Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 09/18/17

CITY OF PORTLAND WASTEWATER CAPACITY APPLICATION

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

Date: June 20, 2017

Bradley Roland, P.E.
Water Resources Division

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

Site Address: 7 Diamond Pass, Peaks Island

Chart Block Lot Number: 90-A-1

Proposed Use: Single Family with Guest House
Previous Use: Single Family
Existing Sanitary Flows: Unknown GPD
Existing Process Flows: N/A GPD
Description and location of City sewer that is to receive the proposed building sewer lateral.

Install new 4" service to tie into stubbed service from Island Ave.

Site Category

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

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

2. Please, Submit Contact Information.

City Planner's Name: TBD Phone:
Owner/Developer Name: Sam Spirn
Owner/Developer Address: 61 Chandler Street, Apt. 2, Boston, MA 02116
Phone: 617-849-0601 Fax: E-mail: sspirn@berkshirepartners.com
Engineering Consultant Name: Silas Canavan, PE, Walsh Engineering Associates, Inc.
Engineering Consultant Address: 1 Karen Drive, Suite 2A, Wesbrook, ME 04092
Phone: 207-553-9898 Fax: E-mail: silas@walsh-eng.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: 470 GPD
Peaking Factor/ Peak Times: PF = 2.2
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)* Maine Subsurface Wastewater Disposal Rules/TR-16

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.

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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, or attached, as a separate sheet.

WALSH
ENGINEERING ASSOCIATES, INC.

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Wastewater Design Flow Calculations
Single Family House with Guest House
7 Diamond Pass
Peaks Island
Portland, Maine

Proposed conditions:

- Single family house with guest house
  - House: 5 bedrooms
  - Guest House: 1 bedroom

Design flows from Maine Subsurface Wastewater Disposal Rules, Tables 4A & 4C

- 450 GPD/5 bedroom dwelling + 20 GPD/bunk house bed

Average Daily Flow Q_{ave} = 450 GP + 20 GPD= **470 GPD**

Peaking Factor = 2.2

Per TR-16 Guides for the Design of Wastewater Treatment Works, Figure 1, pop. = 70,000

Maximum Daily Flow Q_{max} = 470 GPD (2.2) = **1,034 GPD**

One Karen Drive, Suite 2A I Westbrook, Maine 04092

phone 207.553.9898 I www.walsh-eng.com