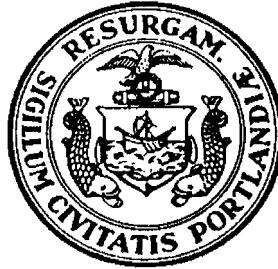


CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

Department of Public Services,
55 Portland Street,
Portland, Maine 04101-2991



Mr. Frank J. Brancely,
Senior Engineering Technician,
Phone #: (207) 874-8832,
Fax #: (207) 874-8852,
E-mail: fjb@portlandmaine.gov

Date: 9-11-15

1. Please, Submit Utility, Site, and Locus Plans.

Site Address: 415 Cumberland Ave, Portland ME 04101

Chart Block Lot Number: 036 - G033

Proposed Use: Multi Family Housing

Previous Use: Office

Existing Sanitary Flows: 349 GPD

Existing Process Flows: N/A GPD

Description and location of City sewer that is to receive the proposed building sewer lateral.

Site Category | Commercial (see part 4 below)
Industrial (complete part 5 below)
Governmental
Residential
Other (specify)

| |
|---|
| |
| |
| |
| x |
| |

(Clearly, indicate the proposed connections, on the submitted plans)

2. Please, Submit Contact Information.

City Planner's Name: _____ Phone: _____

Owner/Developer Name: Patrick Ducas

Owner/Developer Address: 17 Chestnut Street, Portland ME 04101

Phone: 207-536-0838 Fax: _____ E-mail: patrickd@ducasconstruction.com

Engineering Consultant Name: N/A

Engineering Consultant Address: N/A

Phone: _____ Fax: _____ E-mail: _____

(Note: Consultants and Developers should allow +/- 15 days, for capacity status, prior to Planning Board Review)

3. Please, Submit Domestic Wastewater Design Flow Calculations.

Estimated Domestic Wastewater Flow Generated: 1,440 GPD

Peaking Factor/ Peak Times: _____

Specify the source of design guidelines: (i.e. "Handbook of Subsurface Wastewater Disposal in Maine,"
"Plumbers and Pipe Fitters Calculation Manual," Portland Water District Records, Other (specify)

(Note: Please submit calculations showing the derivation of your design flows, either on the following page, in the space provided, or attached, as a separate sheet)

4. Please, Submit External Grease Interceptor Calculations.

Total Drainage Fixture Unit (DFU) Values: N/A
Size of External Grease Interceptor: _____
Retention Time: _____
Peaking Factor/ Peak Times: _____

(Note: In determining your restaurant process water flows, and the size of your external grease interceptor, please use The Uniform Plumbing Code. Note: In determining the retention time, sixty (60) minutes is the minimum retention time. Note: Please submit detailed calculations showing the derivation of your restaurant process water design flows, and please submit detailed calculations showing the derivation of the size of your external grease interceptor, either in the space provided below, or attached, as a separate sheet)

5. Please, Submit Industrial Process Wastewater Flow Calculations

Estimated Industrial Process Wastewater Flows Generated: N/A GPD
Do you currently hold Federal or State discharge permits? Yes No
Is the process wastewater termed categorical under CFR 40? Yes No
OSHA Standard Industrial Code (SIC): <http://www.osha.gov/oshstats/sicser.html>
Peaking Factor/Peak Process Times: _____

(Note: On the submitted plans, please show where the building's domestic sanitary sewer laterals, as well as the building's industrial-commercial process wastewater sewer laterals exits the facility. Also, show where these building sewer laterals enter the city's sewer. Finally, show the location of the wet wells, control manholes, or other access points; and, the locations of filters, strainers, or grease traps)

(Note: Please submit detailed calculations showing the derivation of your design flows, either in the space provided below, or attached, as a separate sheet)

Notes, Comments or Calculation

long periods of time. As such, these design flows anticipate variations in flow among different establishments of the same class as well as flow variations over time in the same establishment. These design flows also assume wastewater with strengths typical of the class of establishment.

3. Design flow: Each component of the system must be designed and installed to adequately treat and dispose of the amount of wastewater expected to be discharged from the premises to be served. Design flows for private residences are prescribed in Section 4(E) and Table 4A. Design flows for commercial or institutional establishments are prescribed in Section 4(F) and Table 4C.

E. DESIGN FLOWS FOR DWELLING UNITS

1. Single-family dwelling units: The design flows for single-family dwelling units including in-law apartments, connected to subsurface wastewater disposal systems is calculated, based on Table 4A.

**TABLE 4A
DESIGN FLOWS FOR SINGLE FAMILY DWELLING UNITS**

| Bedrooms | GPD per dwelling unit |
|--------------------------|-----------------------|
| 2 or less | 180 |
| 3 | 270 |
| 4 | 360 |
| 5 | 450 |
| 6 | 540 |
| Each additional bedroom | 90 per bedroom |
| In-law apartment | 120 |
| Primitive disposal field | 25 |
| Limited disposal field | 100 |
| Bunkhouse | 20 per bed |

(6) 1 Beds x 120gpd = 720 GPD
 (4) 2 beds x 90gpd = 720 GPD
 Total projected GDP = 1,440.00 GPD

2. Multiple family dwelling units: The design flow for multiple family dwelling units is calculated at 120 gallons per day per unit for 1-bedroom units, and 90 gallons per day per bedroom for multiple bedroom units.

F. DESIGN FLOWS FOR OTHER FACILITIES

1. General: The design flow must be the maximum flow that may reasonably be expected to be discharged from a residential, commercial, or institutional facility on any day of operation. It must be expressed in gallons per day. The design flow must not be considered as an average daily flow. It incorporates a factor of safety over the average flows to accommodate peak wastewater flows or facilities that discharge greater than the average flows of wastewater either occasionally or on a regular basis. The design flow is calculated as follows:
2. Base flow: To determine base design flow, multiply the design flow per unit/user from the value in Table 4C by the number of units or users.
3. Employee contribution: When employees will be present at the establishment, estimate the maximum number of employees who may be present during a single day of operation. Then multiply the number of employees by the design flow per employee.
4. Design flows: The values listed in Table 4C are minimum requirements for average facilities in the categories listed and the total design flow is the result of the summation of base flow in Section 4(F)(2) and Employee Contribution in Section 4(F)(3). Where actual water use data is available relating to the facility, the Department may approve the use of an alternative design flow. In such a case, the value used for the design flow must meet the requirements in Section 4(G).
5. Non-standard design flows: Design flows which are not based upon Table 4A or Table 4C, or upon water use records, require prior review and approval from the Department.