



OPERATIONS COMMITTEE AGENDA

Operations Committee Meeting

Monday, March 1, 2021

Tom Davies Square - Council Chamber / Electronic Participation

COUNCILLOR DEB MCINTOSH, CHAIR

Mark Signoretti, Vice-Chair

2:00 p.m. OPERATIONS COMMITTEE MEETING
COUNCIL CHAMBER / ELECTRONIC PARTICIPATION

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ROLL CALL

DECLARATIONS OF PECUNIARY INTEREST AND THE GENERAL NATURE THEREOF

REGULAR AGENDA

PRESENTATIONS

1. Report dated February 16, 2021 from the General Manager of Growth and Infrastructure regarding Winter Control Operations Update - January 2021. **4 - 9**
(ELECTRONIC PRESENTATION) (FOR INFORMATION ONLY)
 - Brittany Hallam, Acting Director of Linear Infrastructure Services

(This presentation provides information regarding the financial results of the 2021 winter roads operations up to and including the month of January 2021.)
2. Report dated January 25, 2021 from the General Manager of Growth and Infrastructure regarding Winter Control Operations Update - December 2020. **10 - 15**
(ELECTRONIC PRESENTATION) (FOR INFORMATION ONLY)
 - Brittany Hallam, Acting Director of Linear Infrastructure Services

(This presentation provides information regarding the financial results of the 2020 winter roads operations up to and including the month of December 2020.)

MANAGERS' REPORTS

- R-1. Report dated February 16, 2021 from the General Manager of Growth and Infrastructure regarding Update to By-law 2020-20; Bridge Load Restriction By-law. **16 - 23**
(RESOLUTION PREPARED)

(This report provides a recommendation regarding amendments to By-law 2020-20 due to the completion of bridge replacement projects and new information regarding load postings.)

MEMBERS' MOTIONS

ADDENDUM

CIVIC PETITIONS

QUESTION PERIOD

ADJOURNMENT

Presented To:	Operations Committee
Presented:	Monday, Mar 01, 2021
Report Date	Tuesday, Feb 16, 2021
Type:	Presentations

For Information Only

Winter Control Operations Update - January 2021

Resolution

For Information Only

Relationship to the Strategic Plan / Health Impact Assessment

This report refers to operational matters.

Report Summary

This report is intended to provide a summary of winter maintenance activities for the month of January 2021, including financial variances. It is important to note that due to normal lags in receipt of costs related to these activities, final costs for this period may vary from the information reported at this time.

Financial Implications

This report provides the estimated financial results for the period ending January 31, 2021. The estimated results for January 2021 is a surplus of approximately \$1.5 million when compared to the draft 2021 year-to-date budget. The actual year-to-date results may differ as certain estimates were necessary to account for outstanding invoices and the 2021 budget has not yet been approved by Council.

Signed By

Report Prepared By

Brittany Hallam
Operations Engineer
Digitally Signed Feb 16, 21

Division Review

Brittany Hallam
Operations Engineer
Digitally Signed Feb 16, 21

Financial Implications

Steve Facey
Manager of Financial Planning & Budgeting
Digitally Signed Feb 16, 21

Recommended by the Department

Tony Cecutti
General Manager of Growth and Infrastructure
Digitally Signed Feb 16, 21

Recommended by the C.A.O.

Ed Archer
Chief Administrative Officer
Digitally Signed Feb 16, 21

Winter Control Update – January 2021

Background

The City of Greater Sudbury's winter maintenance service levels are defined in Council approved winter control service policies as well as guidelines within the Minimum Maintenance Standards (MMS), O.Reg. 239-02.

During the month of January, there were no winter events that required the full deployment of City crews and Contractors.

The total snow accumulation for January 2021 was significantly lower compared to the ten-year average (2011-2020) for the same period of time, resulting in less expenditures than budgeted for this period. The overall expenditures for the 2021 fiscal year are lower than budgeted and are projecting an estimated surplus of \$1.5 million.

