

15 February 2019

**File**

190032

**To**

**Country Green Homes Inc.**

410 Industrial Drive - Unit C  
Milton, ON L9T 5A6

**From**

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Paradigm Transportation Solutions Limited

## 609 & 615 Hamilton Street North, Supplemental Analysis

In November 2016, Paradigm Transportation Solutions Limited (Paradigm) prepared a Transportation Impact Study (TIS) and Transportation Demand Management (TDM) Options Review<sup>1</sup> for the property at 609 and 615 Hamilton Street North, 3 Nisbet Boulevard and 129-137 Truedell Drive in Waterdown, Ontario.

The proposal assumed 63 townhouse units with access provided through an extension of Truedell Drive and Truedell Circle and individual driveway connections onto Nisbet Boulevard.

As the project planning process has proceeded since the TIS was prepared, the proposed land use assumptions have changed; 54 residential units is now proposed. This supplemental analysis has been prepared to determine if the conclusions reached within the November 2016 TIS are still supportable. **Figure 1 (attached)** illustrates the current site plan.

### Trip Generation

Trip generation information is used to forecast the anticipated level of traffic activity as a result of the development. To estimate the volume of traffic generated by the latest development proposal, traffic projections were based on trip generation data published in ITE's Trip Generation<sup>2</sup>.

The following land use (LUC) has been utilized:

- ▶ LUC 220 – Multifamily Housing (Low-Rise)

Trip generation for the current development program are included in **Table 1**.

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<sup>1</sup> 609-615 Centre Road and 3 Nisbet Boulevard Waterdown, Ontario Transportation Impact Study and TDM Options, Prepared by Paradigm, dated November 2016

<sup>2</sup> Trip Generation Tenth Edition, Institute of Transportation Engineers, Washington D.C., 2017

**TABLE 1: TRIP GENERATION ESTIMATES**

Land Use	Units	AM Peak			PM Peak		
		Enter	Exit	Total	Enter	Exit	Total
221 - Multifamily Housing (Low-Rise)	54	6	19	25	19	11	30
<b>Net New</b>	<b>54</b>	<b>6</b>	<b>19</b>	<b>25</b>	<b>19</b>	<b>11</b>	<b>30</b>

A comparison of the trips analyzed in the November 2016 TIS for the respective AM and PM peak hours are included in **Table 2**.

**TABLE 2: TRIP GENERATION COMPARISON**

Projections	Number of Units	AM Peak			PM Peak		
		Enter	Exit	Total	Enter	Exit	Total
November 2016 TIS	63	5	22	27	21	12	33
Current	55	6	19	25	19	11	30

The reduction in units has resulted in a small reduction of vehicle trips (two to three) during the weekday peak hours. Overall, the total trip generation estimates have not changed significantly and would not alter the recommendations reached within the November 2016 TIS.

## Conclusions

- ▶ The reduction in units has a small reduction in the number of trips during the weekday AM and PM peak hours.
- ▶ The recommendations in the November 2016 TIS are still considered to be appropriate

We trust that the foregoing information will meet your requirements. Please do not hesitate to contact us if we can be of further assistance.

Yours very truly,

**PARADIGM TRANSPORTATION SOLUTIONS LIMITED**



**Stew Elkins**  
B.Sc., MITE  
Vice-President & CRO

## ATTACHMENTS



Item	Proposed
Site Area	
Block 1	474.10 m <sup>2</sup>
Block 2	1,844.00 m <sup>2</sup>
Block 3	773.17 m <sup>2</sup>
Block 4	5,950.54 m <sup>2</sup>
R.O.W.	2,288.70 m <sup>2</sup>
<b>TOTAL</b>	<b>11,245.61 m<sup>2</sup></b>
No. of Units	
Block 1	2
Block 2	8
Block 3	7
Block 4	37
<b>TOTAL</b>	<b>54</b>
No. of Parking Spaces	
Block 1	2 per unit (4)
Block 2	2 per unit (16)
Block 3	2 per unit (14)
Block 4	2 per unit (74) + 6 visitor (10 required)



# Site Plan

Figure 1