

## **Sanitary Sewer Servicing Report**

For

Proposed C-Store, Gas Bar, and Car Wash  
145 Speedvale Avenue West, Guelph, ON  
N1K 1K5

PREPARED BY

### **GAMA Engineering Inc.**

Consulting Structural, Mechanical, Electrical and Civil Engineers  
8611 Weston Road, Suite 35B  
Vaughan, Ontario L4L 9P1



Revision: 0  
October 2022  
Gama Project No. 1808

## 1. SANITARY SEWER SERVICING

### 1.1. Existing Conditions

Currently, a 533mm diameter sanitary sewer is located within Edinburgh Road which flows in a southerly direction towards Speedvale Avenue on the west side of the subject property.

The proposed Convenience Store and attached Car Wash building will be serviced by 150mm sanitary service and will be connected to the existing SAN/MH #1 on Edinburgh Road

### 1.2. Sanitary Demands

The expected sanitary discharge for the full site was estimated by using the City of Guelph Development Engineering Manual (Version 2.0). As per the City of Guelph Development Engineering Manual, for commercial application, a design flow of 1.7 L/s/ha shall be used for calculation purposes. The City of Guelph Development Engineering Manual, Section 5.6, provides sanitary flows inclusive of peaking factors for various land uses. The area shall be based on the gross lot area.

The gas station site was considered 'Commercial and Industrial'. The resulting peak flows are as follows:

Sanitary Peak Rates – Table 1

Property	Rate	Area (ha)	Peak Rate (L/S)
Gas Station	1.7 L/S/ha	0.325	0.5525

As such, the proposed connection into Edinburgh Road will convey a peak flow of 0.5525 L/s It is understood that the City will utilize this information for a City servicing model update.

Prepared by: Javad Goudarzi, P.Eng., M.Eng.

Mechanical Engineer  
GAMA Engineering Inc.  
October 26, 2022

