



HYDRAULIC PLAN ASSESSMENT INFORMATION AND PROCEDURES



ASSESSMENT OF HYDRAULIC PLANS IS UNDERTAKEN TO ENSURE THE PROPOSED DEVELOPMENT DOES NOT DETRIMENTALLY IMPACT ON THE INTEGRITY OF HUNTER WATER CORPORATION (HUNTER WATER) WATER AND SEWER SYSTEMS.

Hunter Water requires hydraulic plans to be prepared and submitted if the proposed development includes any of the following criteria:

- Water services are 25mm diameter or greater
- There are more than two residential units on the lot
- When a commercial development requires a meter greater than 20mm
- The development requires an internal fire service or alterations to existing services
- There is potential for trade waste to be discharged to Hunter Water sewer or there are alterations proposed to an existing installation
- If there is a request to either upsize or downsize an existing meter
- Any development which is considered to be outside normal connection criteria
- If the development requires an internally boosted water system
- Private pump to sewer systems, other than single residential dwellings

- Multiple water metering systems
- Multiple underground rain water tanks installed when a Hunter Water drinking water supply could be connected indirectly or directly.
- Any alternative water supply systems other than rain water.

Hydraulic Plans should be prepared in accordance with the Plumbing Code of Australia: Plumbing and Drainage and Australian Standards AS/NZ 3500HWCC. Hunter Water also require the following information to be included on plans submitted for review:

- Hunter Water water and sewer mains
- Location of existing water meters and sewer connections
- Type of connection to Hunter Water sewer system ie inspection shaft or boundary trap
- RL's of overflow gullies, floors and the 1 in 100 year flood level
- Cross connections between Hunter Water water system and other water systems
- Trade waste facilities (size, type)



- and description)
- Air conditioning cooling towers.
- The total simultaneous water supply demand per L/Sec.
- The total daily sewerage discharge to Hunter Water sewerage system.
- Information and design drawings if the scope of works extends outside the confines of the property boundary.
- Management/ownership plan
- Registered Strata Plans.
- Strata Plans.

Hunter Water require an application form to be completed and lodged with the appropriate fees and a covering letter.

The covering letter should include the following details:

- A description of plumbing and drainage works required to service the proposed development
- Meter and service sizes and flow rates, including information on how sizes and rates were determined
- The ultimate fixture loading on the house drainage system
- The checklist should also be submitted with the designs.

The plan is then assessed by Hunter Water technical staff to determine the suitability of the design with regard to meeting Hunter Water's requirements.

Assessment of the plan is focussed mainly on the points outlined below:

- The size of services and meters
- Location of meters
- Installation of appropriate backflow prevention devices
- Connection to the sewer system
- The potential for discharge of tradewaste to the sewer system
- Configuration of water storage tanks (including backflow prevention details)
- Pump to sewer arrangements (where applicable).

It should be noted that Hunter Water reserves the right to impose conditions over and above those detailed where considered necessary for a particular development.

Details not assessed by Hunter Water on hydraulic designs:

- Internal hot water, gas and stormwater systems
- Location of plumbing fixtures, floor wastes etc covered by the Building Code of Australia
- Fire services, location of booster and suction points, size of internal pipework, location of hydrants, fire hose reels, wall drenchers and sprinkler heads and fire storage tanks within the lot/development that are covered by the Building Code of Australia

- The performance of water and sanitary drainage fittings and fixtures
- The design and performance of sanitary plumbing and house drainage.
- Approve the use of any water supply fixture, fitting, sanitary or house drainage fixtures, fittings that do not have approval (Water Mark).
- The use, location, size and type of rainwater tanks, not connected to Hunter Water potable water supply.

