



Committee Report

To: Warden Mitch Twolan
Members of the Transportation & Environmental Services
Committee

From: Miguel Pelletier
Director of Transportation & Environmental Services

Date: July 9, 2020

Re: Bridge Condition Assessment Results

Staff Recommendation:

The report Bridge Condition Assessment Results is for information.

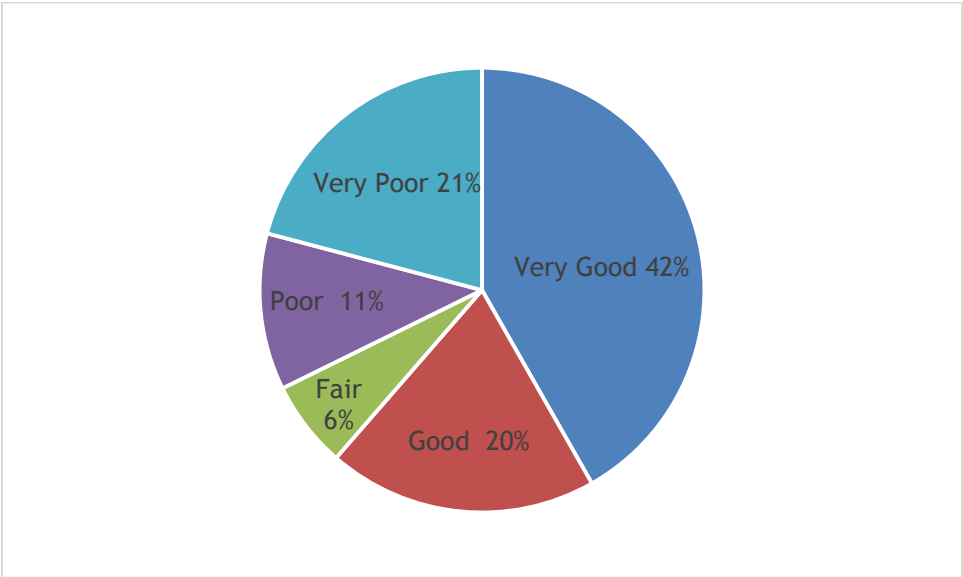
Background:

In accordance with Ontario Regulation 104/97, Standard for Bridges, all 155 County owned bridges (including culverts over 3m) are inspected every two years as per the Ontario Structure Inspection Manual (OSIM). The County appoints specialized Engineers to inspect one half of the County's bridge inventory in one year and the other half in the next. The latest inspections were carried out in 2018 and 2019 providing an assessment of the condition of County bridges. The assessment provides a Bridge Condition Index (BCI) for each bridge that indicates the condition of the bridge with a score between 0 and 100 where 0 indicates poor condition and 100 is excellent condition as defined in the OSIM.

