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PLANNING SERVICES

Project 22-1314
October 3, 2023

Bailey Chabot
City of Greater Sudbury
200 Brady Street, Tom Davies Square
Sudbury, ON P3A 5P3

RE: Wastewater Volume Calculation, Proposed Contractor's Yard, Zoning By-law Amendment Application – 0 Duhamel Road, Lively

To Bailey Chabot,

TULLOCH has been retained by the owner of PIN 73372-0230 in Lively to coordinate the submission of a Zoning By-law Amendment Application over the subject property. A SPART meeting was held on February 9, 2022, and the Memorandum of Understanding (MOU) is dated February 18, 2022. This Wastewater Volume Calculation memorandum is to satisfy Planning Servicing Notes, Item 3 as the parcel is not currently serviced by municipal water or sewer. The rezoning of the subject property proposes to service the three buildings:

1. Commercial or Public Garage / Vehicle Repair Shop,
2. Contractors Building, and
3. Heavy Equipment Sales and Rental Building.

The daily wastewater volumes were calculated based on the Ontario Building Code, Part 8, Table 8.2.1.3.B Other Occupancies. The Commercial or Public Garage / Vehicle Repair Shop and Contractors Building wastewater volume calculations were based on *Item 26. Warehouse*, of Table 8.2.1.3.B, with 1 water closet and 2 loadings bay proposed for each building. The Heavy Equipment Sales Building wastewater volume calculations were based on *Item 22. Stores* of Table 8.2.1.3.B, with 1 water closet and a total Gross Floor Area of 399.8 m². The total wastewater volume for the proposed development is **4,499 L/d**. A summary of the calculations is presented in Table 1 below.



Table 1: Wastewater Volume Calculation per OBC Part 8

Building	Gross Floor Area	OBC Part 8, Table 8.2.1.3.B Item	Wastewater Flow Criteria and Calculation	Total Daily Wastewater Flow
Commercial or Public Garage / Vehicle Repair Shop	557.36	26. Warehouse		1,250 L/d
		a) per water closet (950 L/d), and	1 water closet x 950 L/d = 950 L/d, and	
		b) per loading bay (150 L/d)	2 loading bays x 150 L/d = 300 L/d	
Contractors Building	557.36	26. Warehouse		1,250 L/d
		a) per water closet (950 L/d), and	1 water closet x 950 L/d = 950 L/d, and	
		b) per loading bay (150 L/d)	2 loading bays x 150 L/d = 300 L/d	
Heavy Equipment Sales and Rental Building	399.8	22. Stores		1,999 L/d
		a) per 1.0 m ² of floor area (5 L/d), or ^{Note 1}	399.8 m ² x 5 L/d = 1,999 L/d	
		b) per water closet (1230 L/d)	1 water closet x 1,230 L/d = 1,230 L/d	
Total Wastewater Daily Flow Rate				4,499 L/d
Notes: 1. Where multiple calculations of sanitary sewage volume is permitted, the calculation resulting in the highest flow shall be used in determining the design daily sanitary flow per Note 3. of Table 8.2.1.3.B.				

We trust the above is satisfactory; however, should you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

Kayla Schmidt, M.A.Sc., P.Eng.
 Project Manager