Weather Statistics

As shown on table 1, in January there were no major snow events or freezing rain events that required full deployment of all available City and Contractor snow plowing equipment.

Furthermore, table 1 highlights the statistical information for the 2021 winter season from Environment Canada including the 10-year average (2011-2020) for snowfall. The total snow accumulation for the 2021 calendar year to date is 0.22 meters or 0.71 feet. The 10-year average for the same period is 0.8 meters or 2.62 feet. This represents a 73% decrease.

Table 1 – Weather Statistics (January 2021)

Month	Snow Accumulation (cm)	10 Year Average (cm) (2011-2020)	Percentage Increase/(Decrease) Compared to 10 Year Average (%)	Snow Events	Rain/Freezing Rain Event
Jan	21.6	79.9	-73.0%	0	0
Feb					
Mar					
Apr					
May					
Jun-Sep					
Oct					
Nov					
Dec					
Totals	21.6	79.9	-73%	0	0

Note: All weather data taken from Environment Canada website for weather station Sudbury A.

Winter Control Service Categories

1) Roadway Snow Plowing/Sanding/Salting

Includes work activities such as plowing, sanding, salting, anti-icing roads and winter stockpile management.

Status Update

For the January 2021 reporting period there were no major snow events, requiring full deployment of City staff and/or Contractors. This resulted in a 48% decrease in snow plowing/sanding/salting activities from the anticipated levels for January.

Challenges

No significant challenges in this reporting period.

2) Snow Removal

Includes work activities such as bus stop clearing, snow removal with loaders, snow dump operation and snow bank removal in the downtown centres.

Status Update

Snow removal requirements were minimal through the month of January 2021.

Challenges

No significant challenges in this reporting period.

3) Winter Sidewalk Maintenance

Includes work activities such as sidewalk plowing and sanding.

Status Update

For the January 2021 reporting period there were no major snow events, requiring full deployment of City staff and/or Contractors. This resulted in winter sidewalk maintenance activities lower than the anticipated levels for January.

Challenges

No significant challenges in this reporting period.

4) Roadway Snow Plowing with Graders/Loaders/4x4s

Includes work activities such as snow plowing with graders, 4x4s and loaders, municipal parking lot maintenance and snow fence maintenance.

Status Update

For the January 2021 reporting period there were no major snow events, requiring full deployment of City staff and/or Contractors. This resulted in a 70% decrease in snow plowing activities from the anticipated levels for January.

Challenges

No significant challenges in this reporting period.

5) Winter Ditching/Spring Clean Up

Includes work activities such as winter ditch maintenance and spring clean up with sweepers/flushers on roads and sidewalks.

Status Update

For the January 2021 reporting period there were no major snow events. This resulted in a 95% decrease in winter ditching activities from the anticipated levels for January.

Challenges

No significant challenges in this reporting period.

6) Miscellaneous Winter Maintenance

Includes work activities such as property restoration (plow damage), pothole patching, winter road patrol, employee standby, equipment standby, health and safety training (snow school), fringe benefits and tool repairs.

Status Update

Pothole patching and Contractor standby are the main activities that have been utilized under this category during this reporting period. These activities were in alignment with the anticipated levels for January.

Challenges

No significant challenges in this reporting period.

Financials

The estimated financial results for the period ending January 31, 2021 are summarized below. As depicted in table 2, January 2021 is estimating a surplus of approximately \$1.5 million when compared to the draft 2021 year-to-date budget. The actual year-to-date results may differ as certain estimates were necessary to account for outstanding invoices and the 2021 budget has not yet been approved by Council.

Table 2 – Financial Results

2021 Winter Summary As at January 31, 2021					
	Draft Annual	2021 YTD			
	Budget	Draft Budget	Actual	Variance	% Spent YTD
Snow Plowing/Sanding/Salting	7,919,410	2,116,725	1,099,489	1,017,236	52%
Snow Removal	1,081,503	279,610	182,497	97,113	65%
Winter Sidewalk Maintenance	1,219,250	304,813	231,463	73,350	76%
Snow Plowing - Graders/Loaders/4x4s	1,156,817	320,342	95,811	224,531	30%
Winter Ditching/Spring Clean Up	2,816,050	119,500	6,159	113,341	5%
Miscellaneous Winter Maintenance	7,814,865	1,127,264	1,141,632	(14,368)	101%
Totals	22,145,462	4,268,254	2,757,050	1,511,204	65%

Table 3 – Miscellaneous Winter Maintenance Budget Breakdown

2021 Miscellaneous Winter Maintenance	
Expense Type	Draft Annual Budget (millions)
Employee Benefits	1.63
Asphalt Patching	1.52
Internal Recoveries (HR, Finance, IT)	0.78
Standby (Contractor Services)	0.79
Health & Safety	0.17
Other (Roads Patrol, Emergency Response, Tool Repair, Property Restoration, etc.)	0.57
Administration & Supervision	2.35
Total	\$ 7.81

Table 4 portrays a summary of the winter maintenance activities for the 2020/2021 winter season which shows an estimated under expenditure of approximately \$2.4 million. It is important to note that all activity costs before January 2021 have been included in the 2020 fiscal year and have been accounted for in the 2020 year end position.

In summary, favourable weather conditions in the 2020/2021 winter season would suggest that costs attributable to winter maintenance for the 2021 fiscal year are tracking well below budget allocations.

Table 4 – 2020/2021 Winter Season Financial Summary

2020/2021 Winter Season Summary January, 2021			
	Actual/Draft Season Budget	Season Actual	Variance
Snow Plowing/Sanding/Salting	4,782,191	3,330,493	1,451,698
Snow Removal	459,335	236,244	223,091
Winter Sidewalk Maintenance	698,361	549,346	149,015
Snow Plowing - Graders/Loaders/4x4s	582,468	347,038	235,430
Winter Ditching/Spring Clean Up	153,510	99,310	54,200
Miscellaneous Winter Maintenance	3,360,750	3,069,736	291,014
Totals	10,036,615	7,632,167	2,404,448

Presented To:	Operations Committee
Presented:	Monday, Mar 01, 2021
Report Date	Monday, Jan 25, 2021
Type:	Presentations

For Information Only

Winter Control Operations Update - December 2020

Resolution

For Information Only

Relationship to the Strategic Plan / Health Impact Assessment

This report refers to operational matters.

Report Summary

This report is intended to provide a summary of winter maintenance activities for the month of December 2020, including financial variances. It is important to note that due to normal lags in receipt of costs related to these activities, final costs for this period may vary from the information reported at this time.

Financial Implications

This report provides the estimated financial results of the 2020 winter roads operations for the City's fiscal year between January and December 2020. The estimated result for 2020 is a surplus of approximately \$466,000. The actual year end result may differ as estimates were necessary to account for outstanding invoices. The actual surplus/deficit will be communicated as part of the 2020 Operating Budget Variance Report that will be presented in Q2 2021. As per the Reserve and Reserve Fund policy, any annual over/under expenditures in winter roads operations may be funded/contributed towards the Roads Winter Control Reserve Fund.

Signed By

Report Prepared By

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Division Review

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Operations Engineer
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Financial Implications

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Recommended by the C.A.O.

Ed Archer
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Winter Control Update - December 2020

Background

The City of Greater Sudbury's winter maintenance service levels are defined in Council approved winter control service policies as well as guidelines within the Minimum Maintenance Standards (MMS), O.Reg. 239-02.

During the month of December, there were three (3) winter events that required the full deployment of City crews and Contractors. The first major snow event brought a significant amount of snow. Milder temperatures proceeded the event causing melting periods. As well, there was a rain event at the end of the month, both of which caused a slight increase in maintenance activities for winter ditching/drain opening.

The total snow accumulation for December was less than average, resulting in a \$893,000 under expenditure. The overall expenditures for the fiscal year 2020 are now lower than projected, estimated at approximately \$466,000 under budget.

