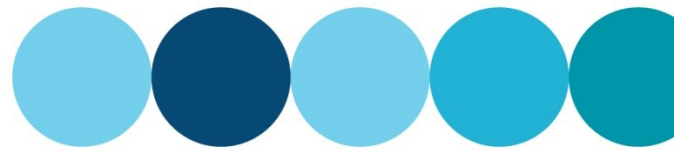


# Supplement 11

## Breweries and Distilleries



This is an attachment to the Trade Waste Application. Please provide the following information about your business operations (or intended operations). This will help us to determine your trade waste requirements and faster processing of your application.

**Business trading name** \_\_\_\_\_

### Production Details

Please provide the expected beer / spirit production volume.

Product category	Start-up annual volume in kL	Projected production volume in kilolitres (kL)	
		At end of year 2	At end of year 5
Beer			
Spirits			

### Process overview

Provide details of all equipment/units in your production process.

Equipment	Number of units	Volume of each unit (L)	Trade waste volume from each wash cycle. (L)	Cycles per Month
Malt Mill				
Mash Tun				
Lauter Tun				
Wort Kettle				
Whirlpool				
Fermenting Tank(s)				
Bright Beer Tank				
Stills				
Condenser				
Other				

Add equipment that is not listed in the blank rows.

**Attach** a process flow diagram and a hydraulic plan showing how trade waste is discharged to sewer

### Process chemicals

**List** all chemicals (eg sodium hydroxide) and commercial formulations (eg Nalco 7326) used in each process, including cleaning routines.

- **Attach** further details if there is insufficient space in this table.

# Supplement 11

## Breweries and Distilleries



- **Attach** Safety Data Sheets (SDS) or other documents for each commercial formulation used in significant quantities showing the composition of the formulation. These are available from the manufacturer or supplier.

Chemical or formulation name	Strength (eg. 10grams per litre)	Supplier	Daily quantity used (eg.5 litres per day)

### Pre-treatment Details

For each waste stream (i.e. brewery and/or distillery), describe the pre-treatment proposed to ensure compliance with the Water Corporation’s [Trade Waste Acceptance Criteria](#).

---

---

---

---

---

---

---

---

---

---

If liquid waste is removed from the premises other than discharge to sewer (for example tankering), describe the type, volume and frequency of waste removed, the method of removal and the ultimate destination.

---

---

---

---

---

---

---

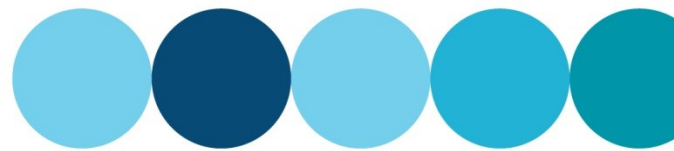
---

---

---

# Supplement 11

## Breweries and Distilleries



### Final Discharge Characteristics

Maximum rate of discharge to sewer \_\_\_\_\_ litres per second  
 Discharge volume to sewer \_\_\_\_\_ kilolitres per day, or \_\_\_\_\_ kilolitres per week  
 Days of week of discharge \_\_\_\_\_  
 Hours of day during which discharge will take place from \_\_\_\_\_ to \_\_\_\_\_

Is the discharge continuous or semi-continuous during this period, or does it occur in discrete batches? If a batch discharge, what is the volume of batches and at what times are they discharged?

---

When is the period of peak discharge each day? from \_\_\_\_\_ to \_\_\_\_\_  
 Temperature range of discharge from \_\_\_\_\_ to \_\_\_\_\_ °C  
 pH range of discharge from \_\_\_\_\_ to \_\_\_\_\_

In the case of a distillery, would you discharge unpolluted condensate water to sewer? Yes   
 No

If Yes;  
 Discharge Volume \_\_\_\_\_ kilolitres per day  
 How would you ensure the discharge temperature is less than 38 degrees centigrade?

---



---

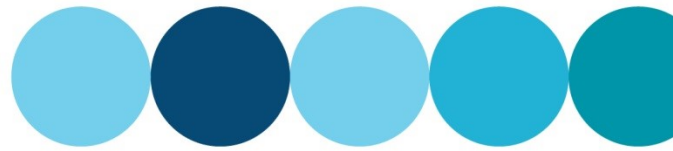
**Indicate** the expected concentration of substances listed below that may be present in the waste discharged into the sewer (if known).

Substance	Concentration (mg per Litre)
Biochemical oxygen demand (BOD <sub>5</sub> )	
Chemical oxygen demand	
Suspended solids	
Nitrogen forms (specify)	
Phosphorus	
Sulphate	

**Add** any additional substances present in the waste which are not listed in the table below.

# Supplement 11

## Breweries and Distilleries



**Note:** If you operate a café and/or restaurant/bar as part of this business, you are required to submit a Supplement 2 Form along with your Trade Waste Application. This supplement form is available on [Water Corporation Website](#).

### Required Attachments

Attachment	Attached (Y, N)	
All SDS	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Process flow Diagram	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Trade waste – Hydraulic plans	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Effluent sample results	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Yes <input type="checkbox"/>	No <input type="checkbox"/>