

# Water Service Sizing Form

## District of Saanich – Inspection Services



**BUILDING BYLAW LICENSING  
& LEGAL SERVICES**

Address: \_\_\_\_\_ Date: \_\_\_\_\_

**Number of Fixtures and Fixture Units (2018 Code)  
for Single Family Dwelling/Duplex Plumbing Applications**

	No. of Fixtures	FU load/fixture	Total Fu
Bar Sink		.75	
Basin*		.7	
Bathtub (with or without shower)		1.4	
Clothing Washer		1.4	
Dishwasher		1.4	
Kitchen Sink**		1.4	
Laundry Sink**		1.4	
Shower (per head)***		1.4	
Water Closet)****		2.2	
Bathroom Group		3.6	
Sub Total			

	No. of installed
SFD Service Laterals	
Area Sump/Catch Basin	
Irrigation System	
Swimming Pool	
Sprinkler Heads (first 5)	
Additional Heads (each 10)	
Sewer/Drain/Water	
Floor Drains	

Hose Bibs		2.5	
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**FIXTURE UNITS/HYDRAULIC TOTALS**

\*1.0 FU if greater than 8.3 LPM

\*\*2.0 FU if greater than 8.3 LPM

\*\*\*2.0 FU if greater than 9.5 LPM

\*\*\*\*3.0 FU if greater than 6 LPM

**Sizing of Water Distribution Systems**

<u>Size of Water Pipe, inches</u>	Water Velocity, m/s			Pipe velocity
	3.0	2.4	1.5	
1/2	8	7	4	1.5 m/s (5ft/s) • copper hot
3/4	21	16	9	2.4 m/s (8ft/s) • copper cold • plastic
1	43	31	18	
1 1/4	83	57	30	

<b>Min. Water Pipe Size ***</b>	
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