

# **Request for Decision**

# **Maximum Speed Limit - Panache Lake Road**

Presented To:	Operations Committee	
Presented:	Monday, Jan 13, 2020	
Report Date	Friday, Dec 20, 2019	
Type:	Managers' Reports	

### Resolution

THAT the City of Greater Sudbury reduces the speed limit on Panache Lake Road from Municipal Road 55 to 210 metres north of Suihkola Road to 70 km/h from 80 km/h;

AND THAT the City of Greater Sudbury directs staff to prepare a by-law to amend Traffic and Parking By-Law 2010-1 in the City of Greater Sudbury to implement the recommended changes, as outlined in the report entitled "Maximum Speed Limit – Panache Lake Road", from the General Manager of Growth and Infrastructure, presented at the Operations Committee meeting on January 13, 2020.

# Relationship to the Strategic Plan / Health Impact Assessment

This report refers to operational matters.

# **Report Summary**

The Transportation and Innovation Services section received a request from area residents to review the posted speed limit on Panache Lake Road. This report will outline the criteria used by staff to evaluate the maximum posted speed limit based on the physical characteristics of the road.

## Signed By

#### **Report Prepared By**

Soutsay Boualavong Traffic/Trans Eng Analyst Digitally Signed Dec 20, 19

#### **Manager Review**

Joe Rocca Traffic and Asset Management Supervisor Digitally Signed Dec 20, 19

#### **Division Review**

Akli Ben-Anteur Project Engineer Digitally Signed Dec 20, 19

#### **Financial Implications**

Apryl Lukezic Co-ordinator of Budgets Digitally Signed Dec 23, 19

#### **Recommended by the Department**

Tony Cecutti General Manager of Growth and Infrastructure Digitally Signed Dec 23, 19

#### Recommended by the C.A.O.

Ed Archer Chief Administrative Officer Digitally Signed Dec 23, 19

# **Financial Implications**

Recommendations of this report may be carried out within existing approved operating budget.

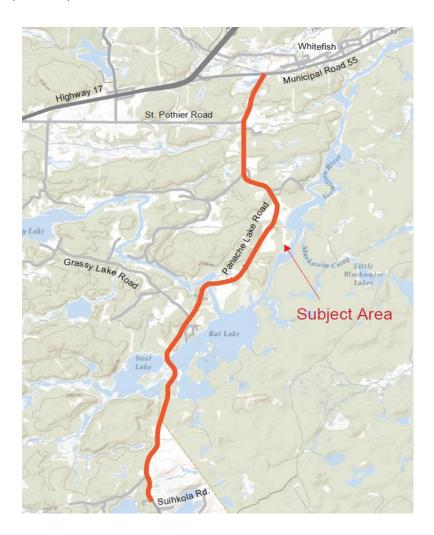
## Maximum Speed Limit - Panache Lake Road

The Transportation and Innovation Services section received a request from area residents to review the existing 80 km/h posted speed limit on Panache Lake Road between Municipal Road 55 (MR 55) and 210 metres north of Suihkola Road.

In 2010, City Council adopted the Canadian Guidelines for Establishing Posted Limits published by the Transportation Association of Canada (TAC) for establishing posted speed limits on arterial and major collector roads. This was adopted to provide an objective and consistent process for establishing speed limits within the City.

Panache Lake Road is collector road, located in Whitefish, which provides a connection for the rural properties in the area to and from Municipal Road 55. It is constructed to a rural standard with asphalt surface width that varies from 6.5 to 7.0 metres and gravel shoulders.

The Average Annual Daily Traffic volume (AADT) along this section is approximately 920 vehicles and the posted speed limit on this section of Panache Lake Road is 80 km/h. South of this section, the posted speed limit is 60 km/h.



To determine the recommended speed limit from the Canadian Guidelines for Establishing Posted Speed Limits, staff divided Panache Lake Road into two segments based on the residential density and existing speed limits. The risk score and recommended posted speed limit for each segment can be found in the table below. The complete evaluations based on the Canadian guidelines can be found in Appendix A and B.

Table 1 – Summary of Recommended Posted Speed Limits

<u>Location</u>	<u>Current</u>	Total Risk Score	Recommended Posted
	Posted Speed		<u>Speed</u>
MR 55 to Grassy Lake Road	80 km/h	31	70 km/h
Grassy Lake Road to 210 m north of Suihkola Road	80 km/h	32	70 km/h

Applying the physical characteristics of each segment to the Canadian Guidelines and using a functional classification of a "two lane rural undivided major collector", yields a total risk score of 31 and 32 for the two segments and results in a recommended speed limited of 70 km/h.

Staff also reviewed collision data for the two segments from 2015 to 2019 year to date and found that there were total of ten reported collisions during this period. Eight of the ten collisions were classified as single motor vehicle collisions. The operating speed of the vehicle is typically a contributing factor for this type of collision.

Considering the function of the roadway and the collision history, staff recommends the maximum posted speed limit be reduced to 70 km/h.

