

Commercial Trade Waste  
Compliance Plan 2015 – 2018

# Commercial Trade Waste Customer Pre-Treatment Guideline

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## 1. Purpose of this Guideline

The purpose of the TasWater Pre-Treatment Guideline (the Guideline) is to provide information and assistance to customers and pre-treatment system designers on TasWater's liquid trade waste pre-treatment requirements.

## 2. Definitions

**Deemed-to-Satisfy Pre-treatment System** means a pre-treatment design that is deemed to satisfy the TasWater performance requirements.

**Pre-treatment device** is a component of a pre-treatment system used to treat liquid trade waste by reducing substance strength prior to discharge to TasWater sewerage infrastructure

**Pre-treatment system** means either one or more pre-treatment devices arranged in sequence to treat the trade waste from a business activity prior to discharge to TasWater sewerage infrastructure.

**Pre-treatment System Performance Requirement** is a pre-treatment system performance standard specified by TasWater. Trade waste substance acceptance limits may form part of a performance requirement.

**Pre-treatment System Performance Solution** is a pre-treatment system design solution that meets TasWater's pre-treatment system performance requirements.

**Trade Waste Substance Acceptance Limits** is one element of a pre-treatment system performance requirement set by TasWater. Limit of a substances concentration prior to discharge to TasWater sewerage infrastructure.

## 3. Guideline Structure

If a commercial pre-treatment system does not meet the TasWater Deemed-to-Satisfy pre-treatment system requirements it is considered a Performance Solution.

Table 1 of the Guideline provides a list of:

- Deemed-to-Satisfy pre-treatment devices; and
- Pre-treatment devices that are considered by these Guidelines as Performance Solutions.

The sizing of a Deemed-to-Satisfy pre-treatment device is to be carried out in accordance with a suitably qualified and experienced designer (refer to Section 4).

TasWater will assess all applications on their merits. There may be instances when additional pre-treatment or pre-treatment to a higher quality may be required within certain sewer catchment areas.

A Performance Solution for a pre-treatment system needs to demonstrate that the design meets the following criteria:

- National Construction-Code Series 2016, Volume 3, Plumbing Code of Australia (PCA), Performance Requirements specified under Part F2 (FP2.1, FP2.2, FP2.3, FP2.4, FV2);

and, either one of the following substance acceptance criteria (*please contact TasWater for the option that relates to the subject site*):

- Schedule 3 of the *Water and Sewerage Industry (General) Regulations 2009*; or
- TasWater trade waste substance acceptance limits for the subject land.

#### 4. Pre-Treatment System Designers

Pre-treatment system designs submitted to TasWater for consideration are to be prepared by a suitably qualified and experienced designer.

The installation of a pre-treatment system will often require Council approval. As such, it is recommended that prior to choosing a designer or preparing a design for someone you check with the relevant Council and Building Surveyor to ensure the pre-treatment designer credentials align with Council and Building Surveyor requirements.

##### *Deemed to Satisfy Designs*

TasWater will accept pre-treatment system designs for TasWater Deemed-to-Satisfy pre-treatment systems from the following suitably qualified and experienced designers:

<b><i>Designer</i></b>	<b><i>Supporting design credential evidence to be provided with pre-treatment system design</i></b>
Tasmanian Licensed Plumber - hold a current Plumbing Licence with the Tasmanian Department of Justice and Professional Indemnity Insurance – Certifier.	<ul style="list-style-type: none"> <li>• Copy of current Tasmanian Plumbing licence</li> <li>• Copy of current Professional Indemnity for pre-treatment design.</li> <li>• Copy of hydraulic calculations for the pre-treatment design (if requested by TasWater)</li> </ul>
Building Services Designer Hydraulic – Limited ( <i>Building Act 2000</i> accredited)	<ul style="list-style-type: none"> <li>• Copy of Accreditation Certificate</li> <li>• Copy of hydraulic calculations for the pre-treatment design (if requested by TasWater)</li> </ul>
Building Services Designer Hydraulic – Restricted ( <i>Building Act 2000</i> accredited)	<ul style="list-style-type: none"> <li>• Copy of Accreditation Certificate</li> <li>• Copy of hydraulic calculations for the pre-treatment design (if requested by TasWater)</li> </ul>

##### *Pre-treatment System Performance Solutions*

The minimum credentials required for a Performance Solution for a pre-treatment system design is dependent on the characteristics of the liquid waste that needs to be treated as well as the capacity of the receiving sewer catchment. As such, design credentials may differ between locations.

