



## STAFF REPORT ACTION REQUIRED

### Yelland Street – Speed Limit

<b>Date:</b>	December 7, 2009
<b>To:</b>	Etobicoke York Community Council
<b>From:</b>	Director, Transportation Services - Etobicoke York District
<b>Wards:</b>	Ward 11 - York South-Weston
<b>Reference Number:</b>	p:\2010\Cluster B\TRA\EtobicokeYork\eycc100008-to

### SUMMARY

This staff report is about a matter that Community Council has delegated authority from City Council to make a final decision.

The purpose of this report is to present the results of a speed study on Yelland Street, between Oak Street and Queenslea Avenue.

We do not recommend introducing a 40 km/h speed limit on Yelland Street, between Oak Street and Queenslea Avenue, since the 40 km/h Speed Limit Warrant is not met.

### RECOMMENDATIONS

**Transportation Services recommends to Etobicoke York Community Council that:**

1. The speed limit on Yelland Street, between Oak Street and Queenslea Avenue, remain at 50 km/h.

### Financial Impact

The adoption of the above noted recommendation will not result in any financial impact.

If, however, Council decides to approve a 40 km/h posted speed limit on Yelland Street between Oak Street and Queenslea Avenue, the following financial impact will result:

Type of Funding	Source of Funds	Amount
Available within current budget	Transportation Services Operating Budget	\$800.00

## ISSUE BACKGROUND

Transportation Services staff received a request from the Ward Councillor, on behalf of area residents, with respect to reducing the Yelland Street speed limit. To quantify concerns, speed studies were conducted by Transportation Services staff on Yelland Street.

A map of the area is Attachment 1.

## COMMENTS

Yelland Street is an 8.5 metre wide, two-way local residential road that is built to urban standards with concrete curb and gutter. Sidewalks are situated on the entire east side and only a portion of the west side of the municipal road allowance. The existing speed limit is 50 km/h.

Yelland Street intersects Queenslea Avenue at its south terminus forming a two-legged uncontrolled intersection. There are no conflicting turning movements for motorists travelling through this intersection, and motorists approaching this intersection are not required to stop. The posted speed limit of Queenslea Avenue is 40 km/h.

Speed studies conducted on Yelland Street, north of Queenslea Avenue are summarized in the following table:

Location: Yelland Street, north of Queenslea Avenue						
Count Date: May 21, 2009						
Time Period	Northbound			Southbound		
Time Period	Traffic Volume (Veh/Hour)	85 <sup>th</sup> %-tile Speed (km/h)	10 km/h Pace (km/h)	Traffic Volume (Veh/Hour)	85 <sup>th</sup> %-tile Speed (km/h)	10 km/h Pace (km/h)
a.m. Pk Hr	123	41		69	46	
p.m. Pk Hr	138	43		137	47	
Total 24 Hr	1408	49	36-45	1288	53	41-50

The 85<sup>th</sup> percentile speed and 10 km/h pace speed are statistical measures of free-flow vehicle operating speeds. The 85<sup>th</sup> percentile speed is the vehicle operating speed at or below which 85 per cent of all traffic is moving. Studies show that crash rates are lowest at or around the 85<sup>th</sup> percentile speed. The 10 km/h pace speed represents the speed range containing the highest number of speed observations.

Our study found no evidence of excessive vehicle operating speeds. Application of our study data to the City's 40 km/h warrant failed to satisfy the criteria necessary to warrant reducing the speed to 40 km/h. While a review of police collision records, from January 1999 to the present, found two possibly speed-related collisions at the Queenslea Avenue/Yelland Street intersection, environmental conditions, inclement weather in particular, and in one case, alcohol impairment, appear to have been the major contributing factors in these crashes. Both crashes are extremely unlikely to have been prevented by reducing the posted speed limit.

In view of the foregoing, we cannot recommend a 40 km/h speed limit at this location.

## **CONTACT**

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## **SIGNATURE**

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Allan Smithies

Acting Director, Transportation Services-Etobicoke York District

## **ATTACHMENTS**

Appendix A: Table 1

Attachment 1: Map

## APPENDIX A

### 40 Km/h Speed Limit Warrant – Yelland Street

<b>A. ROAD WIDTH</b>		
1.	(i)	Pavement width equal to or greater than 10.5 metres and the 85 <sup>th</sup> percentile speed is equal to or less than 50 km/h
<b>OR</b>		
	(ii)	Pavement width less than 10.5 metres
<i>PAVEMENT WIDTH:                      8.5 metres</i> <i>85<sup>TH</sup> PERCENTILE SPEED: 53 km/h</i>		
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

AND

<b>B. PEDESTRIAN ENVIRONMENT</b>		
1.	(i)	Elementary or junior high school abuts the road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>OR</b>		
	(ii)	Parkland abuts the road which is contiguous to and used to gain access to an elementary or junior high school Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>OR</b>		
	(iii)	Absence of sidewalk on both sides of the road or a major portion of the road Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

OR

<b>C. ROAD AND TRAFFIC ENVIRONMENT</b>		
1.	(i)	Two or more locations where grades are greater than 5%; and/or safe speed on curves is less than 50 km/h Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>OR</b>		
	(ii)	2 or more locations where there is lack of sufficient distance to stop safely traveling at 50 km/h Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<b>OR</b>		
	(iii)	Pattern of collisions where vehicle speed was identified as a factor Local streets – 3 or more over 3 years Other streets – 5 or more over 3 years Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>