

Appendix H: Water supply general information Supporting Materials

Commented [SC1]: Only change is appendix heading. No change to contents.

- Basic Guidelines for Sizing a Water Connection

BASIC GUIDELINES FOR SIZING A WATER CONNECTION

These Guidelines for sizing of water connections, meters and backflow requirements are any applicable to the Urban Reticulation (including Castlecliff Main), but not City Bulk Supply or Rural Schemes. (Refer to 'Water Connections & Current Charges' for current water charging costs).

| Connection Type | Specific Design Required (If 'Yes' refer to Water Engineering Office) | Sizing All except Domestic are approved after the purpose/requirements of the connection are supplied to Council by the applicant | Metering (NB = Nominal bore) | Backflow Prevention |
|---|---|---|--|---|
| Domestic Standard (Urban) | Up to two units – No More than two units – Yes | As per Urban Water Connection Sizing table | Yes if connection is 25mm NB or greater | Unlikely |
| Commercial (Urban) e.g. hairdressers, dry-cleaners | Yes | Dependant on purpose e.g. domestic, fire hose, sprinklers, etc | Yes if connection is 25mm NB or greater and is usage more than 350m ³ /year | Dependant on Risk Category Refer to Backflow Risk Categories table |
| Industrial (Urban) e.g. Pacific Park, Tasman Tanning, etc | Yes | Dependant on purpose e.g. domestic, fire hose, sprinklers, etc | Yes | Dependant on Risk Category Refer to Backflow Risk Categories table |
| Horticultural (Urban & Rural) | Yes | Dependant on requirements e.g. m ³ /day, with minimum of 24hr on-site storage | Yes if connection is 20mm NB or greater | Dependant on Risk Category Refer to Backflow Risk Categories table |
| Fire Connections (for City Sprinkler Systems) | Yes May require on-site storage or Pressure Sustaining valve if boost pumping is required to increase pressure supplied from City reticulation | Dependant on requirements i.e. litres/minute @ 'x' kPa, after comments by Whanganui District Council, after flow test results by Sprinkler Designers | Yes if connection is 20mm NB or greater Provided in conjunction with upgrading of existing if not a new connection | Dependant on Risk Category Refer to Backflow Risk Categories table |
| Other Non-specific Applications | Yes | Dependant on specific design | Dependant on specific design | Dependant on Risk Category Refer to Backflow Risk Categories table |

ORIGINAL INFO

| URBAN WATER CONNECTION SIZING CRITERIA | Less than 10m elevation from water main | More than 10m elevation from water main |
|--|--|--|
| Less than 65m from water main | 1 unit = 15mm 2 units = 20mm | 1 unit = 20mm 2 units = 25mm |
| More than 65m from water main | 1 unit = 20mm 2 units = 25mm | 1 unit = 25mm 2 units = 25mm |
| NOTE: Connections for properties with more than 2 units require specific design; refer to Water Engineering office. | | |

REVISED INFO

| URBAN WATER CONNECTION SIZING CRITERIA for up to 2 units* | Less than 10m elevation from water main | More than 10m elevation from water main |
|--|--|--|
| Less than 65m from water main | 20mm | 25mm |
| More than 65m from water main | 25mm | 25mm |
| * Note: Connections for properties with more than 2 units require specific design; refer to Water Engineering office. | | |