Please contact TasWater's Trade Waste Department for performance standards and the minimum acceptable design credentials relevant for a proposed pre-treatment performance solution.

## 5. How to use the Guideline

Table 1 provides a list of trade waste pre-treatment devices and specifies whether the device is considered to be a Deemed-to-Satisfy device. For a pre-treatment system to be considered by TasWater to be a Deemed-to-Satisfy pre-treatment system, all pre-treatment devices that make up the system need to be classified in Table 1 to be Deemed-to-Satisfy devices. If one pre-treatment device in a proposed pre-treatment system is classified in Table 1 as requiring a Performance Solution, the entire pre-treatment system will be considered as a Performance Solution design, not a Deemed-to-Satisfy design.

Tables 2, 4 and 5 provide a list of business activities as well as the required pre-treatment system. The process for determining what type of pre-treatment system is required for the proposed business activity is as follows:

### 1. Select Business Activity Type

Match your business to an activity listed in Tables 2, 4 and 5. If you find that your business type is not listed in this table please contact one of our Trade Waste Officers to assist you.

### 2. Determining What Pre-Treatment is Required

**Step 1** - Identify your Business Activity in Table 2, 4 or 5.

**Step 2** – Refer to the column in the table called “Pre-Treatment System Required”. This will contain one or more reference numbers that relate to the type of pre-treatment devices required. Record the relevant numbers.

**Step 3** –Use the numbers to identify the relevant pre-treatment devices-listed in Table 1. These are the pre-treatment devices that are required to make up the

### 3. Calculate correct size of pre-treatment

Pre-treatment devices are to be sized to adequately accommodate the maximum required discharge rate to the selected device.

When sizing a grease arrestor for a single business activity please refer to Table 3 for assistance in calculating the correct size for your specific application. The sizing of other Deemed-to-Satisfy pre-treatment devices is to be determined by a suitably qualified and experienced pre-treatment system designer.

## 6. Application Process

All commercial trade waste dischargers are to ensure the following requirements are met:

1. All pre-treatment equipment prior to installation must be assessed and approved by TasWater. This requires the applicant to submit an Application for a Certificate for Certifiable Works (CCW). The pre-treatment device installation is not approved until a CCW has been issued by TasWater and approved by the relevant Council through the issue of a Plumbing Permit.

NOTE: A CCW from TasWater is required as part of an application for a plumbing permit to the permit authority at your local Council.

2. Submit a Trade Waste Application Form. This application can be lodged at the same time that you lodge an application for a CCW. Upon completion of works associated with the CCW the owner is to advise TasWater and a new consent will be issued to the owner of the premises for the discharge of trade waste.

## 7. Pre-Treatment Devices

For many commercial customers the Deemed-to-Satisfy pre-treatment devices listed within this Guideline are acknowledged and widely accepted as the best economically available pre-treatment solution and provide an accepted means of treating trade waste to a suitable level prior to discharge to sewer.

Some trade waste may require additional pre-treatment depending on the nature of the trade waste generating activity. This will be assessed upon application to TasWater.

If a device is to be installed outside and above ground consideration should be given to ensuring that the device is constructed from a UV stable material and that it is either permanently shaded or insulated to ensure heat from the sun does not prevent optimal performance of the device.

The selection of the pre-treatment device should be discussed with the manufacturer/supplier in relation to the proposed activity and the location of the device. This will ensure that the device is suitable for the intended purpose.

