

## Trade waste complex (industrial) discharge application

Complex, or industrial trade waste refers to activities generating waste that requires sophisticated pre-treatment systems and where discharge volume may be substantial. Examples include food and beverage manufacturers, metal finishers, hospitals, commercial laundries and waste treatment.

### Important information

Make a summary list of the processes through which your operation produces used water for discharge to the sewer. The summary should include the:

- type of business activity (e.g. electroplating, laundry, vegetable/ fruit processor, hospital, food manufacturer, fish processing, mechanical workshop)
- scale and type of business operation that generates the used water (e.g. operating schedule, production volumes such as number per day of meals prepared, chickens processed, garments laundered, vehicles detailed etc).

#### *Details of wastewater discharge*

This information is essential to determine the suitability of the proposed treatment system and the capabilities of the receiving sewer including:

- **gravity or pumped** refers to how the used water will be discharged to the sewer
- **peak flow rate** must be expressed in litres per second (L/sec) which should be calculated by combining the maximum used water discharge from the business activities
- **duration** is the maximum time the proposed discharge will occur per day (e.g. 1-2 hours Monday to Friday)
- a list of **equipment used** in the business that produces used water (e.g. commercial dishwasher, steam cleaner, number of washing machines, etc)
- a List of contaminants likely to be present in the trade waste discharge (e.g. heavy metals, acids, alkalis, solvents, ammonia, oil/fat emulsions).

#### *Details of proposed pre-treatment system*

The pre-treatment system should be designed to consider a number of factors including:

- any required screening of the used water
- any required settlement to retain silt or similar material
- temperature of the used water
- the volume of used water discharged
- any silt or similar material in the used water
- any oil and/or grease in the used water

- the pH of the waste
- any solvent or chemicals in the used water
- any required backflow prevention.

### Trade waste authorisation process

No work can be undertaken until you complete this application and receive a **trade waste discharge authorisation**.

The trade waste discharge authorisation details the conditions you need to meet before you discharge to the sewer.

We will work with you to review and verify of the suitability of the pre-treatment system. We will visit your premises to inspect your discharge and to work with you by providing advice and support. Together we can ensure you meet your ongoing authorisation conditions.

Where the installation meets our full requirements, your trade waste discharge authorisation will be provided or extended. If the pre-treatment installation does not meet our requirements, amendments or maintenance will need to be made to the pre-treatment system before your trade waste discharge authorisation is provided or extended.

We keep copies of trade waste discharge authorisations as required under the *Water Industry Act 2012*.

### Important documentation

- Before completing this application, please read the **restricted wastewater acceptance framework** on our website. It is available at <http://www.sawater.com.au/business/trade-waste>.
- You must provide **full details** and **accurate information** in your application.
- A **site plan** showing details of the plumbing and pre-treatment layout must accompany this application.
- If there are **any variations** to this application you will need to complete and submit a new application.

Completing the following sections in full will help us process your application quickly.



# Details of the proposed activity

1. Describe the type of business carried out on site (for example food manufacturer, medical centre, electroplating, mechanical workshop)

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	Business hours	Estimated production units per day (if applicable)
Monday to Friday		
Saturday		
Sunday		

2. List of onsite processes (for example sinks, dishwashers, potato peeler, sterilisers, bin wash)

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3. Describe the fixtures and activities on the site which produce wastewater for discharge to sewer (for example sinks, dishwashers, potato peeler, sterilisers, bin wash)

Waste fixtures and equipment	Quantity	What activities generate trade waste?

## 4. Details of wastewater discharge

Discharged to sewer by?      gravity     pump

Peak flow rate                      \_\_\_\_ litres per second

Duration                                \_\_\_\_ hours per day

5. Are there any open/unroofed areas, which may allow stormwater to flow to the sewer?    Yes     No

If yes, please specify the size of area(s), and describe how stormwater will be managed.

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**6. Contaminants likely to be present in the trade waste to be discharged to sewer.** (Please tick appropriate box)

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|---|--|
| <input type="checkbox"/> Heavy Metals                   | <input type="checkbox"/> Sulphur Compounds   |
| <input type="checkbox"/> Acids/Alkalis                  | <input type="checkbox"/> Ammonia             |
| <input type="checkbox"/> Solvents                       | <input type="checkbox"/> Disinfectants       |
| <input type="checkbox"/> Medical Wastes                 | <input type="checkbox"/> Cyanide             |
| <input type="checkbox"/> Dyes/Inks                      | <input type="checkbox"/> Photographic Wastes |
| <input type="checkbox"/> Oil/Fat Emulsions              | <input type="checkbox"/> Petrochemicals      |
| <input type="checkbox"/> Paint                          | <input type="checkbox"/> Other_____          |
| <input type="checkbox"/> Pesticides/Herbicides          | <input type="checkbox"/> Other_____          |
| <input type="checkbox"/> Total Dissolved Solids (Salts) | <input type="checkbox"/> Other_____          |
| <input type="checkbox"/> Chlorinated Hydrocarbons       | <input type="checkbox"/> Other_____          |

**7. Details of proposed pre-treatment systems**

Pre-treatment device	Type / model	Size / capacity	Location	Quantity	Type of lid, if applicable
Grease arrestor					
DAF system					
Settling pit					
Neutraliser pit					
Buffer tank					
pH correction system					
Oily water plate separator					
Hydrocyclone					
Silt trap					
Dry basket					
Solids trap					
Other screening device					
Blow down pit					
Cooling channel					
Membrane water treatment plant					
Chemical water treatment plant					
Other					

**Does the vent termination comply with AS/NZS 3500.2:2015 Section 6.8.4?** Yes  No

**Is pre-treatment device shared with another business?** Yes  No

If yes, how many other businesses are connected to the pre-treatment device? \_\_\_\_\_

**Please return the completed application, together with the relevant documentation, by one of the following methods.**

**Mail to**

Trade Waste  
GPO Box 1751  
Adelaide SA 5001

**In person**

Trade Waste  
250 Victoria Square/Tarntanyangga  
Adelaide SA

**Email**

tradewaste@sawater.com.au

Office hours – 8am to 4pm, Monday to Friday