



## Plumbing Fixture Unit Count for Single Family Dwellings, Suites, & Duplexes

Site Address: \_\_\_\_\_ Building Permit #: \_\_\_\_\_

| Type of Fixture   | Minimum Size of Supply Pipe (inches) | Hydraulic Load Fixture Units (A)                           | Number of Fixtures (B)<br><i>(existing &amp; new)</i> | Total Load (Ax B) |
|---|--------------------------------------|--|---|-------------------|
| Bathroom group* - 6 LPF tank (based on 1/2" bathtub supply pipe)  | n/a                                  | 3.6  |   |                   |
| Bathroom group* - > 6 LPF tank (based on 1/2" bathtub supply pipe)  | n/a                                  | 6  |   |                   |
| Bathroom group* - more than 3 fixtures  | n/a                                  | Add add'l fixture to fixture load for bathroom group above |   |                   |
| Bathtub with or without shower head   | 1/2                                  | 1.4  |   |                   |
| Bathtub with 3/4" spout   | 3/4                                  | 10   |   |                   |
| Clothes washer (3.5kg)  | 1/2                                  | 1.4  |   |                   |
| Dishwasher - domestic   | 3/8                                  | 1.4  |   |                   |
| Hose bibb   | 1/2                                  | 2.5  |   |                   |
| Hose bibb   | 3/4                                  | 3  |   |                   |
| Hose bibb, combination hot & cold   | 1/2                                  | 2.5  |   |                   |
| Lavatory - 8.3 LPM or less  | 3/8                                  | 0.7  |   |                   |
| Lavatory - > 8.3 LPM  | 3/8                                  | 1  |   |                   |
| Sink - bar  | 3/8                                  | 1  |   |                   |
| Sink - kitchen domestic, 8.3 LPM  | 1/2                                  | 1.4  |   |                   |
| Sink - kitchen domestic, > 8.3 LPM  | 3/8                                  | 2  |   |                   |
| Sink - laundry (1 or 2 compartments)  | 3/8                                  | 1.4  |   |                   |
| Shower head - 9.5 LPM or less per head  | 1/2                                  | 1.4  |   |                   |
| Shower head - > 9.5 LPM per head  | 1/2                                  | 2  |   |                   |
| Shower - spray, multi-head, <i>fixture unit</i> per head  | Refer to manufacture recommendations | 1.4  |   |                   |
| Water closet - 6 LPF or less with flush tank  | 3/8                                  | 2.2  |   |                   |
| Water closet - > 6 LPF with flush tank  | 3/8                                  | 3  |   |                   |
| Floor drain   | n/a                                  | 0  |   |                   |
| HWT - domestic  | n/a                                  | 0  |   |                   |
| Irrigation - 3/4" supply  | 3/4                                  | 8 (7 gpm)  |   |                   |
| Irrigation - 1" supply  | 1                                    | 17 (17 gpm)  |   |                   |
| Domestic Fire Protection Sprinklers   |                                      | As per Eng. specs  |   |                   |
| <b>Total: (use Total Load to determine required pipe size below)</b>  |                                      |  |   |                   |
| <b>Water Service Pipe Sizing (from property line to house; Table 2.6.3.4 of BCPC 2018)</b><br><i>(water velocity @ 2.4m/s based on PEX/copper/CPVC)</i> |                                      |  |   |                   |
|   | <b>Max Total Load Permitted</b>      | <b>Required Pipe Size (inches)</b>                         | <b>Existing</b> or <b>Need to Upgrade</b>             |                   |
|   | 16                                   | 3/4"   |   |                   |
|   | 31                                   | 1"   |   |                   |
|   | 57                                   | 1 1/4"   |   |                   |

\*Bathroom Group = 1 water closet, 1 lavatory, 1 bathtub with/without shower or shower only