**Table 1. Pre-Treatment Devices**

	<b>Device</b>	<b>Design Solution</b>	<b>Device Design Standard</b>	<b>Comments</b>
<b>1</b>	Grease Arrestor (up to 5000L) and located in standard sewer catchment areas (refer to Note 1 for Table 1):	Deemed-to-Satisfy	<i>National Construction Code Series 2016, Volume 3, Plumbing Code of Australia, Tas Figure F202e - for indicative device configuration.</i>	Device sizing: Table 3 of TasWater Pre-treatment Guidelines.
	Other Grease Arrestor Devices, i.e.: <ul style="list-style-type: none"> <li>proposed device that has a sizing other than that derived from Table 3 of this Guideline; or</li> <li>located in a non-standard sewer catchment area; or</li> <li>other than the indicative grease arrestor type mentioned in <i>National Construction Code Series 2016, Volume 3, Plumbing Code of Australia, Tas Figure F202e.</i></li> </ul>	Performance Solution	Design to meet Performance Requirements of Part F2, <i>National Construction Code Series 2016, Volume 3, Plumbing Code of Australia</i> and either one of the following acceptance criteria (at the discretion of TasWater): <ul style="list-style-type: none"> <li>Schedule 3 of the <i>Water and Sewerage Industry (General) Regulations 2009</i>; or</li> <li>TasWater acceptance criteria</li> </ul>	Sizing: to be determined by a suitably qualified Designer
<b>2.</b>	Basket Arrestor - Floor	Deemed-to-Satisfy	TasWater Pre-Treatment Guidelines – device is to be based on the: Drawing TWS-C-001.3.B in relation to strainer hole sizing, strainer hole location and basket removability - but adapted for a floor application.	If floor waste is to be located in the floor - a basket arrestor is required to be fitted to the floor waste.
<b>3.</b>	Basket Arrestor - Sink	Deemed-to-Satisfy	TasWater Pre-Treatment Guidelines, Drawing TWS-C-001.3.B for design of device.	Required for all sinks
<b>4.</b>	Fixed and removable mesh screen	Deemed-to-Satisfy	TasWater Pre-Treatment Guideline, Drawing TWS-C-001.2.B for design	Sizing: to be determined by a suitably qualified Designer

			basis for device.	
<b>5.</b>	<p>Approved Oil Water Separators</p> <ul style="list-style-type: none"> <li>▪ Coalescing plate Separator;</li> <li>▪ Vertical Gravity Separator;</li> <li>▪ Hydrocyclone Separation System;</li> </ul>	Deemed-to-Satisfy	<p>Pre-treatment device configuration in pre-treatment system to be in accordance with the relevant business activity specified below and in accordance with the pre-treatment device sequence specified in Table 4.</p> <p>Fuelling areas: refer to TasWater Pre-Treatment Guideline, Drawing TWS-C-001.6.B.</p> <p>Wash down bay: refer to TasWater Pre-treatment Guideline, Drawing TWS-C-0001.5.b.</p>	<p>Additional design considerations:</p> <p>Device sizing to be in accordance with suitably qualified designer.</p> <p>Oil Water Separator sized according to influent flow rate.</p>
<b>8</b>	Blind Sump for collection of waste water to be removed by a licensed contractor			No Connection permitted to TasWater sewerage mains
<b>9.</b>	Cooling pit	Deemed-to-Satisfy	Indicative design to be in accordance with TWS-C-0001.10.B TasWater Pre-Treatment Guidelines	Sizing: to be determined by a suitably qualified Designer (Note: volume of cooling pit should be at least 3 x volume of maximum blow down value).
<b>10.</b>	Amalgam Separator	Deemed-to-Satisfy	Design - as per manufacturer requirements	Sizing: as per manufacturer requirements

