

October 21, 2003

Mr. Don Hutchinson
C/o 28 Trout Lily Avenue
Markham, Ontario
L3S 4C3

Dear Mr. Hutchinson:

We received a copy of your letter to Arup Mukherjee dated September 8th, 2003 in which you requested for all-way stop signs for the following locations in the Legacy Community:

- Rouge Bank Drive at Cottontail Avenue/Russell Jarvis Drive
- Russell Jarvis Drive at Legacy Drive/Juneberry Avenue
- Russell Jarvis Drive at Rouge Bank Drive (Northwest Intersection)
- Rouge Drive at Silverflower Avenue
- Legacy Drive at Lady Fern.
- Russell Jarvis Drive at Black walnut Drive
- Rouge Bank Drive at Lady Fern
- Legacy Drive at Honeysuckle Drive
- Cottontail Avenue at Winterburry Drive
- Lady Fern at White Cedar Drive
- Lady Fern at Black Walnut Drive
- Lady Fern Drive at Red Ash Drive

The traffic division of the Town of Markham conducted the traffic operation studies in all the intersection as indicated in the map below.



Traffic operations at the intersection noted above were studied to determine the feasibility of installing an all-way stop at the intersections. This study involves performing a TMC (Turning Movement Count) to monitor vehicle movements within the intersection and to determine if the volumes meet the warrants. Our study results shows that the minimum technical requirements for an all-way stop are not met. These warrants are used uniformly by many municipalities in Ontario and provides a consistent basis to evaluate the need for stop signs.

We undertook the Turning Movement Count (TMC) study during the morning rush hour period (7:00 - 9:00), which is typically the busiest period of the day. In order to meet the warrants, the criteria for warrant 1 & 2 must be met as shown in table below. This table shows the required criteria and the study results for the intersection mentioned above. Our study results also indicate that intersection #1 (**Rouge Bank Drive @ Russell Jarvis/Cottontail Avenue**) met the split criteria, but did not meet the volume criteria. The traffic division of the Town of Markham will continue to monitor this particular intersection to determine when both warrants criteria will be met.

**ALL-WAY STOP WARRANT ANALYSIS
LEGACY DEVELOPMENT**

1. Rouge Bank Drive @ Russell Jarvis / Cottontail Avenue

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	265	<u>NO</u>	< 65 / 35	51 / 49	<u>YES</u>

ALL-WAY STOP WARRANTED?

NO

2. Russell Jarvis Drive @ Legacy Drive / Juneberry Avenue

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	<u>Recorded Value</u>	Criteria Met?
> 350	157	<u>NO</u>	< 65 / 35	78 / 22	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

3. Winterberry Drive @ Cottontail Avenue

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	45	<u>NO</u>	< 65 / 35	87 / 13	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

4. Legacy Drive @ Honeysuckle Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	385	<u>YES</u>	< 75 / 25	97 / 3	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

5. Legacy Drive @ Lady Fern Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	131	<u>NO</u>	< 75 / 25	72 / 28	<u>YES</u>

ALL-WAY STOP WARRANTED?

NO

6. Russell Jarvis Drive @ Black Walnut Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	73	<u>NO</u>	< 75 / 25	85 / 15	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

7. Russell Jarvis Drive @ Rouge Bank Drive (west intersection)

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	87	<u>NO</u>	< 65 / 35	60 / 40	<u>YES</u>

ALL-WAY STOP WARRANTED?

NO

8. Rouge Bank Drive @ Lady Fern Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	86	<u>NO</u>	< 75 / 25	80 / 20	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

9. Lady Fern Drive @ Red Ash Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	26	<u>NO</u>	< 65 / 35	73 / 27	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

10. Lady Fern Drive @ Black Walnut Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	25	<u>NO</u>	< 65 / 35	60 / 40	<u>YES</u>

ALL-WAY STOP WARRANTED?

NO

11. Lady Fern Drive @ White Cedar Drive

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	85	<u>NO</u>	< 65 / 35	59 / 41	<u>YES</u>

ALL-WAY STOP WARRANTED?

NO

12. Rouge Bank Drive @ Silverflower Avenue

WARRANT 1 Vehicular Volume (All Approaches)			WARRANT 2 <u>Volume Split</u>		
Criteria	Recorded Value	Criteria Met?	Criteria	Recorded Value	Criteria Met?
> 350	169	<u>NO</u>	< 75 / 25	76 / 24	<u>NO</u>

ALL-WAY STOP WARRANTED?

NO

I trust this letter responds to your concerns and should you have further questions or concerns, please contact me directly at 905-477-7000, Ext. 4020.

Monday Iyamu, CET
Traffic Coordinator

Copy: Don Cousens-----Mayor
Frank Scarpitti----Deputy Mayor
Jack Heath-----Councillor (Ward 5)