Weather Statistics

As shown on table 1, from January to the end of December there have been nine (9) major snow events and one (1) freezing rain event that have required full deployment of all available City and Contractor snow plowing equipment. Furthermore, table 1 highlights the statistical information for the 2020 winter season from Environment Canada including the 10-year average (2011-2020) for snowfall. The total snow accumulation for the 2020 calendar year to date is 2.85 meters or 9.35 feet. The 10-year average for the same period is 3.2 meters or 10.5 feet. This represents an 11% decrease.

Table 1 – Weather Statistics (January through December 2020)

Month	Snow Accumulation (cm)	10 Year Average (cm) (2011-2020)	Percentage Increase/(Decrease) Compared to 10 Year Average (%)	Major Snow Events	Freezing Rain Event
Jan	70.8	79.9	-11.4%	2	1
Feb	78.2	61.3	27.5%	2	0
Mar	30.8	39.1	-21.1%	1	0
Apr	7.9	27.3	-71.1%	0	0
May	16.4	2.8	477.5%	1	0
Jun-Sep	-	-	0.0%	-	-
Oct	8.0	6.4	25.8%	-	-
Nov	15.6	39.0	-60.0%	0	0
Dec	57.2	63.8	-10.4%	3	0
Totals	284.9	319.6	-10.9%	9	1

Note: All weather data taken from Environment Canada website for weather station Sudbury A.

Winter Control Service Categories

1) Roadway Snow Plowing/Sanding/Salting

Includes work activities such as plowing, sanding, salting, anti-icing roads and winter stockpile management.

Status Update

For the December 2020 reporting period there were three (3) major snow events, requiring full deployment of City staff and/or Contractors . This resulted in snow plowing/sanding/salting activities in alignment with the anticipated levels for December.

Challenges

A major snow event on Christmas Day posed some challenges in obtaining the appropriate level of staffing to meet service level standards.

2) Snow Removal

Includes work activities such as bus stop clearing, snow removal with loaders, snow dump operation and snow bank removal in the downtown centres.

Status Update

Snow removal requirements were minimal through the month of December.

In 2019 Council approved an increase in the snow removal budget for the downtown core. Starting in the 2019/2020 winter season, contract services were utilized to remove portions, or “cut-outs” of the snowbanks around high traffic parking stations in the downtown core as well as full snowbank removal along the on-street parking on the south side of Elm St. This was done in consultation with the Downtown BIA to enhance snowbank removal services. This activity was completed throughout the season on an “as needed” basis, approximately one occurrence per month, coordinated with the downtown full snow removal efforts. The snow removal “cut-outs” were successful and will continue through the 2020/2021 winter season. This activity was completed in December.

Challenges

No significant challenges in this reporting period.

3) Winter Sidewalk Maintenance

Includes work activities such as sidewalk plowing and sanding.

Status Update

For the December 2020 reporting period there were three (3) major snow events, requiring full deployment of City staff and/or Contractors. This resulted in winter sidewalk maintenance activities in alignment with the anticipated levels for December.

Challenges

No significant challenges in this reporting period.

4) Roadway Snow Plowing with Graders/Loaders/4x4s

Includes work activities such as snow plowing with graders, 4x4s and loaders, municipal parking lot maintenance and snow fence maintenance.

Status Update

For the December 2020 reporting period there were three (3) major snow events, requiring full deployment of City staff and/or Contractors. This resulted in snow plowing activities in alignment with the anticipated levels for December.

Challenges

No significant challenges in this reporting period.

5) Winter Ditching/Spring Clean Up

Includes work activities such as winter ditch maintenance and spring clean up with sweepers/flushers on roads and sidewalks.

Status Update

For the December 2020 reporting period there were three (3) major snow events. Throughout the month, there were temperature fluctuations above and below freezing, causing melting periods after the first major snow event as well as a rain event at the end of the month. This resulted in a slight increase in winter ditching activities for this period.

Challenges

A rain event is unusual for the month of December. This required increased focus on opening up ditches/drainage to reduce ponding on roadways.

6) Miscellaneous Winter Maintenance

Includes work activities such as property restoration (plow damage), pothole patching, winter road patrol, employee standby, equipment standby, health and safety training (snow school), fringe benefits and tool repairs.

Status Update

Pothole patching and Contractor standby are the main activities that have been utilized under this category during this reporting period.

Challenges

No significant challenges in this reporting period.

Financials

This report provides the estimated financial results of the 2020 winter roads operations for the City's fiscal year between January and December 2020. As depicted in Table 2 below, the estimated result for 2020 is a surplus of approximately \$466,000. The actual year end result may differ from these estimates as certain estimates were necessary to account for outstanding invoices. The actual surplus/deficit will be communicated as part of the 2020 Operating Budget Variance Report that will be presented in Q2 2021. As per the Reserve and Reserve Fund policy, any annual over/under expenditures in winter roads operations may be funded/contributed towards the Roads Winter Control Reserve Fund.

Table 2 – Financial Results

2020 Winter Summary As at December 31, 2020					
	Annual Budget	2020 YTD			
		Budget	Actual	Variance	% Change YTD
Snow Plowing/Sanding/Salting	7,823,358	7,823,358	6,511,782	1,311,576	83%
Snow Removal	871,321	871,321	1,235,036	(363,714)	142%
Winter Sidewalk Maintenance	1,124,424	1,124,424	1,015,440	108,984	90%
Snow Plowing - Graders/Loaders/4x4s	933,969	933,969	1,182,990	(249,021)	127%
Winter Ditching/Spring Clean Up	2,279,958	2,279,958	2,832,937	(552,979)	124%
Miscellaneous Winter Maintenance	7,350,517	7,350,517	7,138,630	211,887	97%
Totals	20,383,548	20,383,548	19,916,815	466,732	98%

Table 3 – Miscellaneous Winter Maintenance Budget Breakdown

2020 Miscellaneous Winter Maintenance	
Expense Type	Annual Budget (millions \$)
Employee Benefits	1.57
Asphalt Patching	1.36
Internal Recoveries (HR, Finance, IT)	0.73
Standby (Contractor Services)	0.73
Health & Safety	0.17
Other (Road Patrol, Emergency Response, Tool Repair, Property Restoration, etc.)	0.58
Administration & Supervision	2.21
Total	\$ 7.35

Table 4 – 2020/2021 Winter Season Financial Summary

2020/2021 Winter Season Summary December, 2020			
	Season Budget	Season Actual	Variance
Snow Plowing/Sanding/Salting	2,665,466	2,231,004	434,462
Snow Removal	179,725	53,747	125,978
Winter Sidewalk Maintenance	393,548	317,883	75,665
Snow Plowing - Graders/Loaders/4x4s	262,126	251,227	10,899
Winter Ditching/Spring Clean Up	34,010	93,151	(59,141)
Miscellaneous Winter Maintenance	2,233,486	1,928,104	305,382
Totals	5,768,361	4,875,116	893,245

Presented To:	Operations Committee
Presented:	Monday, Mar 01, 2021
Report Date	Tuesday, Feb 16, 2021
Type:	Managers' Reports

Request for Decision

Update to By-law 2020-20; Bridge Load Restriction By-law

Resolution

THAT the City of Greater Sudbury directs staff to amend By-law 2020-20 to implement the recommended changes as outlined in the report entitled "Update to By-law 2020-20; Bridge Load Restriction By-law", from the General Manager of Growth and Infrastructure, presented at the Operations Committee meeting on March 1, 2021.

Relationship to the Strategic Plan / Health Impact Assessment

The update to the bridge load restriction bylaw advances City Council's strategic goal related to Asset Management and Service Excellence as outlined in City Council's adopted 2019-2027 Strategic Plan.

Report Summary

As a result of capital investment into bridge replacements, load restrictions on High Falls Road Bridge on High Falls Road in Worthington, Vermillion River Bridge on Moose Mountain Mine Road in Capreol, Roberts River Bridge on Ironside Lake Road in Capreol, Spanish River Road Bridge on Spanish River Road in Worthington and Coniston Creek Bridge on Government Road in Coniston are no longer required. This report will recommend appropriate revisions to the Bridge Load Restriction bylaw 2020-20.

Financial Implications

Recommendations of this report may be carried out within existing approved budget and staff complement.

Signed By

Report Prepared By

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Manager Review

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Roads Engineer
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Division Review

David Shelsted
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Financial Implications

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Recommended by the Department

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Recommended by the C.A.O.

Ed Archer
Chief Administrative Officer
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Update to Bridge Load Restriction By-law 2020-20

Purpose

This report seeks Council approval to update the Bridge Load Restriction Bylaw to reflect the current state of the City's bridges. In 2016, several individual bylaws setting loading restrictions that were consolidated into one bylaw, 2017-45, which has since been updated in bylaw 2020-20. The above noted bridges now meet the capacity criteria set out in the Canadian Highway Bridge Design Code, thus necessitating an update to the to the current load restriction bylaw 2020-20.

Overview/Executive Summary

As a result of capital investment into bridge replacements, load restrictions on High Falls Road Bridge on High Falls Road in Worthington, Vermillion River Bridge on Moose Mountain Mine Road in Capreol, Roberts River Bridge on Ironside Lake Road in Capreol, Spanish River Road Bridge on Spanish River Road in Worthington and Coniston Creek Bridge on Government Road in Coniston are no longer required. This report will recommend appropriate revisions to the Bridge Load Restriction bylaw 2020-20.

Background

The City retains a structural engineer to perform biennial inspections of all City bridges and large culverts as required by Ontario Regulation 104/97 Standards for Bridges. Through these inspections a structural analysis of High Falls Road Bridge on High Falls Road in Worthington, Vermillion River Bridge on Moose Mountain Mine Road in Capreol, Roberts River Bridge on Ironside Lake Road in Capreol, Spanish River Road Bridge on Spanish River Road in Worthington Coniston Creek Bridge on Government Road in Coniston, Kalmo Road Bridge on Kalmo Road and Walter Street Bridge in Coniston were recommended for load posting.

Subsequent to the bridge load restriction posting for the above noted locations, 5 of these bridges have been replaced through capital infrastructure projects. These load restrictions are no longer necessary for these bridges. The load restriction signs have been removed at the following 5 locations.