Additionally, there are several horizontal curves along Panache Lake Road that have a measured "comfortable" speed of less than 70 km/h. City staff will be making improvements to the existing curve warning and advisory speed signs to further enhance safety.

#### **Resources Cited:**

City of Greater Sudbury, *Maximum Road Speed Limits*, September 2010, Accessed Online: <a href="http://agendasonline.greatersudbury.ca/index.cfm?pg=agenda&action=navigator&id=310&itemid=3480&lang=en">http://agendasonline.greatersudbury.ca/index.cfm?pg=agenda&action=navigator&id=310&itemid=3480&lang=en</a>



# Automated Speed Limit Guidelines FORM A - Automated Speed Limit Guidelines Spreadsheet

Version: 10-Apr-09

Name of Corridor:	Panache Lake Road				
Segment Evaluated:	MR55	to Grassy Lake Road	d		
Geographic Region:	Whitefish				
Road Agency:	City of Greater Sudbury				
Road Classification:	Collector	Length of Corridor:		m	
Urban / Rural:	Rural	Design Speed: (Required for Freeway, Expressway, Highway)		km/h	
Divided / Undivided:	Undivided	Current Posted Speed: (For information only)	80	km/h	
Major / Minor:	Major	Prevailing Speed: (85th Percentile - for information only)		km/h	
# Through Lanes Per Direction:	1 lane	Policy: (Maximum Posted Speed)	No policy		

		RISK	Score	
<b>A</b> 1	GEOMETRY (Horizontal)	Lower	2	
A2	GEOMETRY (Vertical)	Medium	4	
АЗ	AVERAGE LANE WIDTH	Higher	3	
В	ROADSIDE HAZARDS	Medium	6	
C1	PEDESTRIAN EXPOSURE	Medium	2	
C2	CYCLIST EXPOSURE	Higher	3	
D	PAVEMENT SURFACE	Lower	3	
	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences		
	STOP controlled intersection	7		
	Signalized intersection	0		
E1	Roundabout or traffic circle	0	4	
	Crosswalk	0		
	Active, at-grade railroad crossing	0		
	Sidestreet STOP-controlled or lane	1		
	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences		
E2	Left turn movements permitted	39	3	
	Right-in / Right-out only	0		
<b>E</b> 3	NUMBER OF INTERCHANGES	Number of Occurrences	0	
	Number of interchanges along corridor	0		
F	ON-STREET PARKING	Lower	1	

Total Risk Score:	
31	
Recommended Posted Speed Limit (km/h):	
determined by road characteristi	c

70 As determined by policy

No policy

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

# Comments:



# Automated Speed Limit Guidelines FORM A - Automated Speed Limit Guidelines Spreadsheet

Version: 10-Apr-09

Name of Corridor:	Panache Lake Road					
Segment Evaluated:	Grassy Lake Road		to	210 north of Suihkola	north of Suihkola Road	
Geographic Region:	Whitefish					
Road Agency:	City of Greater Sudbury					
Road Classification:	Collector	Length of Corridor:		or:	4,499	m
Urban / Rural:	Rural	Design Speed: (Required for Freeway, Expressway, Highway)				km/h
Divided / Undivided:	Undivided	Current Posted Speed: (For information only) Prevailing Speed: (85th Percentile - for information only) Policy: (Maximum Posted Speed)			80	km/h
Major / Minor:	Major			nformation only)		km/h
# Through Lanes Per Direction:	1 lane			•	No policy	

		RISK	Score	
A1	GEOMETRY (Horizontal)	Lower	2	
A2	GEOMETRY (Vertical)	Medium	4	
АЗ	AVERAGE LANE WIDTH	Higher	3	
В	ROADSIDE HAZARDS	Medium	6	
C1	PEDESTRIAN EXPOSURE	Medium	2	
C2	CYCLIST EXPOSURE	Higher	3	
D	PAVEMENT SURFACE	Lower	3	
	NUMBER OF INTERSECTIONS WITH PUBLIC ROADS	Number of Occurrences	4	
	STOP controlled intersection	4		
	Signalized intersection	0		
E1	Roundabout or traffic circle	0		
	Crosswalk	0		
	Active, at-grade railroad crossing	0		
	Sidestreet STOP-controlled or lane	2		
	NUMBER OF INTERSECTIONS WITH PRIVATE ACCESS DRIVEWAYS	Number of Occurrences		
E2	Left turn movements permitted	32	4	
	Right-in / Right-out only	0		
E3	NUMBER OF INTERCHANGES	Number of Occurrences	0	
	Number of interchanges along corridor	0		
F	ON-STREET PARKING	Lower	1	

Total Risk Scor	e:
32	

## **Recommended Posted** Speed Limit (km/h):

As determined by road characteristics

70

As determined by policy

No policy

The recommended posted speed limit may be checked against the prevailing speeds of the roadway and the road's safety performance.

#### Comments: