessness to those in emergency shelters.

Immediate, 24-hour access to shelters, and a safe, secure temporary living environment meeting all legislative requirements





Infrastructure Reinvestment Plan Housing Support

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|----------------------------|------------------|--------------|
| Total Reinvestment (SoGR) | \$18.0M | \$18.0M |
| Values are in 2023 dollars | | |
| | | |

Operations and Maintenance Expenses

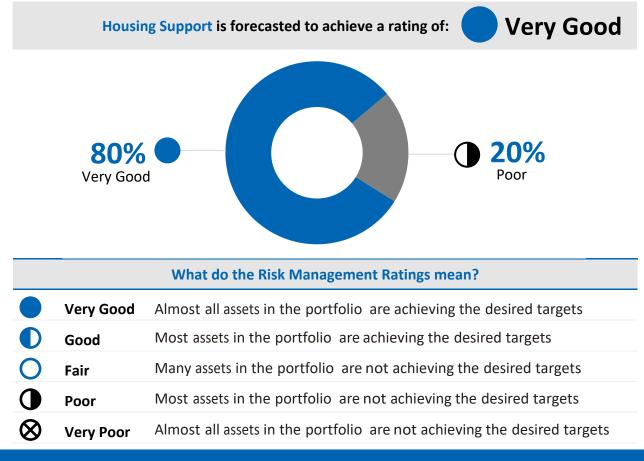
| Annual Expenditures | \$5.1M | 1.0% of replacement value |
|---------------------|--------|------------------------------------|
| Annual Experiatures | 22.TIM | 1.0 /0 of replacement value |

Reinvestments of **\$18.0 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. Overall, the infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

The infrastructure reinvestments in the Region owned Affordable Housing Capital Plan are more than forecasted reinvestment needs. The infrastructure reinvestments in the Homelessness Support Capital Plan are lower than forecasted reinvestment needs. The differences are primarily due to updated information that will be included in the next reporting cycle.

Operations and Maintenance expenses of approximately **\$5.1M** per year or **1.0%** of asset replacement value are incurred to operate Housing Support facilities and equipment and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



10 Year Summary Housing Support



| | Current State | | 10 Year Plan | | |
|-----------------|--|---|---|--|-----------------------------|
| Service | Current Rating (2023) placement Value :021 \$ Millions) | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | Å. | SoGR | SoGR | |
| Housing Support | | 422.8 | 18.0 | 18.0 | |

20 Year SoGR Outlook Housing Support

SoGR in Capital Plan ▼ Yr 1-10 (\$18.0M)



State of good repair reinvestment needs are forecasted to significantly increase in the next 20 years, which is expected in a portfolio of newer assets.

The infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs. The differences in the infrastructure reinvestments within the service areas is primarily due to updated information that will be included in the next reporting cycle.

Asset Management Reinvestment Plan Peel Housing Corporation

State of the Infrastructure Peel Housing Corporation

88 affordable housing buildings

Total Asset Replacement Value

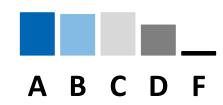
\$2.9 Billion

The affordable housing stock managed by Peel Housing Corporation has a diverse mix of dwelling types, ages, designs, building code conformities and locations. The portfolio is currently in good condition.

However, intensive use of the facilities requires that ongoing investments continue to maintain a liveable environment for residents and to blend with the surrounding community.

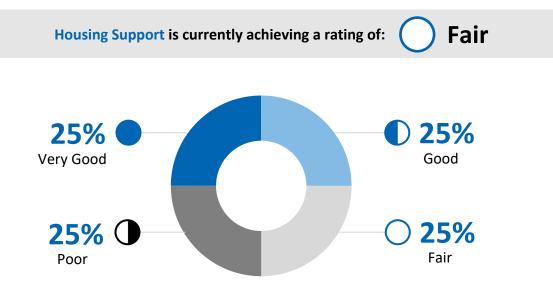
To address Peel's housing crisis the Region has developed a Housing Master Plan (HMP), a long term capital infrastructure plan to guide how to create more affordable housing in Peel. Once the HMP is implemented, it will add more than 5,650 new affordable rental units by 2034.

Condition of the Infrastructure



The average age of Peel Housing Corporation assets is 37 years. Asset condition is calculated based on building condition assessments for buildings.

| How is the Condition Graded? | | |
|------------------------------|---|--|
| Α | New or like new condition | |
| В | In a good state of repair | |
| С | Some non-critical defects; some critical repairs in the near term | |
| D | Some critical defects; many critical repairs in the near term | |
| F | Many critical defects; immediate repair or replacement required | |



What do the Risk Management Ratings mean?

| Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|--|
| Good | Most assets in the portfolio are achieving the desired targets |
| Fair | Many assets in the portfolio are not achieving the desired targets |
| Poor | Most assets in the portfolio are not achieving the desired targets |
| Very Poor | Almost all assets in the portfolio are not achieving the desired targets |
| | Good Fair Poor |

Target Customer Levels of Service

Our customers should expect...

Prompt, efficient, and effective property management services. A safe, well maintained, amenable living environment meeting all legislative requirements.



⁵ O. Reg. 588/17 related Levels of Service are presented in Appendix V

Infrastructure Reinvestment Plan Peel Housing Corporation

| 10 Year Reinvestment | Forecasted Needs | Capital Plan | |
|----------------------------|------------------|--------------|--|
| Total Reinvestment (SoGR) | \$701.4M | \$731.5M | |
| Values are in 2023 dollars | | | |

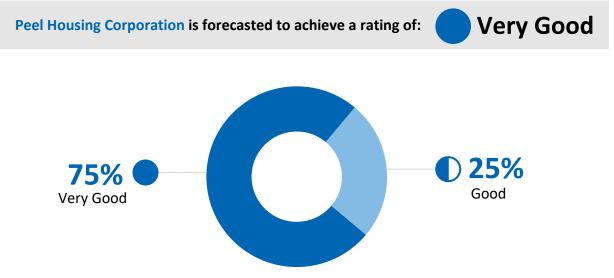
Operations and Maintenance Expenses

| Annual Expenditures | \$20.9M | 0.6% of replacement value |
|---------------------|---------|----------------------------------|
|---------------------|---------|----------------------------------|

Reinvestments of **\$731.5 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$20.9M** per year or **0.6%** of asset replacement value are incurred to operate facilities and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

"We are all asset managers"

10 Year Summary Peel Housing Corporation



| | Current State | | 10 Year Plan | | |
|-----------------------------|--------------------------|---|---|--|-----------------------------|
| Service | Current Rating (2023) | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | Ř | SoGR | SoGR | |
| Peel Housing Corporation | 0 | 2,858.0 | 701.4 | 731.5 | |

20 Year SoGR Outlook Peel Housing Corporation



State of good repair reinvestment needs are forecasted to increase slightly in the next 20 years.

The SoGR reinvestments in the Capital Plan are in line with the forecasted reinvestment needs.

Asset Management Reinvestment Plan Early Years and Child Care

State of the Infrastructure Early Years and Child Care

Three child care centres

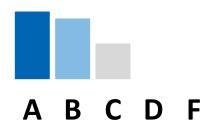
Total Asset Replacement Value

\$16.5 Million

2021 Dollars

The Child Care centres are in a good condition to support the private child care services. The Region of Peel has leased the facilities to independent child care providers.

Condition of the Infrastructure



The average age of Child Care centres is 50 years. Asset condition is calculated based on building condition assessments for facilities and on estimated service life for most other assets.

How is the Condition Graded?

| A New or like new cond | ition |
|------------------------|-------|
|------------------------|-------|

B In a good state of repair

- **C** Some non-critical defects; some critical repairs in the near term
- **D** Some critical defects; many critical repairs in the near term
 - **F** Many critical defects; immediate repair or replacement required

| | Early Years a | nd Child Care is currently achieving a rating of: OGOOD |
|------------------|-------------------|--|
| 50% Very Good | | |
| | | |
| | | What do the Risk Management Ratings mean? |
| | Very Good | What do the Risk Management Ratings mean? Almost all assets in the portfolio are achieving the desired targets |
| | Very Good Good | |
| • | _ | Almost all assets in the portfolio are achieving the desired targets |
| | Good | Almost all assets in the portfolio are achieving the desired targets Most assets in the portfolio are achieving the desired targets |

Target Customer Levels of Service

Our customers should expect...

Provision of high-quality licensed child care in a safe environment.

Provision of special needs resources to ensure all children have a positive and inclusive child care experience.

Fully accessible and equipped facilities to meet the daily requirements of children and caregivers.



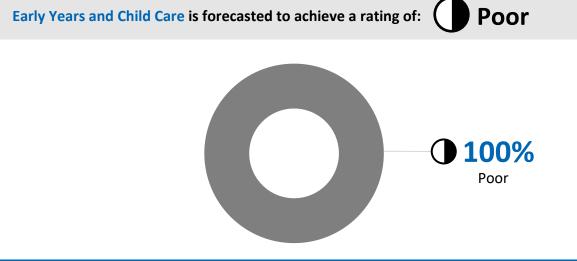
Infrastructure Reinvestment Plan Early Years and Child Care

| 10 Year Reinvestment | Forecasted Needs | Capital Plan |
|-------------------------------|------------------|----------------------------------|
| Total Reinvestment (SoGR) | \$8.3M | \$6.6M |
| Values are in 2023 dollars | | |
| Operations and Mainter | nance Expenses | |
| Annual Expenditures | \$0.1M | 0.9% of replacement value |

Reinvestments of **\$6.6 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are lower than the forecasted reinvestment needs. The Child Care Centres are part of the Housing Master Plan (HMP) for development, and therefore the reinvestments are adequate for service delivery needs. Additional funds are allocated for operations and maintenance to bridge operations until the implementation of the HMP.

Operations and Maintenance expenses of approximately **\$0.1M** per year or **0.9%** of asset replacement value are incurred to operate facilities and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



| | Wh | at do the Infrastructure Risk Management Ratings mean? |
|-----------|-----------|--|
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

10 Year Summary Early Years and Child Care



| | Curre | ent State | 10 Year Plan | | |
|-------------------------------|--------------------------|---|---|--|-----------------------------|
| Service | Current Rating (2023) | Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | Ř – | SoGR | SoGR | |
| Early Years and Child Care | | 10.8 | 8.3 | 6.6 | 0 |

20 Year SoGR Outlook Early Years and Child Care

SoGR in Capital Plan

▼ Yr 1-10 (\$6.6M)



State of good repair reinvestment needs are forecasted to significantly decrease in the next 20 years.

The SoGR reinvestments in the Capital Plan are lower than the forecasted reinvestment needs. The Child Care Centres are part of the HMP for development, and therefore the reinvestments are adequate for service delivery needs. Additional funds are allocated for operations and maintenance to bridge operations until the implementation of the HMP.

