

CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

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



David Margolis-Pineo
Deputy City Engineer
207-874-8850
207-400-6696
dmp@portlandmaine.gov

Date: April 5, 2016

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

Site Address: 749 Congress Street

Chart Block Lot Number: 47/A20, A28, A30 & A32

Proposed Use: Residential / Hotel-Restaurant
 Previous Use: Residential / Funeral Home
 Existing Sanitary Flows: 550 +/- GPD
 Existing Process Flows: 0 GPD
 Description and location of City sewer that is to receive the proposed building sewer lateral.
Mellen Street-Residential / Congress Street-Hotel/Restaurant

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

X
X

Clearly, indicate the proposed connections, on the submitted plans.

2. Please, Submit Contact Information.

City Planner's Name: Shukria Wiar Phone: 207.756.8083
 Owner/Developer Name: Denovo LLC (Joe Delois)
 Owner/Developer Address: 47 Waites Landing Road, Falmouth, ME 04105
 Phone: 207.899.4068 Fax: _____ E-mail: joedelois@gmail.com
 Engineering Consultant Name: Pinkham & Greer, Civil Engineers (Thomas S. Greer P.E.)
 Engineering Consultant Address: 28 Vannah Avenue, Portland, ME 04103
 Phone: 207.781.5242 Fax: 207.781.4245 E-mail: tgreer@pinkhamandgreer.com

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: 3,610 + 1,194 Restaurant GPD
 Peaking Factor/ Peak Times: 7am & 6pm
 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)
ME Subsurface Wastewater Code

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.

Hotel = 100 gpd/bedroom	1,600
Employees=10 gpd x12	<u>120</u>
	1,720

7 Residential Units @ 270 gpd = 1,890

4. Please, Submit External Grease Interceptor Calculations.

Total Drainage Fixture Unit (DFU) Values: 4

Size of External Grease Interceptor: 500 gallons

Retention Time: 2 hrs

Peaking Factor/ Peak Times: Peaking Factor 5, 8am - 8pm

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, or attached, as a separate sheet.

Eating Place 3 meals/day
30 gpd / seat + 12 gpd employee

35 seats x 30 gpd = 1,050 gpd
12 employees @12 pgd = 144 gpd
Total 1,194 gpd

$1,194 / 24 = 49.75 \text{ gal/hr} \times \text{peak fo } 5 = 248.75$

Retention time
 $248.75 \text{ ghr} / 500 \text{ gallons} = 2 \text{ hours}$