Image 1 – High Falls Road Bridge Location



Image 2 – Vermilion River Bridge Location



Image 3 – Roberts River Bridge Location



Image 4 – Spanish River Road Bridge Location

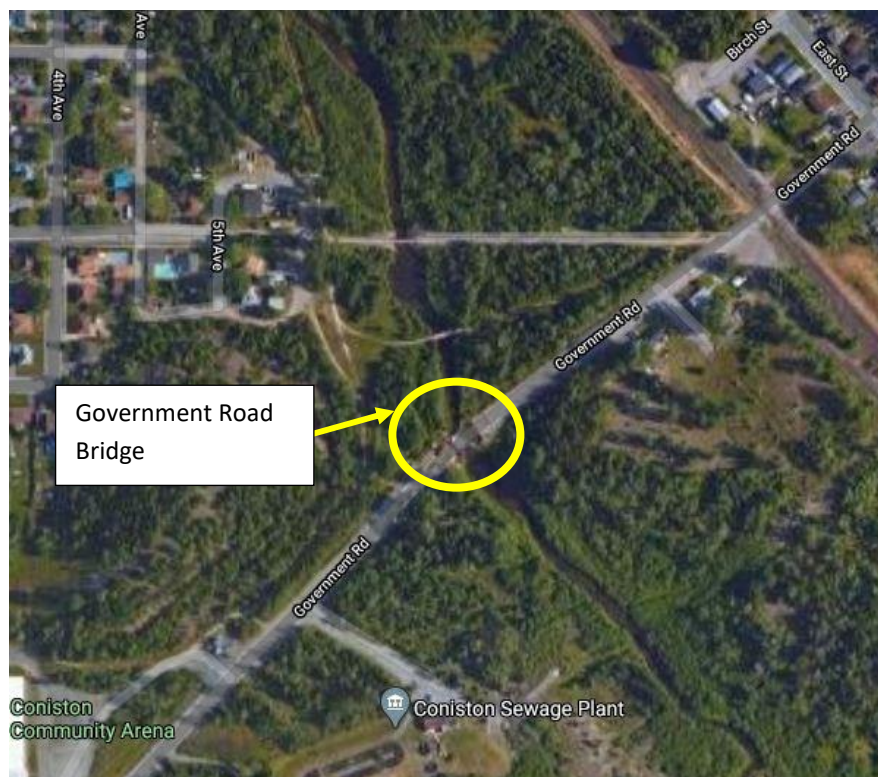


Image 5 – Government Road Bridge Location

Analysis

The City is mandated to have all bridges and large culverts inspected by a Structural Engineer at least once every two years under Ontario Regulation 104/97. The inspection results highlight bridges structural condition and provide recommendations on upgrades and rehabilitation work that need to be carried out by the City. These recommendations form the basis for the City's capital investment in bridges. In addition, part of these recommendations include having a structural analysis/evaluation performed on deteriorated structures to determine if a particular bridge has the capacity outlined in the latest version of the Canadian Highway Bridge Design Code (CHBDC). If the result of the evaluation is that full capacity is not present in the bridge, and then a load restriction is determined, based on the CHBDC.

There are currently 185 bridges and large culverts located in the City that are subject to biennial inspections. With the recommended revisions to the Bridge Load Restriction By-law, the number of load restricted bridges and large culverts in the City will be reduced from 7 to 2.

Next Steps

To ensure that the bridge load restrictions are enforceable and accurately reflect the existing condition of the bridge inventory, it is staff's recommendation to update Bylaw 2020-20 with the appended revised Schedules A and B as follows:

- High Falls Road Bridge (1004) on High Falls Road in Worthington be removed from By-law 2020-20;
- Vermillion River Bridge (4001) on Moose Mountain Mine Road in Capreol be removed from By-law 2020-20;
- Roberts River Bridge (4005) on Ironside Lake Road in Capreol be removed from By-law 2020-20;
- Spanish River Road Bridge (1000) on Spanish River Road in Worthington be removed from By-law 2020-20;
- Coniston Creek Bridge (5016) on Government Road in Coniston be removed from By-law 2020-20;
- Kalmo Road Bridge (3006) on Kalmo Road be load restricted as indicated on attached revised Schedule A;
- Walter Street Bridge (5013) on Walter Street be load restricted as indicated on attached revised Schedule B.

Resources Cited

City of Greater Sudbury, Operations Committee – Item R-3, January 18, 2016

Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=agenda&action=navigator&id=997&itemid=min>

City of Greater Sudbury, Operations Committee – Item R-1, December 2, 2019

Accessed online:

<https://agendasonline.greatersudbury.ca/index.cfm?pg=agenda&action=navigator&lang=en&id=1348>

Schedule A to By-law 2021-xx

Load Restrictions – any Number or Combination of Vehicles

Column A Bridge - Description	Column B Maximum gross weight of the vehicle or combination of vehicles permitted on the Bridge in Tonnes
Kalmo Road Bridge / Whitson River Bridge -Kalmo Road -0.90 km north of Main Street -CGS Structure Number 3006	13 tonnes

Schedule B to By-law 2021-xx

Load Restrictions by Number or Combination of Vehicles

Column A Bridge - Description	Column B Maximum gross weight of the vehicle or combination of vehicles permitted on the Bridge in Tonnes		
	Column B-1 Single Vehicle Unit	Column B-2 Two Vehicle Unit (such as a Tractor and Trailer)	Column B-3 Three Vehicle Unit (such as a Tractor and Two Trailers)
Romford Creek Bridge -Walter Street, Coniston -0.1 km south of CPR tracks -CGS Structure 5013	9 tonnes	17 tonnes	23 tonnes