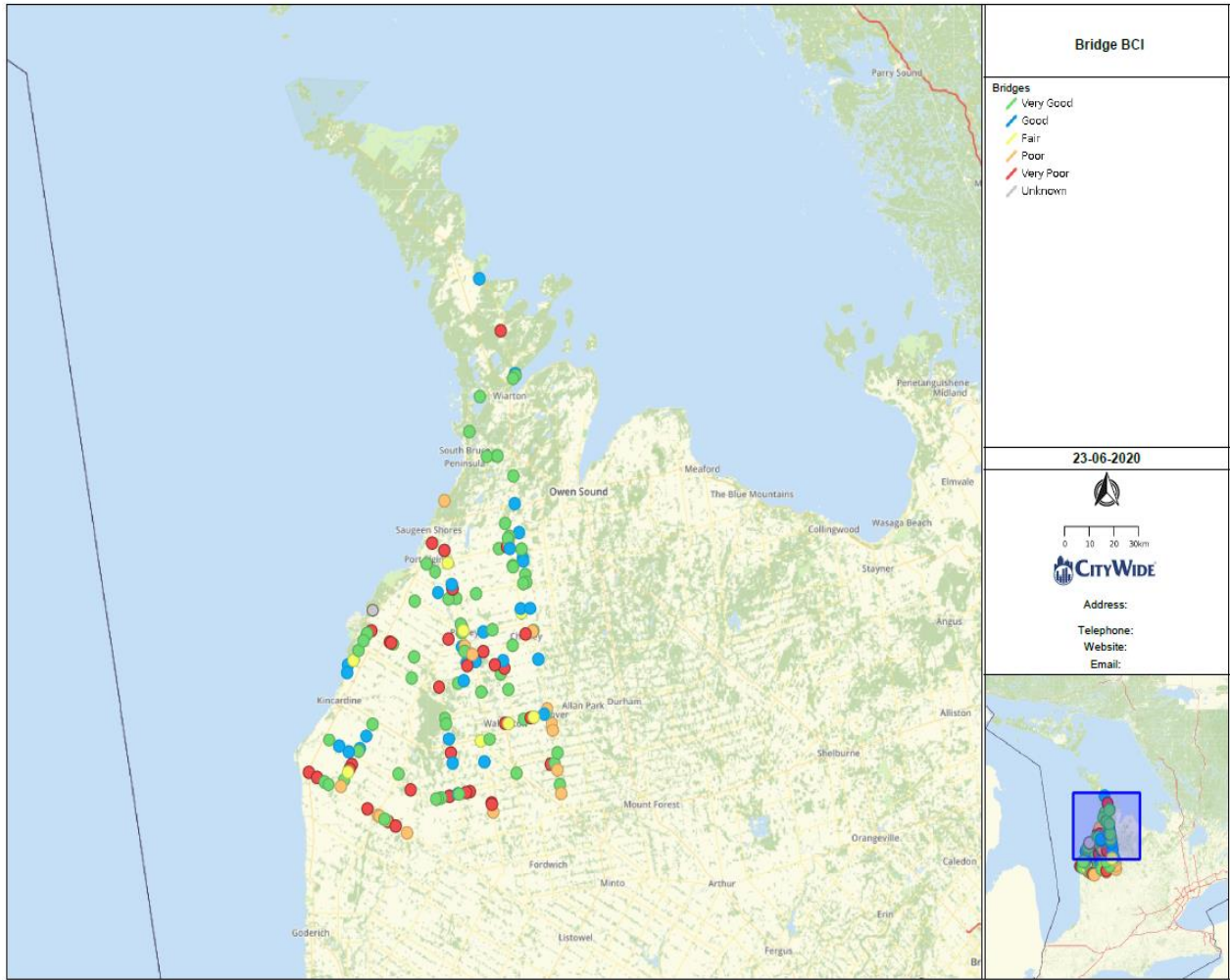
The BCI is a key performance indicator (KPI) in the 2020 Transportation and Environmental Services Business Plan with a target of 65% of our bridges in good or very good. The KPI is currently at 64 % and is expected to increase once the capital bridge projects for 2020 are complete. This goal will be reviewed as part of the 2021 Business Plan process. The average BCI is 61 which borderlines good condition. The condition categories are indicated below:

Condition	BCI
Very Good	>70
Good	60-70
Fair	50-60
Poor	40-50
Very Poor	<40

The chart below indicates the breakdown of the bridge portfolio by quantity in each condition category.



The following map shows the bridge portfolio and the condition category they are in.



The OSIM inspection report also provides recommendations for treatment to the bridge with a view to keeping the bridges in good condition or better. These recommendations are considered when developing the bridge maintenance and capital programs.

In summary, 62% of the County's bridges are in good or better condition. The current bridge capital funding strategy proposes a 2% increase annually to maintain the bridge portfolio at the 65% mark. The number of bridges in very poor condition category indicates that there will be a near term requirement to invest in major reconstruction or replacement projects to avoid extending bridge load restrictions, lowering the bridge load restriction, or, in the worst case scenario, closing the bridge. This has been identified in the Five-year capital bridge program. The bridge portfolio has been reassessed and 8 bridges that are in the very poor category have been identified as candidates for closure and/or removal as presented to this Committee on December 19, 2020. To get closer to 100% of bridges in good condition or better status, a long-term strategy (20 years or more) will be required to adjust the funding and resource allocation to close the infrastructure gap.

Financial/Staffing/Legal/IT Considerations:

The information from this report will be included in the Transportation and Environmental Services business planning and budget process for 2021 and will include a strategy to close the infrastructure gap.

There are no staffing, legal or IT considerations associated with this report.

Interdepartmental Consultation:

Not applicable

Link to Strategic Goals and Elements:

Goal #6 - Explore alternate options to improve efficiency, service.

Element #B - Develop system for measuring our processes and their successful desired outcome

Approved by:

A handwritten signature in black ink, appearing to read "Sandra Datars Bere". The signature is fluid and cursive, with the first name "Sandra" being the most prominent part.

Sandra Datars Bere
Chief Administrative Officer