

April 28, 2020

Jones Consulting Group Ltd  
229 Mapleview Drive East  
Barrie, ON  
L4N0W5

**Attn: Mr. Ray Duhamel**  
[RDuhamel@jonesconsulting.com](mailto:RDuhamel@jonesconsulting.com)

**Subject: Multi-residential Building**  
**113 Bayfield St, Barrie**

**RE: Sanitary and Water Design Flow Rates, Rev 1**

Dear Mr. Duhamel,

At the request of the developer Hubbert-EME Engineering has been retained to complete sanitary and domestic water flow rates for the new development located at 113 Bayfield St, Barrie, ON. The intended purpose of the calculation is to provide accurate building operating information, that will be used by the City of Barrie, during Site Plan Application process.

The new development consists of a new 8-storey building. It is our understanding that within the building there are amenity areas and 108 residential suites. Upon review of the proposed floor plans our office has completed fixture unit calculations that have yielded results as noted below:

Domestic Water

From the OBC and Table 5-19 ASPE 2010 Vol 2 yields: 201 GPM  
Applying a 70% diversity factor yields: **140 GPM**  
Water Line Size: **80mm (3")**  
Water Distribution Pipe Size: **65mm (2-1/2")**

Sanitary

From the OBC and 2012 International Plumbing Code Table 702.1.  
Maximum discharge: **199 GPM**  
Building Interior Sanitary Main (1% slope): **200mm (8")**  
Anticipated discharge applying 70% diversity factor: **139 GPM**

If there are any questions regarding the above, please contact our firm principals directly.

Sincerely,



Chris Langford, P.Eng  
President  
[chris@EMEeng.com](mailto:chris@EMEeng.com)



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