2023 Enterprise Asset Management Plan



Strategic Plan Area of Focus:

Government is futureoriented and accountable

What are the Region's goals in investing to build a **Community for Life**? Listening and incorporating the voice of residents and businesses in decision-making. Ensuring a secure and financially flexible future. Constantly developing new, better and less costly ways to deliver services that residents and businesses value. Seeking to attract and retain top talent as an employer of choice. And acting, always, to earn and keep our community's trust.

s 1.4 million residents and of Veel serves 1.4 million residents an tely 173,000 businesses in Brampton, nd Mississauga.

ooking for...

14.13

te calendar, carts and Community Recycling Vater & wastewater bills and payments

Health services for children, youth and adults Child care subsidy and early years support.

Financial help and Ontario Works TransHelp trip bookings and cancellation

Bids and tenders for vendors

Regional Council meetings, agendas and minutes Jobs at the Region of Peel

The Strategic Plan

More services

Asset Management Reinvestment Plan Regional Office Complexes

State of the Infrastructure Regional Office Complexes

Two Regional office complexes

Total Asset Replacement Value

\$289.7 Million 2021 Dollars

Most of the Regional office buildings are relatively young and in good condition.

The original building at 10 Peel Centre Drive (Suite A) is 42 years old and requires higher levels of capital to maintain. Suite A remains viable to provide Regional services.

Condition of the Infrastructure



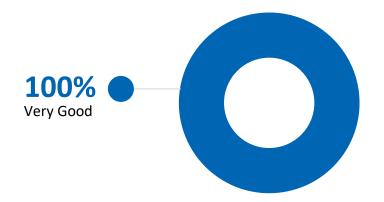
The average age of Regional Office Complexes assets is 24 years. Asset condition is calculated based on building condition assessments for facilities and based on estimated service life for most other assets.

A B C D F

How is the Condition Graded?

- **B** In a good state of repair
- **C** Some non-critical defects; some critical repairs in the near term
- **D** Some critical defects; many critical repairs in the near term
 - **F** Many critical defects; immediate repair or replacement required

| Regional Office Complexes is currently achieving a rating of: | Very Good |
|---|-----------|
| | |



| | | What do the Risk Management Ratings mean? |
|-----------|-----------|--|
| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| \bullet | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

Target Customer Levels of Service

Our customers should expect...

Regional properties are maintained at an acceptable level of cleanliness and in a state of good repair.

Customer concerns are promptly addressed.



Infrastructure Reinvestment Plan Regional Office Complexes

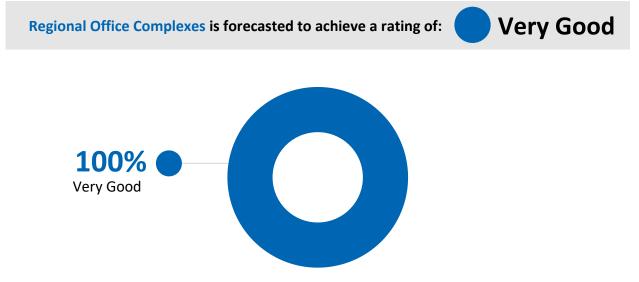
| 10 Year Reinvestment | Forecasted Needs | Capital Plan | |
|----------------------------|-------------------------|--------------|--|
| Total Reinvestment (SoGR) | \$49.3M | \$50.0M | |
| Values are in 2023 dollars | | | |

Operations and Maintenance Expenses

Reinvestments of **\$50.0 Million** are planned over the next 10 years to maintain the infrastructure in a state of good repair. The infrastructure reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

Operations and Maintenance expenses of approximately **\$1.4M** per year or **0.4%** of asset replacement value are incurred to operate Regional Office Complexes and conduct maintenance activities on the assets. These costs are considered as part of whole lifecycle strategies development and will continue to be optimized as asset management information and technology improve.

If the Reinvestments in the Capital Plan are made over 10 years, in 2032...



What do the Risk Management Ratings mean?

| | Very Good | Almost all assets in the portfolio are achieving the desired targets |
|-----------|-----------|--|
| | Good | Most assets in the portfolio are achieving the desired targets |
| 0 | Fair | Many assets in the portfolio are not achieving the desired targets |
| 0 | Poor | Most assets in the portfolio are not achieving the desired targets |
| \otimes | Very Poor | Almost all assets in the portfolio are not achieving the desired targets |

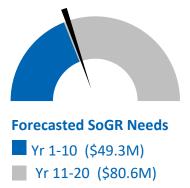
10 Year Summary Regional Office Complexes

| | L . |
|--|-----|
| | |
| | |
| | |
| | |
| | |

| | Current State | | 10 Year Plan | | |
|------------------------------|--------------------------|--|---|--|-----------------------------|
| Service | Current Rating (2023) | Rating (2023) Replacement Value (2021 \$ Millions) | Forecasted Reinvestment Needs (2023 \$ Millions) | 2023-2032 Capital Plan Reinvestments (2023 \$ Millions) | Forecasted Rating (2032) |
| | | | SoGR | SoGR | |
| Regional Office Complexes | | 289.7 | 49.3 | 50.0 | |

20 Year SoGR Outlook Regional Office Complexes

SoGR in Capital Plan ▼ Yr 1-10 (\$50.0M)

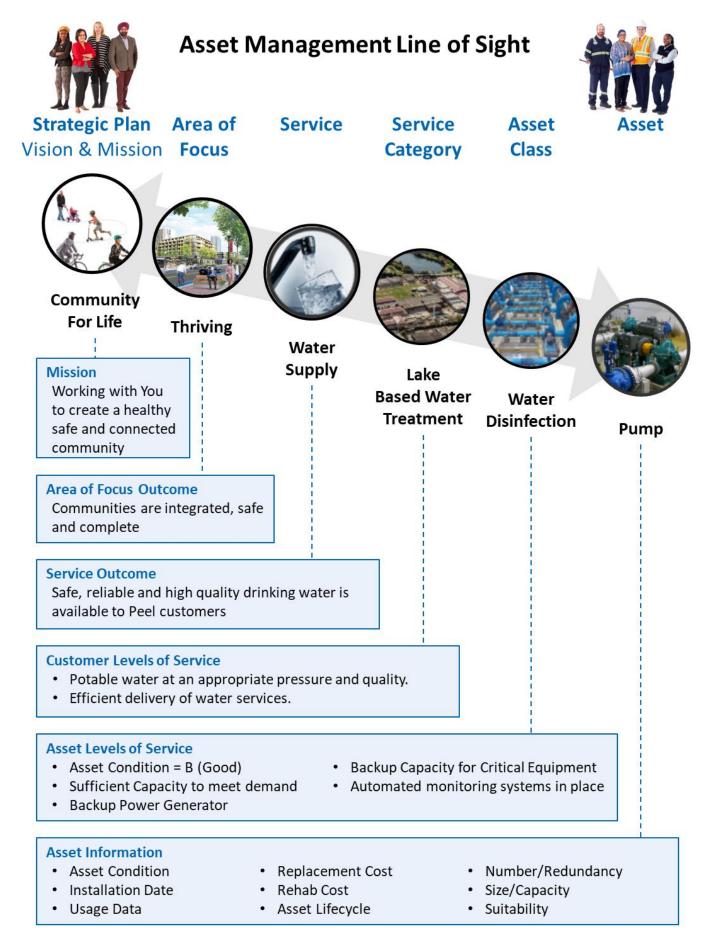


State of good repair reinvestment needs are forecasted to increase significantly in the next 20 years which is typical as the portfolio ages.

The SoGR reinvestments in the Capital Plan are in line with forecasted reinvestment needs.

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"We are all asset managers" - Appendix I



Appendix I - 2023 Enterprise Asset Management Plan

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Reading Guide

Interpreting the Infrastructure Risk Management Ratings

The Infrastructure Risk Management Ratings indicate the state of the assets relative to the target levels of service and the risk they are presenting to service delivery. The ratings consider approved funding that is available for State of Good Repair (SoGR) and Performance Enhancement projects.

The ratings and the accompanying explanations are provided to give a sense of how much excess risk exists within an infrastructure portfolio. Since the rating is measured at a portfolio level, the health and performance of individual assets may vary widely within the larger infrastructure portfolio.



Very Good State – Almost all assets are achieving the desired targets.



Good State – Most assets are achieving the desired targets.

Fair State – Many assets are not achieving the desired targets.



Poor State – Most assets are not achieving the desired targets.



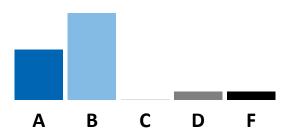
Very Poor State – Almost all assets are not achieving the desired targets.

Interpretation Examples:

In a Very Good State: Almost all assets are at or near Asset Level of Service targets and therefore, the risk to services is at a desired or acceptable level.

In a **Poor State**: Most assets are not achieving Asset Level of Service targets and therefore the risk to services is significantly higher than desired.





This indicator breaks down the distribution of asset condition across a standardized grading system (A-F). The Condition (SoGR) scores only represent the physical heath of the assets and unlike the Risk Management Ratings, do not consider currently approved funding.

Asset condition is graded based on combination of asset age, expected life, condition assessment data, and current life cycle strategies as is appropriate for each type of asset.

Most assets have Level of Service targets which should keep them 'in a good sate of repair' (B) or better, though some assets have lower targets which allow their condition to deteriorate further, provided that the customer level of service is not impacted and that it lowers the total cost providing the service. Since different assets have different targets, this indictor does not indicate the level of risk to services which is illustrated by the Infrastructure Risk Management Rating.

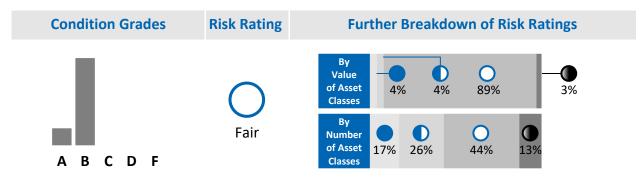
- A New or like new condition
- **B** In a good state of repair
- **C** Some non-critical defects; some critical repairs in the near term
- Some critical defects; many critical repairs in the near term
- F Many critical defects; immediate repair or replacement

Comparing Risk Management Ratings and Condition Grades

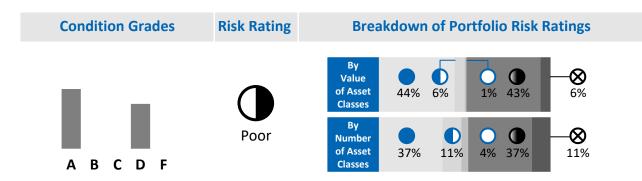
Condition Grades and **Risk Ratings** are especially powerful metrics when viewed together. One metric alone does not tell the whole story.



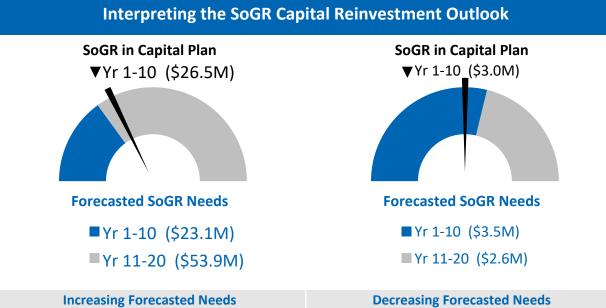
An asset portfolio with assets which have **critical defects** in their condition may be **Very Good** in terms of risk if council has already approved funding to address the condition of the assets.



An asset portfolio with all assets in a **good state of repair** may be **Fair** in terms of risk if there are performance issues for which Council has not approved funding to address, such as a lack of backup capacity or failure to meet accessability requirements.



An asset portfolio with assets which have **critical defects** in their condition may be **Poor** in terms of risk if there are condition and/or performance issues for which there is no approved funding to address.



10-year Capital Plan is Above Forecasted Needs

Decreasing Forecasted Needs 10-year Capital Plan is Below Forecasted Needs

This indicator provides a 20-year perspective of infrastructure investment needs. The intent is to show the general reinvestment requirements beyond the 10-year capital plan and aid decision-makers to assess future infrastructure trends and related resourcing requirements. This could include increasing or decreasing requirements for financing, maintenance and operations, internal project management staff, or external suppliers and contractors.

The black needle indicates how the planned reinvestments in the 10-year Capital Plan align with the forecasted reinvestment needs. A difference does not mean anything is wrong. The planned reinvestments do not always align with the forecasted needs. There can be good reasons for this, such as:

- new information from studies and condition assessments have become available
- there have been increases or decreases in asset costs
- there have been recent Council decisions or changes in regulations which need to be accounted for
- investments in assets are being strategically delayed or advanced for various reasons including:
 - to smooth resourcing needs over the longer term
 - to align projects internally or with external parties
 - to avoid reinvestments in assets which will be decommissioned

The Enterprise Asset Management Strategy

The Enterprise Asset Management Strategy defines how the Asset Management Policy is implemented. The Strategy outlines how infrastructure is assessed and how infrastructure needs are identified and prioritized in a consistent way across the entire organization. The Enterprise Asset Management Strategy is made up of four sub-strategies:

Level of Service Strategy

The Level of Service Strategy links an assets' condition and performance to the level of service it provides to the customer. Asset levels of service targets are set to enable the delivery of service outcomes the public is expecting to receive. The Asset Levels of Service are approved by Council under the Asset Management Policy.

Risk Management Strategy

The Risk Management Strategy supports informed decisions across a very complex and diverse portfolio of assets. Asset risk is directly related to whether an asset meets level of service targets. Risk helps to prioritize infrastructure investments and maximize return on investments. When a service is exposed to asset related risk beyond the tolerances of Council, the assets generating the high-level of risk become a priority for infrastructure investments.

Lifecycle Management Strategy

The Lifecycle Management Strategy provides a means to forecast both how an asset will measure up against level of service targets and future asset investment needs. As assets age their health deteriorates and their ability to meet level of service targets decreases. The amount of risk to the service delivery is directly related to the degree to which assets don't meet level of service targets. Asset investments are used to improve the health or replace an asset. Asset lifecycles are unique to each type of asset and include replacement and refurbishment strategies. Replacement strategies identify the optimal time to replace an asset. Both replacement and refurbishment strategies maximize the Region's return on asset investments. Lifecycles allow the Region to forecast risk and investment needs.

Asset Replacement Values

Asset Replacement values are required as part of asset lifecycles. Replacement values are estimates of the realistic cost to replace an asset at current day standards. Asset lifecycles require asset replacement values to forecast asset investment needs.

Corporate Reporting on Asset Management

The Reporting Strategy defines the requirements of Corporate level reporting which is undertaken annually to give an organization wide perspective on the Region of Peel's infrastructure needs and priorities to enable better, more informed strategic planning and decision-making.

Levels of Service

Defined Levels of Service are an integral part of the Region of Peel's Enterprise Asset Management Strategy. Levels of Service allow for the assessment of both financial requirements and risk. The Region's Enterprise Asset Management Strategy uses two tiers of Levels of Service:

Customer Levels of Service

Customer Levels of Service (CLOS) describe how a service is expected to be received by the customer and sets non-technical service targets. The Region considers factors including health and safety, adequacy, quantity, quality, and other social, financial, and environmental factors when defining CLOS.

Asset Levels of Service

Asset Levels of Service (ALOS) are specific and measurable. The Region sets ALOS targets at levels which mitigate the risk of the Region not delivering on the CLOS targets. Some ALOS are discretionary and can be adjusted to suit Council's risk tolerance. Other ALOS are regulatory requirements. All ALOS are endorsed by Regional Council under Peel's Asset Management Policy. The level of risk to services is determined according to the degree to which the assets are not meeting desired ALOS targets. The Region's Enterprise Asset Management Strategy utilizes two types of Asset Levels of Service:

Asset Condition Levels of Service

Condition Levels of Service measure the physical "health" of the assets. Measures on the condition of the asset can include pipe breaks, pavement wear, roof leaks, foundation cracks, equipment malfunctions and failures. The Condition Levels of Service can be forecasted using lifecycle models. Capital projects to improve the condition of the assets generally involve major rehabilitation or replacement of the assets.

Asset Performance Levels of Service

Performance Levels of Service measure the "suitability" of the assets. They assess the assets' or asset systems' ability to provide sufficient quality and quantity of service and/or have adequate capacity to reasonably protect against external risks to services. Performance Levels of Service can include ensuring adequate pipe capacities, acceptable heating and cooling of building units, adequate back-up capacity in the event of primary system failures and adequate measures to protect the environment. Capital projects to improve the performance of an asset or system can include replacing and upgrading an old asset with more modern technology, reconfiguring assets, or adding additional assets to the system.

Risk Management

Finding the balance between ensuring that the Region's infrastructure is in a state to support the Region's desired Service Outcomes and doing so at the least possible cost to the residents of Peel is about managing risk. The Region could try to maintain all assets in as good as new condition, but that would be financially unrealistic for the residents of Peel. At the other extreme, the Region could stop reinvesting in the infrastructure, but then the Region would not be able to provide the services that residents rely on. Risk management is the tool to find the balance between these extremes.

The risk management approach looks at infrastructure related threats to the Region's Services and assesses the level of risk using consequence and likelihood.

Consequence is the impact that a potential threat could have on the Region's goals. Consequence is assessed using a standardized scoring guide on a scale from 'Insignificant' to 'Severe' and looks at potential:

- Strategic and long-term impacts to the community
- Corporate image and reputational impacts to the Region
- Environment impacts
- Health and safety impacts to employees and the public
- Third party impacts
- Operational impacts and the continuity of service
- Financial impacts to the Region

Likelihood is the probability that the consequences of a potential threat will be experienced. Likelihood is assessed using a standardized scoring guide on a scale from 'Rare' to 'Certain'. The asset levels of service reduce the likelihood of potential threats to the Region's goals to within council's risk tolerance.

The Enterprise Asset Management Strategy uses the risk-managementbased approach to:

- Identify the assets that are putting the Region's service outcomes and goals at undue risk because of condition and performance deficiencies as measured by the asset level of service targets.
- Prioritize asset reinvestments to minimize the risk to service from potential asset failures and impaired asset performance.

Lifecycles

Defined asset lifecycles allow for the forecasting of asset related risk to service and the capital requirements of rehabilitations and replacements. They are also used to estimate the current condition of assets where condition inspections are not possible or current condition data is not available.

Lifecycles are calibrated to specific types of assets and are extensively tested and validated with program staff to ensure they represent current best practices and are aligned with the risk models. Lifecycles include strategies for the major rehabilitation and replacement of assets. They are developed with planned maintenance practices in mind. The lifecycles assume that the programs are actively managing the assets between treatments, by undertaking the planned maintenance activities. The lifecycles are calibrated with actual asset data, and changes in maintenance practices are reflected in the assumptions. The lifecycle assumptions are reviewed annually, and the lifecycles are re-calibrated as needed to consider new practices, changing technologies, and new asset information.

There are four broad types of lifecycle models used:

No Deterioration: This model is used when a measure is not expected to change over time without intervention. Performance levels of service and some condition levels of service are static measures. This model may drive a current need but will never forecast a future need.

Estimated Service Life (ESL): This model is used when there is insufficient data to develop lifecycle curves for an asset class, or there is no cost benefit to do so. ESL models can include rehabilitations which extend the asset life at defined trigger points. Assets are replaced when they reach the end of life.

Lifecycle Curve: This model is used when sufficient data, in house knowledge, or industry knowledge exists to plot the change of an ALOS over time. Lifecycle Curve Models can include rehabilitations which improve the level of service of an asset. Assets are replaced when either they reach a defined ALOS target or reach a defined end of service life.

Forward Works: This model is used for facilities. Detailed Building Condition Assessments (BCAs) are used to forecast a Facility Condition Index (FCI). Rehabilitations occur when the FCI passes a trigger point defined by the ALOS.

All lifecycle models require asset class specific data to run. Asset data is evaluated and updated annually and includes the following data at a minimum:

- Asset ID and/or Name;
- Asset condition, installation data, Estimate Service Life, and/or Forward Works Plan;
- Asset Replacement and Rehabilitation costs; and
- Asset specific attributes (i.e. material type, size, location etc.)

Asset Replacement Values

The asset replacement value is the cost that would be incurred to replace the capital asset in its current configuration based on market and industry prices today. A variety of cost estimation approaches are applied to the asset inventory to derive the replacement values depending on the availability of data.

Price Indices

Asset costs are required to be represented in current and future values. Where current infrastructure costs are not available, a price index is applied to historical costs.

Price Indices from Stats Canada are used to bring the assets replacement values to current dollars. Forecasted price indices are used to project replacement and rehabilitation costs for longterm reserve sustainability modelling according to Region of Peel standards.

Corporate Reporting

Corporate reporting provides an organization-wide perspective on the Region of Peel's infrastructure needs. This reporting helps decisionmakers prioritize infrastructure reinvestment and enables better, more informed strategic planning and decision-making. Varying levels of reporting are provided to different stakeholder groups to best support the decisions that they need to make.

Detailed reporting is provided to asset managers throughout the Region to support the development of the Capital Plan.