<b>11.</b>	Neutralising Tank	Deemed-to-Satisfy	<i>National Construction Code Series 2016, Volume 3, Plumbing Code of Australia, Tas Figure F202.4k - for indicative construction.</i>	Sizing: to be determined by a suitably qualified Designer
	Mixing Tank	Deemed-to-Satisfy	<i>National Construction Code Series 2016, Volume 3, Plumbing Code of Australia, Tas Figure F202.4l - for indicative construction.</i>	Sizing: to be determined by a suitably qualified Designer
<b>12.</b>	General purpose pit		<i>Contact TasWater for design requirements</i>	Sizing by suitably qualified person
<b>13.</b>	Solids settlement pit / silt arrestor	Deemed-to-Satisfy	<i>National Construction Code Series 2016, Volume 3, Plumbing Code of Australia, Tas Figure F202.4m - for indicative construction.</i>	Sizing by suitably qualified person
<b>14.</b>	Baffled settlement pit	Deemed-to-Satisfy	Indicative design to be in accordance with TWS-C-0001.7.B TasWater Pre-Treatment Guidelines	Sizing by suitably qualified person
<b>15.</b>	Lint screen	Deemed-to-Satisfy	Indicative design to be in accordance with TWS-C-0001.11.B TasWater Pre-Treatment Guidelines	Sizing by suitably qualified person
<b>16.</b>	Plaster arrestor	Deemed-to-Satisfy	Contact TasWater for minimum Deemed-to-Satisfy design requirements	Sizing by suitably qualified person
<b>17.</b>	Solvent Interceptor – water based solvents only.  Note: hydrocarbon based solvent discharge to sewer is not	Performance Solution	Design to meet Performance Requirements of Part F2, <i>National Construction Code Series 2016, Volume 3, Plumbing Code of</i>	Sizing by suitably qualified person

	permitted.		<p>Australia and either one of the following acceptance criteria (at the discretion of TasWater):</p> <ul style="list-style-type: none"> <li>• Schedule 3 of the <i>Water and Sewerage Industry (General) Regulations 2009</i>; or</li> <li>• TasWater acceptance criteria</li> </ul>	
18.	Silver recovery unit	Performance Solution	<p>Design to meet Performance Requirements of Part F2, <i>National Construction Code Series 2016</i>, Volume 3, Plumbing Code of Australia and either one of the following acceptance criteria (at the discretion of TasWater):</p> <ul style="list-style-type: none"> <li>• Schedule 3 of the <i>Water and Sewerage Industry (General) Regulations 2009</i>; or</li> <li>• TasWater acceptance criteria</li> </ul>	Sizing: to be determined by a suitably qualified Designer
19.	Radiation Decay Tank	Performance Solution	<p>Design to meet Performance Requirements of Part F2, <i>National Construction Code Series 2016</i>, Volume 3, Plumbing Code of Australia and either one of the following acceptance criteria (at the discretion of TasWater):</p> <ul style="list-style-type: none"> <li>• Schedule 3 of the <i>Water and Sewerage Industry (General) Regulations 2009</i>; or</li> </ul>	Sizing: to be determined by a suitably qualified Designer

			<ul style="list-style-type: none"> <li>TasWater acceptance criteria</li> </ul>	
20.	Marine Sullage Unit	Performance Solution	<p>Design to meet Performance Requirements of Part F2, <i>National Construction Code Series 2016</i>, Volume 3, Plumbing Code of Australia and either one of the following acceptance criteria (at the discretion of TasWater):</p> <ul style="list-style-type: none"> <li>Schedule 3 of the <i>Water and Sewerage Industry (General) Regulations 2009</i>; or</li> <li>TasWater acceptance criteria</li> </ul>	Sizing: to be determined by a suitably qualified Designer
21.	Bottle Trap	Deemed-to-Satisfy	In accordance with manufacturer specifications	Fitted to all hair washing basins.
22.	Silt Sump	Deemed-to-Satisfy	Refer to silt sump diagram on: TWS-C-0001.5.b.	Sizing: to be determined by a suitably qualified Designer

Note 1 (Table 1) – Contact TasWater for details on standard sewer catchments.

## Food Business Activity Pre-Treatment

Table 2 outlines the pre-treatment requirements for types of food business that generate trade waste.

