

## Liquid Trade Waste Categorisation and Scheduled Charges 2011/12

**TABLE 1. Trade Waste Customer Categorisation and Scheduled Charges; 2011/12 (GST exclusive)**

	Category 1	Category 2	Category 3	Category 4
<b>Charges: Sampling and Analysis</b>	At cost of Customer	At cost of Customer	At cost of Customer	At cost of Customer
<b>Charges: Trade Waste Application Fee</b>	\$114	\$228	\$1,571	\$2,456
<b>Charges: Annual Agreement Management Fee</b>	\$200	\$291	\$1,057	\$1,656
<b>Charges: Fixed Usage Charge</b>	Fixed Charge \$390	Fixed Charge \$1,320	Volumetric and Load Charges	Volumetric and Load Charges
<b>Charges: \$/kL Volumetric Rate Charge</b>	Not Applicable	Not Applicable	\$/kL from characterisation	\$1.06
<b>Charges: \$/Kg Mass Load Charge; Biological Oxygen Demand</b>	Not Applicable	Not Applicable	Included in Volumetric Charge	\$0.70
<b>Charges: \$/Kg Mass Load Charge; Total Suspended Solids</b>	Not Applicable	Not Applicable	Included in Volumetric Charge	\$0.88
<b>Charges: \$/Kg Mass Load Charge; Total Kjeldahl Nitrogen</b>	Not Applicable	Not Applicable	Included in Volumetric Charge	\$1.67
<b>Charges: \$/Kg Mass Load Charge; Total Oxidised Sulphur</b>	Not Applicable	Not Applicable	Included in Volumetric Charge	\$1.42
<b>Charges: \$/Kg Mass Load Charge; Total Phosphorous</b>	Not Applicable	Not Applicable	Included in Volumetric Charge	\$1.38
<b>Charges: \$/Kg Mass Load Charge; Total Sodium</b>	Not Applicable	Not Applicable	Included in Volumetric Charge	\$0.29
<b>Exceedance Charge – non-compliance with acceptance criteria or deemed status criteria</b>	10 times Fixed Usage Charge or \$10.59/kL		As calculated using Exceedance Charge Formula (Equation 2)	
<b>Non-compliance – recovery of additional costs</b>	At cost e.g. sampling, analysis, investigation, damaged infrastructure reinstatement or replacement and/or biosolids disposal.			
<b>Non-charged parameters</b>	Calculated using Exceedance Charge Formula (Equation 2) and charge rates from Table 2.			

In some circumstances Cradle Mountain Water may include alternative or additional charging parameters As specified in the Trade Waste Agreement.

**TABLE 2. NON-CHARGED PARAMETER RISK SCORES AND CHARGE RATES**

Substance	Risk Score
Acetaldehyde	11
Acetone	4
Aluminium	6
Arsenic	14
Barium	11
Boron	6
Bromine	11
Cadmium	14
Chlorinated phenolics	17
Chlorine	10
Chromium	12
Cobalt	11
Copper	11
Cyanide	14
Fluoride	9
Formaldehyde	8
General Pesticides	16
Herbicides and defoliants	16
Iron	7
Lead	13
Lithium	10
Manganese	10
Mercaptans	14
Mercury	18
Methyl ethyl ketone	6
Molybdenum	6
Nickel	12
Organoarsenic compounds	16
Petroleum hydrocarbon 1 Benzene	10
Petroleum hydrocarbon 2 Toluene	10
Petroleum hydrocarbon 3 Ethylbenzene	10
Petroleum hydrocarbon 4 Xylene	10
Petroleum hydrocarbons - flammable (PH)	10
pH	10
Phenolic compounds (non-chlorinated)	14
Polynuclear aromatic hydrocarbons	11
Propionaldehyde	11
Selenium	11
Silver	11
Sulphate	4
Sulphide	11
Sulphite	7
Temperature	10
Thiosulphate	5
Tin	10
Uranium	10
Volatile halocarbons (VH)	14
Volatile hydrocarbon 1 Chloroform	14
Volatile hydrocarbon 2 Perchloroethylene	14
Volatile hydrocarbon 3 Trichloroethylene	14
Zinc	11