Organization wide executive asset management reporting is provided to the senior leadership to support strategic decision-making.

Service focused reporting is provided to Regional Council to support Council decisions, meet current and future regulatory requirements, and to instill public confidence in the Region as stewards of the infrastructure. This reporting ensures that the public is aware of the state of the Region's infrastructure and how any associated risks are being managed.

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| Asset | Level of Service | What Does It Mean? | Туре |
|--------|--|---|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Intake | Security system in place and 24/7 monitoring | Physical controls to prevent contamination. | Performance |
| | Backup capacity for all critical equipment (electrical and mechanical). Provide sufficient backup pump capacity. | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing an unplanned critical equipment failure. | Performance |
| | Backup capacity for all critical equipment (electrical and mechanical): Provide sufficient redundant screen capacity. Able to meet average day capacity with largest unit out of service. | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing an unplanned critical equipment failure. | Performance |
| | Secondary intake gate | A secondary intake is needed to provide redundancy and allow for maintenance on the intake system. | Performance |
| | Improved protection of sampling and chemical lines | To protect sampling lines that deliver chemicals to the intake system. Chlorination at the intake is needed to prevent the accumulation of zebra mussels, which can cause clogging of screens and equipment damage. | Performance |
| | Backup capacity for intake | A secondary intake is needed to provide redundancy and allow for maintenance on the intake system. | Performance |
| | Provide redundant power supply | Two power feed lines into the plant, to enhance resiliency to power failure. | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|-----------------------|---|---|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Pre-Treatment | Security Systems in place and 24/7 monitoring | Monitor activity within the plant | Performance |
| | Backup capacity for all critical equipment (electrical and mechanical): provide sufficient redundant treatment capacity. Plant operating capacity not exceeding 95% of total rated capacity plus reasonable back up capacity for all critical treatment process. | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing an unplanned critical equipment failure. Plant capacity utilization must not greater than 95%. If plant operating demands exceed 95%, a plant expansion may be needed. | Performance |
| | Provide capacity and technology to produce water of suitable quality: provide sufficient pre-treatment system capacity to convert raw water to acceptable levels for efficient treatment. Plant operating capacity not exceeding 95% of total rated capacity plus reasonable back up capacity for all critical treatment process. | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing an unplanned critical equipment failure. Plant capacity utilization must not greater than 95%. If plant operating demands exceed 95%, a plant expansion may be needed. | Performance |
| | Provide redundant power supply | Two power feed lines into the plant, to enhance resiliency to power failure | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Security system in place and 24/7 monitoring | Physical controls to prevent contamination. | Performance |
| Water Disinfection | Backup capacity for all critical equipment (electrical and mechanical) | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Provide redundant power supply | Two power feed lines into the plant, to enhance resiliency to power failure | Performance |
| | Provide capacity and technology to produce water of suitable quality | Plant capacity utilization must not greater than 95%. If plant operating demands exceed 95%, a plant expansion may be needed. | Performance |
| | Automated monitoring systems in place | Monitor activity within the plant | Performance |
| | | | |

| Asset | Level of Service | What Does It Mean? | Туре |
|--------------------------|--|--|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Security system in place and 24/7 monitoring | Physical controls to prevent contamination. | Performance |
| | Provide capacity and technology to produce water of suitable quality | Plant capacity utilization must not greater than 95%. If plant operating demands exceed 95%, a plant expansion may be needed. | Performance |
| Filtration | Backup capacity for all critical equipment (electrical and mechanical) | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Provide redundant power supply | Two power feed lines into the plant, to enhance resiliency to power failure | Performance |
| | Automated monitoring systems in place | Monitor activity within the plant | Performance |
| | Low turbidity water for backwashing | Provision of enough clear water to allow for backwashing (cleaning) of filtering media | Performance |
| | Sufficient backwash water | Provision of enough clear water to allow for backwashing (cleaning) of filtering media | Performance |
| | Reservoir Condition Score = B (2.5) | Maintain Plant Reservoir in Good Condition (as per Reservoir Score Matrix) | SoGR |
| | Security system in place and 24/7 monitoring | Physical controls to prevent contamination. | Performance |
| Treated Water Storage | Reservoir Performance Score = B (2.5) | Reservoir to meet safety, hydraulic and security standards | Performance |
| | Provide sufficient on-site storage capacity | Spare/excess capacity must be present to continue to store enough water to meet demand and maintain system pressure demands | Performance |
| | Backup capacity for all critical equipment | Plant can continue to operate with the loss of a reservoir cell | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---------------------|--|--|-------------|
| Chemical Systems | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Security system in place and 24/7 monitoring | Physical controls to prevent contamination. | Performance |
| | Backup capacity for all critical equipment (electrical and mechanical) | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Provide capacity and technology to produce water of suitable quality | Plant capacity utilization must not greater than 95%. If plant operating demands exceed 95%, a plant expansion may be needed. | Performance |
| | Provide redundant power supply | Two power feed lines into the plant, to enhance resiliency to power failure | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Security system in place and 24/7 monitoring | Physical controls to prevent contamination. | Performance |
| High Lift Pumps | Backup capacity for all critical equipment (electrical and mechanical) | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Provide redundant power supply | Two power feed lines into the plant, to enhance resiliency to power failure | Performance |
| | Provide adequate pressure during maximum day demands periods | Provide sufficient system capacity to maintain acceptable pressure within the water distribution system | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|--|-------------|
| Plant Wide Support Systems | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Provide Standby Power | Enough Standby Power to operate for 36 hours without electricity | Performance |
| | Backup capacity for all critical equipment (electrical and mechanical) | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Provision of redundant network components (WAN) | Backup Network Components to prevent loss of connection | Performance |
| | Automatic redundant infrastructure | Backup for critical SCADA components | Performance |
| | Provision of redundant network components (WAN) | Backup SCADA servers in case of server failure | Performance |
| Water Treatment Automation Systems | Replace hardware before obsolescence | Replace hardware before it becomes less efficient/ not compatible with systems | Performance |
| (SCADA) | Provide Standby Power (UPS) | Enough Standby Power to operate for 36 hours without electricity | Performance |
| | Provide redundant power supply | Two power feeds to the SCADA network components | Performance |
| | Physical security on SCADA assets (Lock-ins & Block-outs) | Network is physically secured to prevent unauthorized access | Performance |
| | Server and switch configuration to block and detect unauthorized access | Network Security to prevent unauthorized access | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|-----------------------|---|--|-------------|
| Wells | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| wens | Must meet design capacity | Well can meet water treatment demand | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Must meet design capacity | Well can meet water treatment demand | Performance |
| Well Pumps | Provide sufficient capacity to ensure a minimum service flow and pressure of 50 psi during maximum day demands periods | Provide sufficient system capacity to maintain acceptable pressure and flow within the water distribution system | Performance |
| | Provide back up pump capacity | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Well Disinfection | Provide backup capacity for all critical process components | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| Walla Davia | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Wells Power Supply | Standby Power for critical systems | enough water to meet demand, while addressing a critical equipment failure. Replace assets when they are no | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|--|---|--|-------------|
| Groundwater Booster Pumps | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Back up pump capacity | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Maintain a minimum pressure of 50 psi during maximum day demand periods | Provide sufficient system capacity to maintain acceptable pressure within the water distribution system | Performance |
| | Standby Power for critical systems | Enough Standby Power to operate for 36 hours without electricity | Performance |
| Groundwater Water StorageReservoir Condition Score = B (2.5)Condition (as per Reservoir S Matrix)Reservoir Performance Score = B (2.5)Maintain Reservoirs and Standpipes to meet safety, | Reservoir Condition Score = B (2.5) | Maintain Elevated Tank in Good Condition (as per Reservoir Score Matrix) | SoGR |
| | | Performance | |

| Asset | Level of Service | What Does It Mean? | Туре |
|--|---|--|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Provision of redundant network components (WAN) | Backup Network Components to prevent loss of connection | Performance |
| | Automatic redundant infrastructure | Backup for critical SCADA components | Performance |
| | Provision of redundant network components | Backup SCADA servers in case of server failure | Performance |
| Ground Water Systems Automation Systems | Replace hardware before obsolescence | Replace hardware before it becomes less efficient/ not compatible with systems | Performance |
| (SCADA) | Provide Standby Power | Enough Standby Power to operate for 36 hours without electricity | Performance |
| | Provide redundant power supply | Two power feeds to the SCADA network components | Performance |
| | Physical security devices | Network is physically secured to prevent unauthorized access | Performance |
| | Server and switch configuration to block and detect unauthorized access | Network Security to prevent unauthorized access | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Water Pumping Station | Back up pump capacity | Spare/excess capacity must be present to continue to treat enough water to meet demand, while addressing a critical equipment failure. | Performance |
| | Maintain a minimum pressure of 50 psi and Fire Flow during maximum day demand periods | Provide sufficient system capacity to maintain acceptable pressure and flow within the water distribution system | Performance |
| | Standby Power for critical systems | Enough Standby Power to operate for 36 hours without electricity | Performance |
| | Secondary Disinfection System for Rechlorination | Rechlorinate water within reservoir if needed | Performance |

| - | | | |
|---|---|--|--|
| Level of Service | What Does It Mean? | Туре | |
| Reservoir Condition Score = B (2.5) | Maintain Elevated Tank in Good Condition (as per Reservoir Score Matrix) | SoGR | |
| Reservoir Performance Score = B (2.5) | Elevated Tank to meet safety, hydraulic and security standards | Performance | |
| Reservoir Condition Score = B (2.5) | Maintain Reservoir in Good Condition (as per Reservoir Score Matrix) | SoGR | |
| Reservoir Performance Score = B (2.5) | Reservoir to meet safety, hydraulic and security standards | Performance | |
| Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR | |
| Provision of redundant network components (WAN) | Backup Network Components to prevent loss of connection | Performance | |
| Automatic redundant infrastructure | Backup for critical SCADA components | Performance | |
| Provision of redundant network components | Backup SCADA servers in case of server failure | Performance | |
| Replace hardware before obsolescence | Replace hardware before it becomes less efficient/ not compatible with systems | Performance | |
| Provide Standby Power | Enough Standby Power to operate for 36 hours without electricity | Performance | |
| Provide redundant power supply | Two power feeds to the SCADA network components | Performance | |
| Physical security devices | Network is physically secured to prevent unauthorized access | Performance | |
| Server and switch configuration to block and detect unauthorized access | Network Security to prevent unauthorized access | Performance | |
| | Reservoir Condition Score = B (2.5)Reservoir Performance Score = B (2.5)Reservoir Condition Score = B (2.5)Reservoir Performance Score = B (2.5)Maintain Equipment at a Condition Rating = B (Good)Provision of redundant network components (WAN)Automatic redundant infrastructureProvision of redundant network componentsReplace hardware before obsolescenceProvide Standby PowerProvide redundant power supplyPhysical security devicesServer and switch configuration to block and detect unauthorized | Reservoir Condition Score = B (2.5)Maintain Elevated Tank in Good Condition (as per Reservoir Score Matrix)Reservoir Performance Score = B (2.5)Elevated Tank to meet safety, | |

| Asset | Level of Service | What Does It Mean? | Туре |
|--------------------------|--|--|-------------|
| Tier I Distribution | Maximum 2 breaks per segment of pipe | Replace watermain segment when it is anticipated to reach 2 breaks | SoGR |
| | Fire Flow Metric (Hydraulic Performance from DSS=1) | Provide enough water within the system to meet fire fighting needs | Performance |
| Mains | Maintain a minimum pressure of 40 psi during peak hour demand periods | Provide enough water within the system to meet fire fighting need Provide sufficient system capacit to maintain acceptable pressure within the water distribution system Replace watermain segment whe it is anticipated to reach 1 break Provide enough water within the system to meet fire fighting need Provide sufficient system capacit to maintain acceptable pressure within the water distribution system | Performance |
| | Maximum 1 break per segment of pipe | Replace watermain segment when it is anticipated to reach 1 break | SoGR |
| Tier II Distribution | Fire Flow Metric (Hydraulic Performance from DSS=1) | Provide enough water within the system to meet fire fighting needs | Performance |
| Mains | Maintain a minimum pressure of 40 psi during peak hour demand periods | Provide sufficient system capacity to maintain acceptable pressure within the water distribution | Performance |
| | Maximum 0 breaks per segment of pipe | | SoGR |
| Tier III Distribution | Fire Flow Metric (Hydraulic Performance from DSS=1) | Provide enough water within the system to meet fire fighting needs | Performance |
| Mains | Aains Maintain a minimum pressure of 40 psi during peak hour demand neriods | | Performance |

| Water | Supply |
|--------|--------|
| vvaler | Supply |

| Asset | Level of Service | What Does It Mean? | Туре |
|-----------------------------------|---|--|-------------|
| Tier II Feeder Mains | No Breaks | Replace before it is anticipated to break. Refining of TLOS is pending further condition assessment studies | SoGR |
| | Provide sufficient system capacity to meet average day demand during a failure event. | Provide sufficient system capacity to maintain acceptable pressure within the water distribution system | Performance |
| Tier III Feeder Mains | No Breaks | Replace before it is anticipated to break. Refining of TLOS is pending further condition assessment studies | SoGR |
| | Provide sufficient system capacity to meet average day demand during a failure event. | Provide sufficient system capacity to maintain acceptable pressure within the water distribution system | Performance |
| Tier II Transmission Mains | No Breaks | Replace before it is anticipated to break. Refining of TLOS is pending further condition assessment studies | Sogr |
| | Provide sufficient system capacity to meet average day demand during a failure event. | Provide sufficient system capacity to maintain acceptable pressure within the water distribution system | Performance |
| Tier III Transmission Mains | No Breaks | Replace before it is anticipated to break. Refining of TLOS is pending further condition assessment studies | SoGR |
| | Provide sufficient system capacity to meet average day demand during a failure event. | Provide sufficient system capacity to maintain acceptable pressure within the water distribution system | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|------------------------------------|---|---|-------------|
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Water Administrative Offices | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Water General Storage | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = C (Fair) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |

| Water | Su | nn | lv |
|--------|----|----|-----|
| vvalci | Ju | μμ | ı y |

| Asset | Level of Service | What Does It Mean? | Туре |
|----------------------------|---|---|-------------|
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Water Heavy Industrial | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Water Medium Industrial | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and is accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |

| Water | | Asset Levels of Service | |
|--|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Water Process Support Structures | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and is accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| Water Treatment Facilities Site Elements | Building Site Condition = B (Good) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |
| Water Transmission Facilities Site Elements | Building Site Condition = B (Good) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |

| Asset | Level of Service | What Does It Mean? | Туре |
|------------------------------------|--|--|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Able to provide firm capacity. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| South Peel Headworks | Process operating capacity during dry weather flows not to exceed 90% of total capacity. | Plant flow under dry weather condition should not exceed 90% of the total design capacity. | Performance |
| | Presence of functional Gas detection and HVAC controls system. | Plant has equipment in place to remove and detect the buildup of harmful gases, and meets regulatory requirements | Performance |
| | Secondary electrical supply and standby power for secondary process equipment. | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| South Peel Primary Treatment | Sufficient Hydraulic Capacity to avoid bypass during maximum peaking factor | Plant has enough capacity to prevent overflows of partially treated effluent to the environment | Performance |
| | Secondary electrical supply and standby power for secondary process equipment. | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| | Able to provide firm capacity. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Process operating capacity during dry weather flows not to exceed 90% of total capacity. | Plant flow under dry weather condition should not exceed 90% of the total design capacity. | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---------------------------------------|--|---|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Sufficient Hydraulic Capacity to avoid bypass during maximum peaking factor. | Plant has enough capacity to prevent overflows of partially treated effluent to the environment | Performance |
| South Peel Secondary | Secondary electrical supply and standby power for secondary process equipment. | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| Treatment | Able to provide firm capacity. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Process operating capacity during dry weather flows not to exceed 90% of total capacity. | Plant flow under dry weather condition should not exceed 90% of the total design capacity. | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| South Peel Disinfection Systems | Provide reasonable onsite chemical storage. Able to provide firm capacity. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Secondary electrical supply and standby power for secondary process equipment | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| | Able to provide firm capacity | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Disinfection system to operate at peak wet weather flows | Enough disinfection capacity is available to treat increased sewage volumes during significant weather events (e.g. rainstorms). Disinfection must be maintained during overflow conditions. | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|-------------------------------------|--|--|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| South Peel Biosolids | Able to provide firm capacity | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| Processing | Capacity exceeding loading | Plant flow under dry weather condition should not exceed 90% of the total design capacity. | Performance |
| | Secondary electrical supply and standby power for secondary process equipment | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| South Peel Biosolids Disposal | Able to provide firm capacity | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Capacity exceeding loading | Plant flow under dry weather condition should not exceed 90% of the total design capacity. | Performance |
| | Secondary electrical supply and standby power for secondary process equipment | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| South Peel | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Plant Wide Support Systems | Secondary electrical supply and standby power for all critical process and life safety assets. | Enough Standby Power to operate for 36 hours without electricity and secondary power feed | Performance |
| | Secondary water supply feeds | Enough capacity for potable water | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---------------------------------------|--|---|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Provision of redundant network components (WAN) | Backup Network Components to prevent loss of connection | Performance |
| | Automatic redundant infrastructure | Backup for critical SCADA components | Performance |
| Wastewater Treatment Automation | Replace hardware before obsolescence | Replace hardware before it becomes less efficient/ not compatible with systems | Performance |
| Systems (SCADA) | Provide Standby Power | Enough Standby Power to operate for 36 hours without electricity | Performance |
| | Provide redundant power supply | Two power feeds to the SCADA network components | Performance |
| | Physical security devices | Network is physically secured to prevent unauthorized access | Performance |
| | Server configuration to block and detect unauthorized access | Network Security to prevent unauthorized access | Performance |
| Tier I Collection Sewers | Maintain PACP Condition Grade = Level 3 | Replace when sewer is no longer in good condition | SoGR |
| | No surcharging of pipes in a 5-year rainfall event | Have sufficient excess capacity to prevent sewage overflows during a 5-year storm event | Performance |
| | Overflows are alarmed and monitored | Alarm to alert staff of overflows | Performance |
| Tier II Collection Sewers | Maintain PACP Condition Grade = Level 3 | Replace when sewer is no longer in good condition | SoGR |
| | No surcharging of pipes in a 5-year rainfall event | Have sufficient excess capacity to prevent sewage overflows during a 5-year storm event | Performance |
| | Overflows are alarmed and monitored | Alarm to alert staff of overflows | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|--|---|---|-------------|
| Tier III Collection Sewers | Maintain PACP Condition Grade = Level 3 | Replace when sewer is no longer in good condition | SoGR |
| | No surcharging of pipes in a 5-year rainfall event | Have sufficient excess capacity to prevent sewage overflows during a 5-year storm event | Performance |
| | Overflows are alarmed and monitored | Alarm to alert staff of overflows | Performance |
| | Maintain PACP Condition Grade = Level 3 | Replace when sewer is no longer in good condition | SoGR |
| | No surcharging of pipes in a 5-year rainfall event | Have sewers of sufficient capacity to prevent surcharging | Performance |
| Tier II Trunk Sewers | Access to sewers | Sewers must be accessible for maintenance | Performance |
| | Slope Erosion protection around creeks and rivers (geomorphology) | Prevent trunk sewers from being exposed by erosion | Performance |
| | Overflows are alarmed and monitored | Alarm to alert staff of overflows | Performance |
| | Maintain PACP Condition Grade = Level 3 | Replace when sewer is no longer in good condition | SoGR |
| | No surcharging of pipes in a 5-year rainfall event | Have sewers of sufficient capacity to prevent surcharging | Performance |
| Tier III Trunk Sewers | Access to sewers | Sewers must be accessible for maintenance | Performance |
| | Slope Erosion protection around creeks and rivers (geomorphology) | Prevent trunk sewers from being exposed by erosion | Performance |
| | Overflows are alarmed and monitored | Alarm to alert staff of overflows | Performance |
| Odour and Corrosion Control Systems | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SogR |