Table 2. Food Preparation Activity	
Activity Generating Trade Waste	Pre-Treatment System Required (refer to Table 1 for required specific devices using the numbers provided below)
<b>Bakery</b> <ul style="list-style-type: none"> <li>• Only bread baked on site</li> <li>• Pies, pasties, sausage rolls, quiches, cakes, pastries with cream or custard</li> </ul>	<p>2, 3, (a)</p> <p>1, 2, 3</p>
<b>Boarding house, Hostel, Motel, Hotel, Bistro</b> <ul style="list-style-type: none"> <li>▪ No hot food</li> <li>▪ With hot food</li> </ul>	<p>2, 3, (a)</p> <p>1, 2, 3, (a)</p>
<b>Butcher</b>	<p>1, 2, 3, (a)</p>
<b>Café/ Coffee Shop/ Sandwich Shop / Delicatessen</b> <ul style="list-style-type: none"> <li>▪ No hot food</li> <li>▪ With hot food</li> </ul>	<p>2, 3, (a)</p> <p>1, 2, 3, (a)</p>
<b>Chicken/ poultry shop</b> <ul style="list-style-type: none"> <li>▪ Retail BBQ/charcoal chicken</li> <li>▪ Only fresh chickens for retail with cutting and preparation on-site</li> </ul>	<p>1(c), 2, 3, (a)</p> <p>1, 2, 3, (a)</p>
<b>Commercial Kitchen/ Caterer / Function Centre / Restaurant</b>	<p>1, 2, 3, (a)</p>
<b>Community Hall with Hireable Commercial Kitchen</b>	<p>1, 2, 3 (a)</p>

<b>Child Care Centre</b>	
<ul style="list-style-type: none"> <li>▪ No hot food</li> </ul>	2, 3 (a)
<ul style="list-style-type: none"> <li>▪ With hot food</li> </ul>	1, 2, 3 (a)
<b>Fast Food Outlet (e.g. KFC, McDonalds, Hungry Jacks, Pizza hut, Subway)</b>	1, 2, 3 (a)(d)
<b>Fish Shop</b>	
<ul style="list-style-type: none"> <li>▪ Fresh fish for retail, no hot food</li> </ul>	2, 3, (a)
<ul style="list-style-type: none"> <li>▪ With hot food</li> </ul>	1, 2, 3, (a)
<b>Fruit and Vegetable Shop / Green Grocer</b>	2, 3, (a)
<b>Garbage bin area</b>	2, (a)
<b>Ice-cream parlour</b>	
<ul style="list-style-type: none"> <li>▪ Takeaway only</li> </ul>	2, 3, (a)
<ul style="list-style-type: none"> <li>• Serve on site</li> </ul>	1, 2, 3, (a)
<b>Juice Bar</b>	2, 3, (a)
<b>Nursing home / Hospital (Kitchen/Dining only)</b>	1, 2, 3, (a)
<b>Oyster Processing (shucking) / Seafood</b>	4, 12
<b>Potato Peeling (small operation)</b>	2, 3, 13, (b)

<p><b>School – other trade waste activities refer to tables 4 &amp; 5</b></p> <ul style="list-style-type: none"> <li>▪ Canteen (no cooking)</li> <li>▪ Canteen ( hot food cooking)</li> <li>• Home Economics (cooking)</li> </ul>	<p>2, 3, (a)</p> <p>1, 2, 3, (a)</p> <p>1, 2, 3, (a)</p>
<p><b>Supermarket</b></p> <ul style="list-style-type: none"> <li>▪ Butcher</li> <li>▪ Deli / Fresh fish and seafood</li> <li>▪ BBQ Chicken</li> <li>▪ Fruit and Vegetable only</li> <li>▪ Bakery - Only bread baked on site.</li> <li>• Bakery - Pies, pasties, sausage rolls, quiches, cakes, pastries with cream or custard.</li> </ul>	<p>1, 2, 3, (a)</p> <p>1(c)</p> <p>1, 2, 3, (a)</p> <p>2, 3, (a)</p> <p>2, 3, (a)</p> <p>1, 2, 3</p>
<p><b>Takeaway</b></p>	<p>1, 2,3, (a)</p>

# For the purpose of this table “hot food” means that greasy/oily wastes are generated as a result of preparing and serving food on the premises as well as throughout the clean-up process. This excludes hot food that does not generate greasy waste e.g. tea, coffee, toasted sandwiches and heated food prepared off site and sold for consumption off-site.

