

Water Data Card

City of Ottawa

fax: (613) 728-4183

phone: 311 x

REV0_2024

Water Meter Service Address:
Project Proposed (New / Existing):

New

Property Owner:

Building Service Class (BSC):

Residential - Commercial

Questionnaire Completed by:

Contact Phone Number:

Mechanical Contractor (if applicable):

Mech. Contact Phone Number:

Submission Date: (dd-mmm-yy)

Today is: 31-Jan-25

Fixture Description	# of Fixtures		
Bathtub			
Bedpan Washers			
Bidet			
Dental Unit			
Drinking Fountains			
Faucet (kitchen sink)	8		
Faucet (lavatory)			
Shower (single head)			
Utility Sink	2		
Toilet (flush valve)	3		
Toilet (tank)			
Urinal (flush valve)			
Urinal (wall or stall)			
Dishwasher	1		
Clothes Washer			
1/2" Hose (50 ft. Wash Down)			
5/8" Hose (50 ft. Wash Down)			
3/4" Hose (50 ft. Wash Down)	4		
<u>Enter Continuous Demand below (if applicable) *</u>			
	1	143	143.0
			0.0
			0.0
fixture description	Qty.	(L/min)	

Note: Irrigation is assumed to occur off peak demand period.

	Value	Units	Response
Property Area Class Code : RC		ha	.01 to 200
# of Connections to City Watermain:			0 to 20
# of Buildings on Site:	2		0 to 100
<u>Length of Private Main (if applicable)</u>		km	.01 to 100
# of Private Hydrants on Property:			0 to 200
<u>Maximum Fire Flow Available</u>		l/min.	1,000 to 50,000
<u>Phased Development?</u>			yes/no
<u>Static Main Pressure @ Property Line</u>		psi	36 to 99
<u>Service Length (supply main to meter)</u>		m	2 to 1,500
<u>Service Dia. (supply main to building)</u>	100	mm	19 to 406
<u>Supply main elev. minus meter elev.</u>		m	-30 to 30
<u>Existing Isolation Valve Clearance:</u>		mm	190 to 3,000
<u>Meter Isolation Valve Size:</u>	3"	in	3/4" to 6"
<u>Pipe Dia. (outlet side of meter)</u>	75	mm	19 to 406
<u>Required Fire Flow @ 20 psi</u>		l/sec	10 to 1000
# of Units/Suites/Apts			1 to 2,000
# of Stories (above grade)			1 to 50
Booster Pumps (Domestic Supply)	No		yes/no
Booster Pumps (Fire Protection)	No		yes/no
			Calc. Value
<u>Fixture Value Total</u>	58	(FV)	#VALUE!
<u>Maximum/Peak Demand (Domestic)</u>	200	l/min.	Static PSI Req'd
<u>Continuous Demand (if applicable)</u>	143	l/min.	Static PSI Req'd
	343	total	
			#N/A

		31-Jan-25		31-Jan-25
		343	l/min.	
		20	psi	Static PSI Req'd
			psi	
			psi	
			psi	
Meter Size/Type			HL@ GD >	
			Safe max.	
template size/length			mm (B)	
Min. Isolation Valves Clearance (MIVC)			mm (A)	

Water Data Card - Instructions and Definitions
Owner/Applicant to complete Parts A, B and C and return to City of Ottawa

Water Meter Service Address

Contact the Customer Service Department at (613) 580-2424 ext 22300, to determine the service address for existing meters. New service addresses will be assigned by the City, and may differ from the Property Address.

Project Proposed (New / Existing)

New - No previous meter for the address Existing -
Previous meter at this address; includes any additions, renovations or
meter sizing reviews.

Building Service Class - Class Code

Single Detached - R1, Semi Detached - R2 Duplex - R3, Row &
Townhouse - R5
Apartment Less Than 5 Floors - R7
Apartment With More Than 4 Floors - R8
Residential - Commercial - RC
Government & Private Offices - OF
Regional Shopping Center - C1
Strip Mall - C2, Other Commercial - C3
Transportation Facility - TR
Agricultural Farms - AG, Utilities - UT
Active Recreational Facilities - RA,
Passive Recreational Facilities - RP, Indust-Manuf Warehousing
& Whole - M1 Industrial Mall - M2, Elementary School - I1
Secondary School - I2
Post-Secondary School - I3
Hospital, Rehab/Nursing Home - I4
Other Institutions - I5, Vacant Land - V1

Length of Private Main (if applicable)

Do you have watermain on your property? Private
watermain is potable water pipes that supply water to water
services and hydrants. The length of private watermain is the
cumulative length measured from the property line to any connected
private hydrant. All other pipes on private property are defined as
"water services".

Maximum Fire Flow Available

NOTE: Complete only if your site has Private Hydrant's
The highest calculated flow rate achievable from a maximum of two
private hydrants flowing simultaneously @ 20 psi dynamic, through
any one City connection. This calculation is likely obtained through a
hydraulic analysis.

Phased Development?

Often larger developments or projects are phased over several years
which means oversizing piping initially to meet anticipated future
demand requirements. Water meters will be sized for the initial phase
with provision for the installation of a larger meter in the future when
the expansion occurs.

Elevation Differential (supply main elevation minus meter elevation)

Calculate the "elevation differential" between the watermain and the
meter. Watermain is typically buried 2.4m below grade.

Static Main Pressure @ Property Line

The pressure is used for determining meter
sizing. Please use City of Ottawa - Water
Distribution System
Facilities & Feeder mains to calculate static
pressure at service entry point to subject
property. (Refer to Tab MAP)

Service Length (watermain to meter)

"Water service" means a potable water pipe
of any size, tapped or teed from a watermain
to a building.

Pipe Diameter (outlet side of meter)

Pipe diameter downstream of the water
meter is used to evaluate water meter sizing.
This pipe may in some cases be referred to
as the "header".

Fixture Value Total

Each plumbing fixture is given a fixture unit
value. "Fixture values", (FV) are used for
water meter sizing purposes. Completion of
Part B - Fixtures will assist in determining the
Fixture Value Total.

Maximum/Peak Demand (Domestic)

The maximum/peak demand is used for
meter and service sizing and has been
calculated based upon AWWA standard
curves.

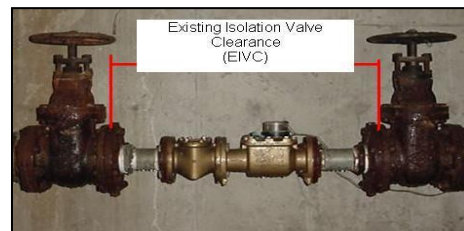
Continuous Demand (if applicable)

Continuous demands are known demands
expressed in (US) gallons/min. For example
a new car wash will use 20 USGPM.
Continuous requirements for water are typically
seen in industry and manufacturing. (Do not
include the usgpm requirements for closed
systems).

Existing/Minimum Isolation Valve Clearance

Existing Installations - the distance (flange to
flange) between the meter isolation valves in
millimeters.

New Installations - the minimum distance
(flange to flange) to be maintained between
the meter isolation valves in millimeters.



Required Fire Flow @ 20 psi (FUS or OBC)

**NOTE: Complete only as required by the
Approvals Department.**

Some developments may require a Site Servicing
Study. In these cases, or as directed by the City, the
required fire flow @ 20 psi must be calculated.
Boundary conditions can be provided upon request
by the City.

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