| Wastewater | | Asset Levels of Service | |
|--|---|--|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| Forcemains | No Breaks | Replace before breaks could occur. Refining of TLOS is pending further condition assessment studies | SoGR |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Overflows are alarmed & monitored | Alarm to alert staff of overflows | Performance |
| | Overflows are operable | Overflow work to direct spills into designed location | Performance |
| Wastewater Tier I Pumping Stations | Backup capacity for all critical equipment (mechanical): Able to meet peak demands with largest pump out of service. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Provision for a portable generator or sufficient wet well storage to meet ROP design standards and Ministry of the Environment regulations. | Sufficient storage to mitigate the risk of overflows in the event of forcemain failure | Performance |
| | Required wet well storage as per ROP design standards. | Enough Standby Power to operate without electricity or enough storage to prevent overflows | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Overflows are alarmed & monitored | Alarm to alert staff of overflows | Performance |
| Wastewater Tier II & III Pumping Stations | Overflows are operable | Overflow work to direct spills into designed location | Performance |
| | Backup capacity for all critical equipment (mechanical): Able to meet peak demands with largest pump out of service. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|--|---|--|-------------|
| Wastewater Tier IV Pumping Stations | Required wet well storage according to station Tier as per ROP design standards. | Sufficient storage to mitigate the risk of overflows in the event of forcemain failure | Performance |
| | Ensure standby power or sufficient wet well storage to meet ROP design standards and Ministry of the Environment regulations. | Enough Standby Power to operate without electricity or enough storage to prevent overflows | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Overflows are alarmed & monitored | Alarm to alert staff of overflows | Performance |
| | Overflows are operable | Overflow work to direct spills into designed location | Performance |
| Wastewater Tier III Pumping Stations | Backup capacity for all critical equipment (mechanical): Able to meet peak demands with largest pump out of service. | Spare/excess capacity must be present to continue to treat sewage, while addressing an unplanned critical equipment failure. | Performance |
| | Required wet well storage as per ROP design standards. | Sufficient storage to mitigate the risk of overflows in the event of forcemain failure | Performance |
| | Ensure standby power and sufficient wet well storage to meet ROP design standards and Ministry of the Environment regulations. | Enough Standby Power to operate without electricity or enough storage to prevent overflows | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|---|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Wastewater | Replace hardware before obsolescence | Replace hardware before it becomes less efficient/ not compatible with systems | Performance |
| Pump Station Automation Systems | Provide Standby Power | Enough Standby Power to operate for 36 hours without electricity | Performance |
| (SCADA) | Provide redundant power supply | Two power feeds to the SCADA network components | Performance |
| | Physical security devices | Network is physically secured to prevent unauthorized access | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Wastewater Administrative Offices | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

| Wastewater | | Asset Levels of Service | |
|------------------------------------|---|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Wastewater Heavy Industrial | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| industrial | Building Environment and Security = C (Fair) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Wastewater Maintenance Shops | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|---|-------------|
| Wastewater Treatment Process Support Structure | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = C (Fair) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| Wastewater Treatment Facilities Site Elements | Accessibility Features = C (Fair) | Building meets service accessibility needs | SoGR |
| Wastewater Collection Process Support Structure | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|---|-------------|
| Wastewater Tier II & II Pumping Stations | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Wastewater Tier III Pumping Stations | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| Wastewater Collection Facilities Site Elements | Building Site Condition = B (Good) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |

Operations Yards, Fleet and Equipment

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|---|-------------|
| PW & Corporate Light & Medium Duty Vehicles | Maintain Equipment at a Condition Rating B (Good) | Replace assets when they are no longer in good condition | SoGR |
| PW & Corporate Heavy-Duty Vehicles & Equipment | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| PW & Corporate Standard (or small) Equipment | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| PW & Corporate Trailers | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Operations Support Administrative Offices | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

| Asset | Level of Service | What Does It Mean? | Туре |
|--|--|---|-------------|
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Dperations Support General Storage | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | Performance |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Operations Support Light ndustrial | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |

Operations Yards, Fleet and Equipment

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|---|-------------|
| Operations Support Ancillary Storage | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = D (Poor) | Maintain appropriate interior appearance and curb appeal | Performance |
| | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| U | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| Operations Support Facilities Site Elements | Building Site Condition = C (Fair) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |
| | Building Condition = B (Fair) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| Orenetiene | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Operations Support Fuel Islands | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = C (Fair) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |

| Heritage, Arts and Culture | | Asset Levels of Service | |
|----------------------------|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards and codes (e.g. Fire Code, Building Code) | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| PAMA Facilities | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| PAMA Site Elements | Building Site Condition = B (Good) | Maintain Building Site in an acceptable Condition (as per Condition Index) | SoGR |

Waste

| Asset | Level of Service | What Does It Mean? | Туре |
|--------------------------|---|---|-------------|
| Material Recovery | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Redundancy on most critical equipment. | Plant can still operate if some of the equipment fails | Performance |
| | 2 days on-site material storage capacity on tipping floor | To accommodate temporary loss of processing capacity | Performance |
| Equipment | Standby Power | Some Standby power to operate if electricity is lost | Performance |
| | Achievement of design throughput and market specifications for sorted materials | Must have enough equipment and right configuration to produce materials which meet market specifications | Performance |
| Transfer Stations | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Redundancy on critical equipment | Plant can still operate if some of the equipment fails | Performance |
| | 1-3 days storage requirements on tipping floor | To accommodate temporary storage of materials | Performance |
| | Standby Power | Some Standby power to operate if electricity is lost | Performance |
| Composting and Curing | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Redundancy in Processing | Plant can still operate if some of the equipment fails | Performance |
| CRCs | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | On-site storage in Transtors and bins (1 day) | To accommodate temporary storage of materials | Performance |

| Waste | | | |
|--|---|--|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Pumping and Treatment Systems | Backup capacity for all critical equipment (mechanical) | Can continue to operate if largest piece of equipment fails | Performance |
| | Overflows are operable | Overflow work to sadirect spills into designed location | Performance |
| Gas Collection | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| System | Standby Power | Standby power to operate if electricity is lost | Performance |
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Provision of redundant network components (WAN) | Backup Network Components to prevent loss of connection | Performance |
| | Automatic redundant infrastructure | Backup for critical SCADA components | Performance |
| | Provision of redundant network components | Backup SCADA servers in case of server failure | Performance |
| Gas Collection Automation Systems (SCADA) | Replace hardware before obsolescence | Replace hardware before it becomes less efficient/ not compatible with systems | Performance |
| | Provide Standby Power | Enough Standby Power to operate for 36 hours without electricity | Performance |
| | Provide redundant power supply | Two power feeds to the SCADA network components | Performance |
| | Physical security devices | Network is physically secured to prevent unauthorized access | Performance |
| | Server and switch configuration to block and detect unauthorized access | Network Security to prevent unauthorized access | Performance |

Waste

| Asset | Level of Service | What Does It Mean? | Туре |
|---------------------------------------|--|---|-------------|
| | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Curbside Collection Carts | Sufficient redundancy (spares) to meet demand | Spares must be present to meet demand in the event of an asset failure | Performance |
| Multi- | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Residential Collection Carts | Sufficient redundancy (spares) to meet demand | Spares must be present to meet demand in the event of an asset failure | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Waste Management Administrative | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| Offices | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

| Waste | | Asset Levels of Serv | |
|------------------------------------|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| Waste | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| Management Process | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Support Structures | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| Waste Management Process | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| Support Structures | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Waste Management CRC Dropoff | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

| Waste Asset Levels of S | | s of Service | |
|---|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| Waste Management | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Retail Spaces | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| Waste Management | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| Retail Spaces | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Waste Management Processing and Transfer | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |

| Waste | | Asset Levels of Service | |
|---|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| Waste Management Landfill | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| Pumping Stations | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| Waste Management Landfill Pumping Stations | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| Waste Management Non-CRC Facilities Site Elements | Building Site Condition = B (Good) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |
| Waste Management CRC Facilities Site Elements | Building Site Condition = B (Good) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |

Roads and Transportation

| Asset | Level of Service | What Does It Mean? | Туре |
|--------------------------------------|---|---|-------------|
| Roads | Minimum pavement condition index = 72 | Regional Roads to be kept in good condition | SoGR |
| Bridges and Grade Separations | Minimum bridge condition index = 91 | Maintain Structures in Good Condition | SoGR |
| Major Culvert | Minimum condition index = 91 | Maintain Structures in Good Condition | SoGR |
| Regional Noise Walls | Minimum overall rating = C (Fair) | Walls must be maintained in fair condition | SoGR |
| Regional Retaining Walls | Minimum overall rating = C (Fair) | Walls must be maintained in fair condition | SoGR |
| Storm Sewers | Maintain PACP Condition Grade = Level 3 for storm sewers | Replace when storm sewer is no longer in good condition | SoGR |
| Storm Ponds | Maintain Equipment at a Condition Rating = B (Good) | Equipment is maintained in a good condition | SoGR |
| Manufactured Treatment Devices | Maintain Equipment at a Condition Rating = B (Good) | Equipment is maintained in a good condition | SoGR |
| Stormwater Pumping Stations | Maintain Equipment at a Condition Rating = B (Good) | Equipment is maintained in a good condition | SoGR |
| | Backup capacity for all critical equipment (mechanical) | Can continue to operate if largest piece of equipment fails | Performance |
| | Secondary forcemain or storage capacity | Twinned or enough capacity to prevent overflows | Performance |

| Roads and Transportation | | Asset Levels of Servi | |
|---|--|--|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Building Condition - Based on Facility Condition Index | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building's compliance with current code | Performance |
| Stormwater | Facility Finishes and Fixtures = C (Fair) | Condition of Finishes and Fixtures | Performance |
| Pumping Stations Facilities | Capacity and Change Adaptability for Program Requirements = B (Good) | Building Capacity and suitability to service delivery | Performance |
| | Building Environment and Security = B (Good) | Site and Security | Performance |
| | Building Amenities for Service Delivery = C (Fair) | Amenities suitability for Service Delivery | Performance |
| | Accessibility Features = C (Fair) | Building Accessibility | Performance |
| Stormwater Pumping Station Facilities Site Elements | Building Site Condition = B (Good) | Maintain site in an acceptable Condition (as per Condition Index) | SoGR |

| TransHelp | | Asset Level | s of Service |
|-----------------|-----------------------------|--|--------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| TransHelp Fleet | Condition Rating = B (Good) | Replace fleet when it reaches its estimated service life | SoGR |

| | Asset Levels of Service | |
|--|--|---|
| Level of Service | What Does It Mean? | Туре |
| Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good)Building Quality and Relationship to Current Standards = C (Fair)Facility Finishes and Fixtures = B (Good)Capacity and Change Adaptability for Program Requirements = B (Good)Building Environment and Security = B (Good)Building Amenities for Service Delivery = B (Good)Accessibility Features = B (Good)Building Quality and Relationship to Current Standards = C (Fair)Facility Finishes and Fixtures = B (Good)Capacity and Change Adaptability for Program Requirements = B (Good)Building Condition = B (Good)Building Quality and Relationship to Current Standards = C (Fair)Facility Finishes and Fixtures = B (Good)Building Environment and Security = B (Good)Building Environment and Security = B (Good)Building Amenities for Service Delivery = B (Good) | Building Condition = B (Good)Maintain Building in an acceptable Condition (as per Facility Condition Index)Building Quality and Relationship to Current Standards = C (Fair)Building meets current standardsFacility Finishes and Fixtures = B |