Risk Level	Exceedance Charge Rate (\$/unit#)
0	-
1	0.005
2	0.010
3	0.076
4	0.131
5	0.250
6	0.696
7	1.382
8	2.297
9	3.440
10	6.945
11	13.880
12	22.905
13	34.695
14	69.466
15	138.944
16	694.734
17	1,389.522
18	2,292.668
19	6,947.178
20	13,894.345
21	694,717.297

**Notes:**

\*Units are \$/kg except for pH and temperature which are \$/pH unit and \$/degree Celsius respectively.

Substances not listed above will be given a risk score where required.

### Volumetric Charge

The volumetric charge is calculated as the recorded trade waste volume discharged for the month (kL) multiplied by the volumetric rate charge.

### Mass Load Charge

The Mass Load Charge will be calculated with the following equation:

$$\text{Load Charge (\$)} = \frac{S \times Q \times U}{1,000} \quad \text{(Equation 1)}$$

Where:

S = Concentration (mg/L) of substance in sample.

Q = Volume (kL) of trade waste discharged.

U = Charging rate (\$/kg) for discharge of substance.

Charging rates (U) are set out in Table 1 and Table 2.

### Exceedence Charges

Exceedence Charges will be applied by the Corporation when a Customer is not compliant with acceptance standards set by the Corporation.

A maximum Exceedence Charge of \$5,000 per day applies. A minimum Exceedence Charge of \$500 per day applies for parameters with a risk score of 10 or greater (See Table 2)

Exceedence Charges are levied in addition to Usage Charges.

### Exceedence (non-compliance) Charge (Category 3 and 4 Customers)

This charge will be calculated by measuring the exceedence of the relevant Acceptance Criteria based on the exponential type formula:

$$E_c = 2C \times (A_c/S_a) \times 1.05^{(A_c-S_a)/S_a} \quad \text{(Equation 2)}$$

Where:

E<sub>c</sub> = Exceedence Charge Rate

C = Charging Rate for parameter (\$/kg or \$/kL)

A<sub>c</sub> = Actual Exceedence Concentration (mg/L or kL/day)

S<sub>a</sub> = Acceptance Limit (mg/L or kL/day)

### Exceedence Charge (Category 1 and 2 Customers)

An inappropriate pre-treatment penalty charge of \$10.59/kL or 10 times Fixed Usage Charge will apply to minor customers not complying to set requirements of the Corporation.

### Exceedence (Inspection, Monitoring or Auditing) Charge

The response to non-compliance may include the sampling and analysis of Trade Waste discharges by the Corporation, the cost of which will be billed to and paid by, the Customer as an Exceedence Charge.

### Other Charges

Any other cost to the Corporation incurred in relation to the provision of the Trade Waste services for the benefit of the Customer, or the Premises will be levied by the Corporation and paid by the Customer.

**TABLE 3. CHARGING PARAMETERS**

Parameter	Reasoning
Biological Oxygen Demand	To protect people, protect WWTP processes, recover treatment and disposal costs, facilitate WWTP license compliance, and protect sewerage infrastructure.
Sodium	To protect WWTP processes, recover treatment and disposal costs, facilitate WWTP license compliance, and facilitate current or future effluent reuse options.
Total Kjeldahl Nitrogen	To recover treatment costs and facilitate WWTP license compliance.
Total Oxidised Sulphur	To protect people and sewerage infrastructure.
Total Phosphorus	To recover treatment costs and facilitate WWTP license compliance.
Total Suspended Solids	To protect people, protect WWTP processes, recover treatment, conveyance and bio-solids disposal costs, facilitate WWTP license compliance, and protect sewerage infrastructure.