

AIRPORT EMPLOYMENT GROWTH DISTRICT WASTEWATER SYSTEM CAPACITY
ALLOCATION REQUEST LETTER

Date:

File:

Planning and Economic Development Department
Growth Management Division
71 Main Street West, 6th Floor
Hamilton ON L8P 4Y5

Attn: Gavin Norman, Manager, Infrastructure Planning

Re:	Request for Wastewater Allocation for the Lands of Under Application
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Dear Mr. Norman:

The above noted application has received approval by the City on [enter date] to subdivide/develop the subject lands. Presently, the land owner is proposing to develop [all the lands/Phase x/Block #] of the approved plan.

Please accept the attached wastewater allocation request form and supporting documentation which has been completed to secure wastewater allocation capacity for development/servicing of these lands.

Please advise the undersigned if there is any additional information required by the City to process this request.

Name

Company Name



City of Hamilton
APPLICATION FOR WASTEWATER ALLOCATION

Date:

Project Address:

Project Application Number:

Project Name:

Project Description:

Owner Name:

Owner Address:

Owner Email:

Owner Telephone No.:

Type of Development:

Residential

Non-Residential

Both

New

Infill/Addition to Existing

Re-Development

3. Type of Development:

Permit

Site Plan

Subdivision

Phased?

Yes

No (If yes, how many phases?)

4. Gross Area of Plan to be Developed: Ha

5. If development facilitates completion/enhancement of community provide brief description of the community benefit:

For Non-Residential Development (respond to applicable land use only)

Commercial Building

- a. Ground Floor Area (m²):
- b. Projected Commercial Employment Population
or number of Fixtures (per Building Code):

Institutional Building

- a. Ground Floor Area (m²):
- b. Projected Commercial Employment Population
or number of Fixtures (per Building Code):

Industrial Building

- a. Ground Floor Area (m²):
- b. Projected Commercial Employment Population
or number of Fixtures (per Building Code):

Dry/Wet Weather Flows (L/s) (refer to Appendix A for a Wastewater Calculation Example)

1. Total Dry Weather Peak Daily Flow (L/s) per approved wastewater generation report in accordance with City's Standard Design Requirements:
2. Total Wet Weather Flow (L/s) per approved wastewater generation report in accordance with City's Standard Design Requirements, based on total catchment area:
3. Total Allocation Requested (Dry + Wet Weather Flows L/s):

For Residential Development

- | | | |
|--------------------------|-------------------|--|
| a. Low Density Units: | No. Units: | Projected Population (Persons): |
| b. Medium Density Units: | No. Units: | Projected Population (Persons): |
| c. High Density Units: | No. Units: | Projected Population (Persons): |

Dry/Wet Weather Flows (L/s) (refer to Appendix A for a Wastewater Calculation Example)

1. Total Dry Weather Peak Daily Flow (L/s) per approved wastewater generation report in accordance with City's Standard Design Requirements:
2. Total Wet Weather Flow (L/s) per approved wastewater generation report in accordance with City's Standard Design Requirements, based on total catchment area:
3. Total Allocation Requested (Dry + Wet Weather Flows L/s):

Ensure Wastewater Generation Report is attached for review and list previously approved supporting documentation (i.e FSR; Drawings):

Applicant

Print Name

Signature

Date

APPENDIX A

AIRPORT EMPLOYMENT GROWTH DISTRICT WASTEWATER SYSTEM CAPACITY ALLOCATION REQUEST LETTER

WASTEWATER CALCULATION EXAMPLE

Area of the property: 9.7 ha

Proposal for Industrial Warehouse – Building footprint: 44,723 m²

- Office space 5% or 2,236 m²
- 6 Water Closets
- 70 Loading bays

Per Ontario Building Code (OBC) Section 8.2.1.3 Sewage System Design Flows

OBC Table 8.2.1.3 B. Other Occupancies

Item	Establishments	Volume (litres/day)
15.	Office Building b) Per each 9.3 m ² of floor space	75 litres/day
26.	Warehouse a) Per water closet	950 litres/day
	b) Per loading bay	150 litres/day

Wastewater Calculation:

1. $2,236 \text{ m}^2 / 9.3 \text{ m}^2 \text{ of floor space} \times 75 \text{ l/day} = 18,032 \text{ l/day}$
2. $6 \text{ water closets} \times 950 \text{ l/day} = 5,700 \text{ l/day}$
3. $70 \text{ loading bays} \times 150 \text{ l/day} = 10,500 \text{ l/day}$

$$\text{Average Total Flow (Q}_{\text{avg}}) = 34,232 \text{ l/day}$$

Equivalent Population Density Calculation:

Per the City of Hamilton Comprehensive Development Guidelines and Financial Policies Manual Section E.1.4. Design Flows “Sanitary sewers shall be designed for 360 litres per day per capita” (l/d/c)

1. $(34,232 \text{ l/d}) / (360 \text{ l/d/c}) = 95 \text{ persons}$
2. $95 \text{ persons} / 9.7 \text{ ha property} = \mathbf{10 \text{ ppha}}$