Paramedic Services

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|--|------|
| Paramedics Facilities Site Elements | Building Site Condition = B (Good) | Maintain Building Site in an acceptable Condition (as per Condition Index) | SoGR |
| Medical Equipment | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Emergency Response Vehicles | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Administrative Vehicles | Maintain Equipment at a Condition Rating = B (Good) | Replace assets when they are no longer in good condition | SoGR |

| Long Term Care | | Asset Levels of Service | |
|--|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Long Term Care Centres | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| Long Term Care Centres Site Elements | Building Site Condition = B (Good) | Maintain Building Site in an acceptable Condition (as per Condition Index) | SoGR |

| Housing Support | | Asset Levels of Servic | |
|---|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Peel Region High Density Affordable | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| Housing | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SogR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| Peel Region Medium Density Affordable Housing | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

Housing Support

| Asset | Level of Service | What Does It Mean? | Туре |
|--|---|--|-------------|
| Peel Region Affordable Housing Facility Site Elements | Maintain Building Site in an Building Site Condition = B (Good) acceptable Condition (as per Condition Index) | | SoGR |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Shelter Facilities | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| Shelter Facilities Site Elements | Building Site Condition = B (Good) | Maintain Building Site in an on = B (Good) acceptable Condition (as per Condition Index) | |

| Peel Housing Corporation (PHC) | | Asset Levels of Service | |
|-------------------------------------|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| PHC High Density Affordable | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| Housing | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| PHC Medium Density Affordable | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| Housing | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

| Peel Housing Corporation (PHC) | | Asset Levels of Servi | |
|--|--|---|-------------|
| Asset Level of Service | | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = C (Fair) | Maintain appropriate interior appearance and curb appeal | Performance |
| PHC Low Density Affordable | Capacity and Change Adaptability for Program Requirements = C (Fair) | Building has space and room to grow as needed | Performance |
| Housing | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| PHC Affordable Housing Facilities Site Elements | Building Site Condition = B (Good) | Maintain Building Site in an acceptable Condition (as per Condition Index) | SoGR |
| | | | |

IV-45

| Early Years and | Child Care |
|------------------------|------------|
|------------------------|------------|

| Asset | Level of Service | What Does It Mean? | Туре |
|---|--|--|-------------|
| Peel Region Child Care | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| Centre Facilities | Building Quality and Relationship to Current Standards = C (Fair) | Building's compliance with current code | Performance |
| Peel Region Child Care Centre Building Site Condition = B (Good) Facilities Site Elements | | Maintain Building Site in an acceptable Condition (as per Condition Index) | SoGR |

| Regional Office Complex | | Asset Levels of Servic | |
|--|--|---|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Headquarters Facilities | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |
| Headquarters Facilities Site Building Site Condition = B (Good) Elements | | Maintain Building Site in an acceptable Condition (as per Condition Index) | SoGR |

| Police Asset Levels of Ser | | | |
|-----------------------------------|--|--|-------------|
| Asset | Level of Service | What Does It Mean? | Туре |
| Administrative Vehicles | Maintain Equipment at a Condition Rating =B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Emergency Response Vehicles | Maintain Equipment at a Condition Rating =B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Investigative vehicles | Maintain Equipment at a Condition Rating =B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Specialty Vehicles | Maintain Equipment at a Condition Rating =B (Good) | Replace assets when they are no longer in good condition | SoGR |
| Critical Specialty Vehicles | Maintain Equipment at a Condition Rating =B (Good) | Replace assets when they are no longer in good condition | SoGR |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Administrative and | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| Operations Facilities | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = B (Good) | Building meets service accessibility needs | Performance |

| Police Asset Levels of Ser | | | |
|---------------------------------------|--|---|-------------|
| Asset | Levels of Service | What Does it Mean? | Туре |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Divisions | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility features = B (Good) | Building meets service accessibility needs | Performance |
| | Building Condition = B (Good) | Maintain Building in an acceptable Condition (as per Facility Condition Index) | SoGR |
| | Building Quality and Relationship to Current Standards = C (Fair) | Building meets current standards | Performance |
| | Facility Finishes and Fixtures = B (Good) | Maintain appropriate interior appearance and curb appeal | Performance |
| Training Facility | Capacity and Change Adaptability for Program Requirements = B (Good) | Building has space and room to grow as needed | Performance |
| | Building Environment and Security = B (Good) | Building and site have appropriate security and built environment to support services | Performance |
| | Building Amenities for Service Delivery = B (Good) | Building has appropriate amenities for staff and the public, and can be accessed easily | Performance |
| | Accessibility Features = C (Fair) | Building meets service accessibility needs | Performance |
| Police Facilities Site Elements | Building Site Condition = B (Good) | Maintain Building Site in an acceptable Condition (as per Facility Condition Index) | SoGR |

Appendix IV - 2023 Enterprise Asset Management Plan

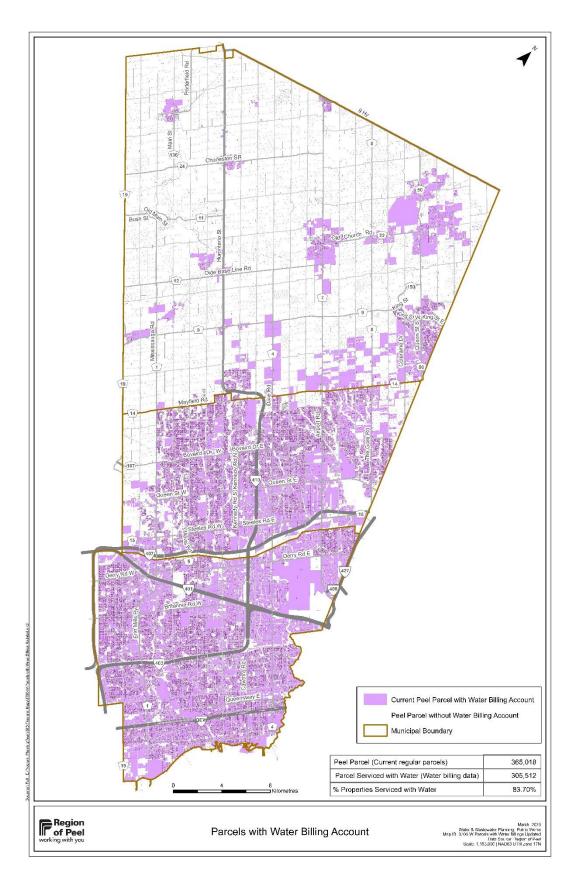
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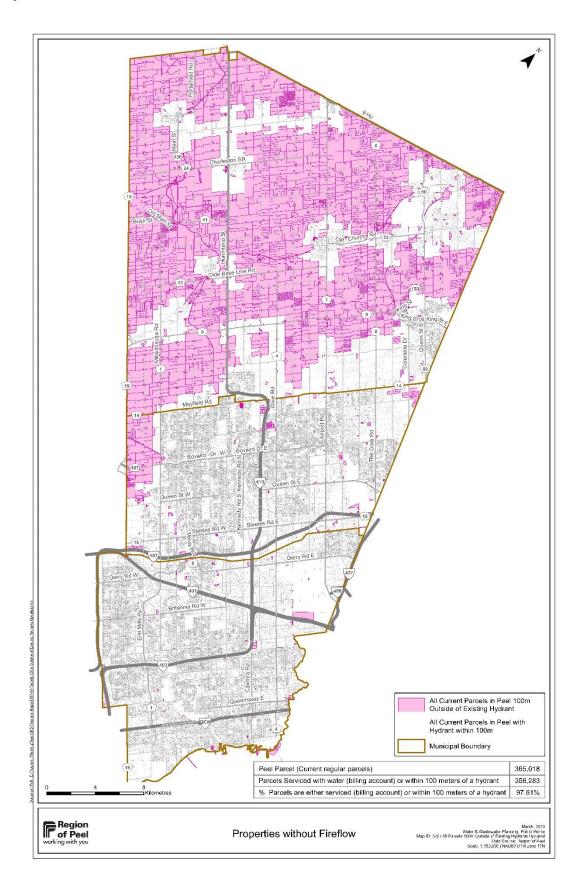
Additional Levels of Service

In addition to the Council approved Levels of Service, the following Community Levels of Service (Qualitative Description) and Technical Levels of Service (Technical Metrics) are in accordance with compliance with the Ontario Regulation 588/17 for Asset Management Planning.

| Water S | Supply Community Levels | s of Service | Levels of Technical Levels of Se | |
|--------------------------------|---|--------------------------|---|--------|
| | Qualitative Des | cription | Technical Metrics | |
| Service Attribute: Scope | 1. Description, which may include maps, of the user groups or areas of the municipality that are connected to the municipal water system. | Please refer to Page V-2 | 1. Percentage of properties connected to the municipal water system. | 83.7% |
| Service Attı | 2. Description, which may include maps, of the user groups or areas of the municipality that have fire flow. | Please refer to Page V-3 | 2. Percentage of properties where fire flow is available. | 97.6% |
| Service Attribute: Reliability | 1. Description of boil water advisories and service | There was no Boil Water | 1. The number of connection-days per year where a boil water advisory notice is in place compared to the total number of properties connected to the municipal water system. | 0.0% |
| Service Attrib | interruptions. | Advisory Notice | 2. The number of connection-days per year due to water main breaks compared to the total number of properties connected to the municipal water system. | 0.003% |

Properties with Water Serving





Properties without Fire flow

| Wastewater Levels of Service | | | | |
|--------------------------------|--|--------------------------|--|----------------|
| | Community Level | s of Service | Technical Levels of | of Service |
| | Qualitative Des | cription | Technical Mea | isure |
| Service Attribute: Scope | 1.Description, which may include maps, of the user groups or areas of the municipality that are connected to the municipal wastewater system. | Please refer to Page V-7 | 1.Percentage of properties connected to the municipal wastewater system. | 82.8% |
| Service Attribute: Reliability | 1.Description of how combined sewers in the municipal wastewater system are designed with overflow structures in place which allow overflow during storm events to prevent backups into homes. | Not Applicable | 1.The number of events per year where combined sewer flow in the municipal wastewater system exceeds system capacity compared to the total number of properties connected to the municipal wastewater system. | Not Applicable |
| Service Attr | 2.Description of the frequency and volume of overflows in combined sewers in the municipal wastewater system that occur in habitable areas or beaches. | Not Applicable | 2.The number of connection-days per year due to wastewater backups compared to the total number of properties connected to the municipal wastewater system. | 0.1% |

| Wastew | | | | ls of Service |
|--------------------------------|--|---|--|---|
| | Community Level Qualitative Des | | Technical Levels | |
| Service Attribute: Reliability | 3.Description of how stormwater can get into sanitary sewers in the municipal wastewater system, causing sewage to overflow into streets or backup into homes. | Storm water can enter sanitary system via three distinct ways: a) Through holes and cracks in manholes and sewers often caused due to age (wear and tear) b) Through non- conforming connections to the sanitary system such as cross-connected downspouts or catch basins, etc. c) Through floor drains in flooded basement, or via top of the manholes in a flooded road, etc. Such situations happen only when the storm water management system is overwhelmed and is not capable to handle rainwater or river flow | 3.The number of effluent violations per year due to wastewater discharge compared to the total number of properties connected to the municipal wastewater system. | 0.001% (Includes Spills, Bypass or Overflows that exceed effluent quality limits prescribed in the Environmental Compliance Approval) |

V-5

Wastewater

Community Levels of Service

Qualitative Description

Storm water will always find a way to enter sanitary system. There is no practical way of stopping that. Hence, some allowance for storm water is considered during the design of sanitary sewers.

a) Peel has multiple programs that systematically and continuously ensure that the infrastructure is in a state of good repair, and that holes and cracks are fixed.

