

Government of Western Australia Department of Health Public Health and Clinical Services

Supplement to Regulation 29 – Wastewater system loading rates

This factsheet is designed to be read in conjunction with Regulation 29 of the *Health* (*Treatment of Sewage and Disposal of Effluent and Liquid Waste*) Regulations 1974 (Regulations).

The wastewater system (septic tank) loading rates prescribed in Regulation 29 are limited to a number of broad applications. The purpose of this fact sheet is to provide designers of wastewater and associated disposal systems with a more comprehensive list of equivalent premises and uses. The figures below are to be read in conjunction with Regulation 29(1).

This supplement does not cover every possible application and system designers are asked to contact the Water Unit of the Department of Health for further information if a particular use is not listed below.

The following table forms the Department of Health WA's assessment criteria for systems assessed under the Regulations.

Type of Premises (Regulation 29)	Equivalent Use	Combined Flow (L/person/day)
Hotel	Minesite Accommodation Camp Units	180
Motel		140
School (boarding)		140
School (day)		45
Public Building (frequent use)	Offices (non-showering staff) Minesite office facilities Restaurants sit in customers (per sitting) Café sit in customers (per sitting) Church (with cooking and catering facilities) Winery sit in customers – Café and food catering facilities (per sitting) Bakery sit in customers (per sitting)	30

Table 1: Human waste hydraulic loading rates

Type of Premises (Regulation 29)	Equivalent Use	Combined Flow (L/person/day)
Public Building (infrequent use)	Library Community hall Hardware stores Health centre patients (non-showering) Church (with no cooking facilities) Petrol station customers	10
Caravan Parks	3 persons / caravan park bay 2 persons / tent site <i>Park homes / chalets</i> 2 or less bedrooms/dwelling	140 140 564/dwelling
	3 bedrooms/dwelling 4 or more bedrooms/dwelling	761/dwelling 829/dwelling
Swimming Pool		15
Drive-in theatres	2 persons per car	10
Factories & Shops	Restaurant staff Café staff Bakery staff Office staff (using shower facilities) Health centre patients (using shower facilities) Gym (with showers) Caravan park staff member (not living onsite	70
Construction camps (temporary)		45
Clubs		15
Clubs (licensed)		35

There are other types of wastewater generating activities that are not specified by Regulation 29. Under these circumstances the following will apply:

Wastewater Source	Examples	Activity	Total Flow (Liters/day)
Food premises/ Food production	Cafés, Restaurants, Bakeries, etc.	Cooking and food production operations (eg. equipment and floor wash down) - excludes personal hygiene	Refer to Note 1
Commercial waste streams	Winery Brewery Abattoir	Bottle rinsing Wash down Processing	Systems must be separate and not combined with any human waste stream. Also Refer to Note 1
Non-human waste systems	Washdown bays Carwash Dog kennels Horse stables	Wash down	

Table 2: Commercial / industrial waste hydraulic loading rates

Note:

- 1) System owner to propose wastewater / liquid waste hydraulic loading. Hydraulic loading must be based on peak flow events. The following controls will be implemented:
 - Metering of wastewater / liquid waste volumes produced
 - System owner to ensure the maximum capacity of the system is not exceeded

More information

Water Unit Environmental Health Directorate Department of Health PO Box 8172 PERTH BUSINESS CENTRE WA 6849

Telephone: (08) 9388 4999 Fax: (08) 9388 4910

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