(a) All drainage from sinks and floor waste to pass through basket arrestor.

(b) Peeling machine with built-in screens, discharge not to go through grease arrestor.

(c) 1800 L minimum capacity for chicken cooking steam oven and 1000L minimum capacity for charcoal cooking process.

(d) 2500 L minimum capacity

## Grease Arrestor Sizing

For Deemed-to-Satisfy solutions for grease arrestors use Table 3 as a guide to calculate the size of the grease arrestor required.

### Table 3. Grease Arrestor Sizing Calculator

There are two methods used to determine the size of a Grease Arrestor. Method 1 is by fixture loading and Method 2 is average daily number of meals per day. The larger calculated arrestor size of the two Methods will be considered the Deemed-to-Satisfy design.

Where the total equates to less than 1000L, the installation of a 1000L minimum grease arrestor is considered to be a Deemed-to-Satisfy Design. Grease arrestors less than 1000L in capacity are considered to be a Performance Solution Pre-treatment System Design.

**Method 1 – Fixture Loading** Count the number of fixtures that will drain to the grease arrestor and multiply by the litres per hour.

Fixture	Allowance in Litres Per Hour	Number of Fixtures	Sub Total (Allowance x Number of fixtures)
Dishwasher - Domestic	50		
Dishwasher - Commercial	500		
Dishwasher - Tunnel	1000		
Floor Waste	50		
Sink – single bowl	100		
Sink – double bowl	200		
Sink – pot wash, single (Deeper than 300mm)	200		
Sink – pot wash, double (Deeper than 300mm)	300		
Steamer/Steam combi oven	100		
Wok table – waterless (per burner)	100		
Wok table – continuous (per burner)	180		
Rinse sink	300		
<b>Total</b>			

**Table 3 (Continued)**

**Method 2 - Number of Meals Per Day**

<i>Meals Per Day</i>	<i>Recommended Arrestor Size</i>
Up to 70	1000 Litres
71 to 200	1800 Litres
201 to 400	2400 Litres
401 to 600	5000 Litres
Over 600, or multi-tenant food court	Contact the TasWater Trade Waste Department. DAF or similar device may be required

## Motor Trade Activity Pre-Treatment

Table 4. Motor Trade Activity	
Activity Generating Trade Waste	Pre-Treatment Type (refer to table 1)
<b>Auto Dismantler</b>	22, 5, 14, (b), (c), (d)
<b>Bus / coach / truck depot refuelling</b>	22, 5, 14 (a), (b), (c), (d)
<b>Bus / coach / truck washing</b>	22, 5, 14 (b), (c), (d)
<b>Car detailing (wash down bay)</b>	22, 5, 14 (b), (c), (d)
<b>Construction equipment maintenance (Wash down bay)</b>	22, 5, 14 (b), (c), (d)
<b>Engine / gear box reconditioning</b>	22, 5, 14 (b), (c), (d)
<b>Equipment hire (wash down bay)</b>	22, 5, 14 (b), (c), (d)
<b>Mechanical workshop (excluding dry workshops)</b>	22, 5, 14(b), (c), (d)
<b>Panel beating / spray painting (with vehicle wash)</b>	22, 5, 14 (b), (c), (d)
<b>Radiator repair</b>	8
<b>Lawn mower repair (wash down bay or drainage to sewer)</b>	22, 5, 14 (b), (c), (d)
<b>Service stations covered forecourt</b>	22, 5, 14 (a), (b), (c), (d)
<b>Service Stations (workshop only)</b>	22, 5, 14 (b), (c), (d)
<b>Truck wash (external only)</b>	22, 5, 14 (b), (c), (d)
<b>Vehicle washing / wash bay (automatic self-service, manual cleaning, including engine degreasing)</b>	22, 5, 14 (b), (c), (d)

# Triple interceptor traps are not approved as a sole means of pre-treatment for motor trades waste, but may form part of a system prior to an oil water separator.