4.Description of how b) Peel has multiple programs to find and remedy non-conforming connections to the system including downspout disconnection program and fixing cross-connections.

c) Peel ensures that susceptible manholes to flooding are watertight and sealed, however, storm water management is most often not within the Region's mandate (Regional Roads only). Hence, once storm water management system is overwhelmed for any reason, it is likely that water will find a way into sanitary system which will quickly overwhelm the sanitary system as well.

5.Description of the effluent that is discharged from sewage Not Applicable treatment plants in the municipal wastewater system.

V-6

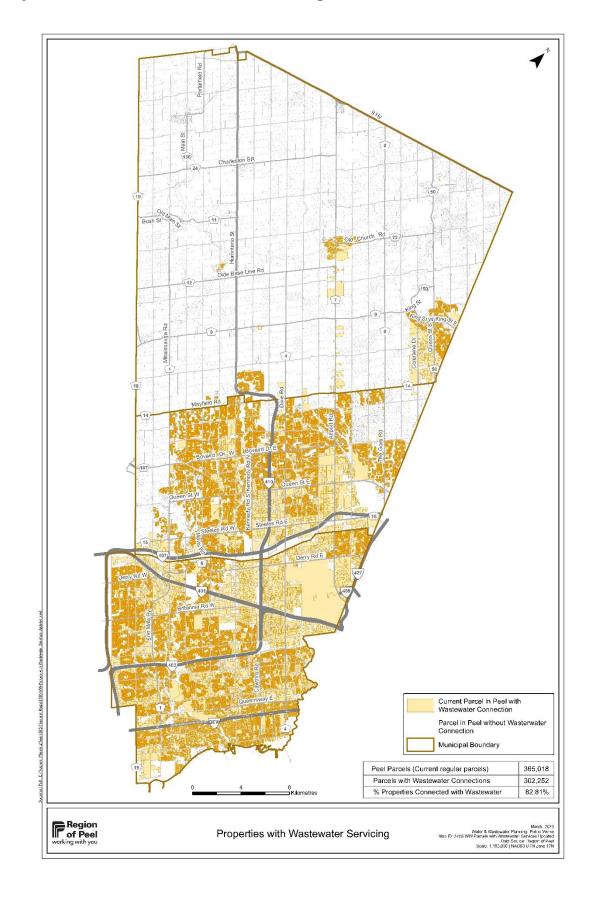
Levels of Service

Technical Levels of Service

Technical Measure

sanitary sewers in the municipal wastewater system are designed to be resilient to avoid events described in paragraph 3.

Service Attribute: Reliability



Properties with Wastewater Servicing

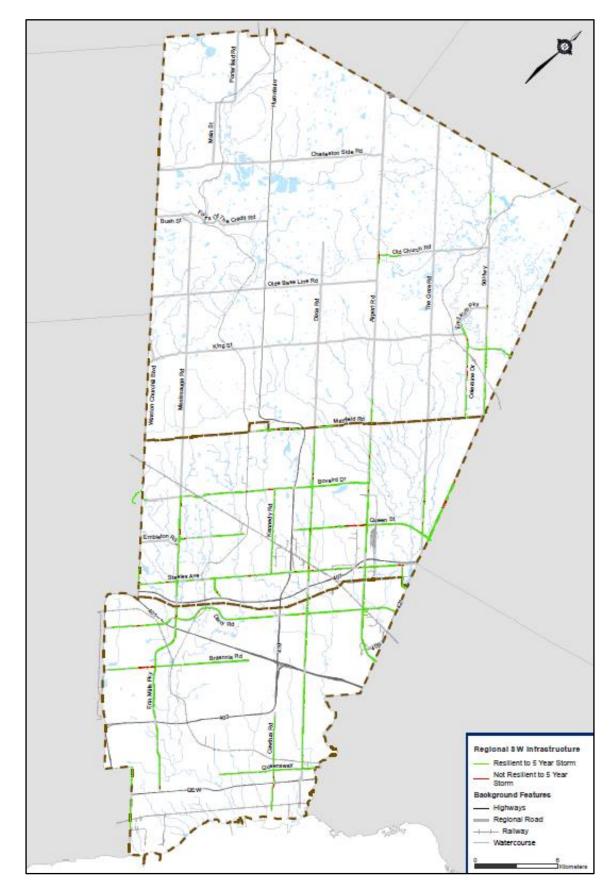
Stormwater Management

Levels of Service

| | Community Levels of Service | | Technical Levels of Service | |
|--------------------|--|--------------------------|--|----------------|
| | Qualitative Desc | cription | Technical Mea | sure |
| ttribute: Scope | 1. Description, which may include maps, of the user groups or areas of the municipality that are protected from flooding, including the extent of the protection provided by the municipal stormwater management system. | | 1. Percentage of properties in municipality resilient to a 100-year storm. | Not Applicable |
| Service Attribute: | | Please refer to Page V-9 | 2. Percentage of the municipal stormwater management system resilient to a 5-year storm. | 97% |

NOTE: The above metrics only includes Region owned infrastructure. For the Local Municipalities reported levels of service, please refer to their Asset Management Plans:

<u>City of Mississauga</u> <u>City of Brampton</u> Town of Caledon



Existing Stormwater Infrastructure

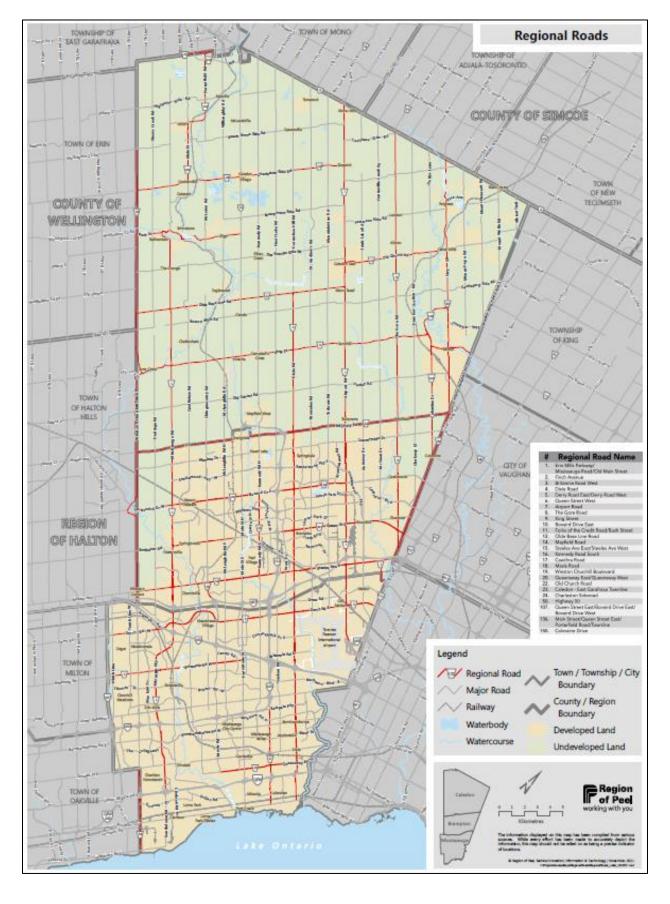
| Roads | | Level | Levels of Service | |
|----------------------------|--|---|---|---|
| | Communit | ty Levels of Service | Technical Levels of Service | |
| Service Attribute: Scope | Qualitative Description | | Technical Measure | |
| | 1. Description, which may include maps, of the road network in the municipality and its level of connectivity. | Please refer to Page V-11 | 1. Number of lane- kilometres of each of arterial roads, collector roads and local roads as a proportion of square kilometres of land area of the municipality. | 1.64 lane km |
| Service Attribute: Quality | 1. Description or images that illustrate the different levels of road class pavement condition. | Pavement Rating Scale (RCI): Very Good 88-100 Good 78 -87 Fair 66-77 Poor 46-65 Very Poor 0-45 | 1. For paved roads in the municipality, the average pavement condition index value. | 76.7 |
| | | | 2. For unpaved roads in the municipality, the average surface condition (e.g. excellent, good, fair | Not Applicable (No Unpaved Boads) |

or poor).

Roads)

NOTE: The above metrics only includes Region owned infrastructure. For the Local Municipalities reported levels of service, please refer to their Asset Management Plans:

City of Mississauga City of Brampton Town of Caledon



Existing Regional Road Network

Roads and Bridges

Community Levels of Service

Qualitative Description

Technical Levels of Service

Levels of Service

Technical Measure

| | | | | Vehicular = 0 % |
|----------------------------|--|---|--|--|
| Service Attribute: Scope | 1. Description of the traffic that is supported by municipal bridges (e.g., heavy transport vehicles, motor vehicles, emergency vehicles, pedestrians, cyclists). | Region owned bridges are located along Arterial roadways and support a variety of vehicular and pedestrian uses such as: - heavy and light commercial vehicles - passenger vehicles - emergency vehicles - public transit vehicles - pedestrians and cyclists | 1. Percentage of bridges in the municipality with loading or dimensional restrictions. | Vehicular = LRTP identifies road capacity needs, EA for specific road widening projects identifies bridge dimensional restrictions and alternatives. Pedestrian/Cycling: N/A |
| | | | | Dimensional = N/A |
| Service Attribute: Quality | 1. Description or images of the condition of bridges and how this would affect use of the bridges. | The Region rates the condition of bridges and major culverts (span greater than 3 m – structural culverts) using the MTO Bridge Condition Index (BCI) format. | 1. For bridges in the municipality, the average bridge condition index value. | 75.7 |
| | 2. Description or images of the condition of culverts and how this would affect use of the culverts. | Good (G): 70 <= BCl <= 100 Fair (F): 60 <= BCl <= 70 Poor (P): BCl < 60 | 2. For structural culverts in the municipality, the average bridge condition index value. | 76.7 |

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2023 Enterprise Asset Management Plan

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