- (a) High level alarm (audible and visual) fitted in a position that is clearly visible and audible to staff when they conduct their normal duties. Fuel filling is to occur in a bunded area large enough to ensure that fuel spills are contained and cannot be discharged to sewer.
- (b) A non-emulsifying pump with suction inlet at least 300mm above the bottom of the collection well.
- (c) All cleaning and washing must occur in a bunded area.

(d) To be roofed in accordance with - National Construction Code Series 2015, Volume 3, Plumbing Code of Australia, Tas Figure F201.2 (this is a Deemed-to-Satisfy solution). Where roofing cannot be achieved a stormwater diverter valve must be fitted to the drainage pit, to ensure when the wash bay is not in use rainwater is diverted to stormwater drainage (this is an Performance Solution)

### Other Commercial Trade Waste Activity Pre-Treatment

Table 5. Other commercial trade waste discharging activity	
Activity Generating Trade Waste	Pre-Treatment Type (refer to table 1)
<b>Animal Wash</b>	2, 3, (k)
<b>Boiler blowdown</b>	9 (f), (k)
<b>Cooling tower (Disposal by EPA licenced contractor)</b>	Not accepted to TasWater infrastructure.
<b>Crafts</b>	
▪ Ceramics and pottery	13
▪ Painting (water based solvents)	17
<b>Dental surgery</b>	
▪ No x-ray or plaster casts made on site	10
▪ X-ray (non-digital) and/or plaster cast made on site	10, 16, 18
<b>Distillery</b>	Contact TasWater (pre-treatment will depend on substances of concern)
<b>Doctor's Surgery</b>	
▪ Plaster cast made on site;	16 (k)
▪ X-Ray (non-digital)	18 (k)
<b>Dry Cleaning</b>	3, 4, 9(a), (k)
<b>Exhaust canopy filter cleaning</b>	Contact TasWater (pre-treatment will depend on substances of concern)
<b>Feather Washing</b>	3, 4, 9(a)
<b>Florist</b>	2, 3

<b>Funeral Parlour</b>	2, 4(e), (k)
<b>Garbage Bin Washing</b>	Contact TasWater (pre-treatment will depend on substances of concern)
<b>Hairdressing</b>	2, 3 or 21
<b>Hydroponic agriculture</b>	2, 3 (k)
<b>Laboratory</b>	
▪ Commercial / research	2, 3, 4, 11(k), (h)
▪ Non-commercial / school	3, 4, 11
<b>Laundry / Laundromat</b>	4, 9(a), 11(d), 15(g)
<b>Mobile carpet cleaning</b>	3, (k)
<b>Optical service</b>	14(b)
<b>Pet shop retail</b>	2, 3, 4, (k)
<b>Photographic processing</b>	18 (c), (k)
<b>School / Collage Tertiary - for cooking activities refer Table 1</b>	
▪ Crafts	See crafts in this table
▪ Cooling towers	See in this Cooling Towers Section of this table.
▪ Photographic	See in this Photographic Section of this table
▪ Science Laboratory	3, 4, 11
<b>Screen printing</b>	14(l), 11
<b>Ship to shore pump out</b>	20
<b>Stone Working</b>	13
<b>Swimming pool / spa (non-residential)</b>	11
<b>Veterinary and animal kennels (with x-ray)</b>	2, 3, 4, 18

- (a) Sized to reduce waste water temperature to <38°C
- (b) Sized according to influent flow rate
- (c) If there is no SRU, all silver bearing waste shall be removed from the premises by licenced contractor
- (d) Where necessary
- (e) At drainage outlet of autopsy table
- (f) pH correction if required, such as in-line dosing
- (g) Washing machine internal screens are acceptable
  
- (h) Waste should be sterilised by autoclaving before discharging to balancing
- (i) (Intentionally Blank)**
- (j) (Intentionally Blank)**
- (k) Some substances produced by this activity are prohibited from discharge to sewer – Contact TasWater for advise
- (l) Pit to be PVC lined (or other approved material).