Coliban WATER

Criteria for admission of trade wastes into the Corporation's sewerage systems

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Title

This document comes into effect on the first day of January, 2011.

Objective

The objective of this document is to make provisions for the admission to the Corporation's sewerage systems of Trade Waste, whilst providing protection to the Corporation's sewerage systems and treatment plants, and the environment into which the treatment plants effluents are discharged.

Authorising provision

This criterion is made pursuant to the *Essential Services Commission Trade Waste Customer Service Code* and the *Water Act 1989.*

Definition

Any word or phrase that is not defined by this criteria, but has a meaning given to it under the *Water Act 1989*, takes the meaning of such word or phrase under the *Water Act, 1989*.

For the purpose of these criteria, 'Trade Waste' means any waterborne waste which complies with the characteristics detailed in this criteria for discharge into the Corporation's sewerage system.

Criteria

Physical characteristics

1. Temperature

The temperature shall not exceed 38 degrees celsius.

2. Solids

- The concentration of suspended solids shall not exceed 1,000 mg/L.
- The concentration of total dissolved solids shall not exceed 5,000 mg/L.
- No fibrous material which in the opinion of the authorised officer is likely to cause obstructions in the sewer or drain shall be present.
- Gross solids shall pass a bar screen with 10mm spaces between bars and shall have a quiescent settling velocity not greater than 3 metres per hour.

3. Oils and greases

- There shall be no free or floating layer.
- Emulsified oil, fat and grease shall not exceed 1,000 mg/L as Trichlorotriflouroethane extractable matter and the emulsion must be stable within the range of PH 4.5 to Ph 10.0.
- Where emulsified oil is not stable over the above PH range, the total oil content shall not exceed 200 mg/L.

4. Organic liquids

- There shall be no free layer of organic liquids.
- The concentration of flammable or toxic organic liquids in any waste shall not exceed those prescribed from time to time by the Authorised Officer.

5. Resins

Natural or synthetic resins, plastic monomers, synthetic adhesives, unstable rubber or plastic emulsions or any like material shall not exceed those permitted by the Authorised Officer.

6. Radioactivity

Wastes shall comply with the standards specified in the Irradiating Apparatus and Radioactive Substances Regulations made pursuant to the provisions of the *Health Act* and in force in Victoria at first July 1979.

7. Colour

The limitations for colour shall be;

- The assessment of colour in a trade waste shall be on a filtered sample of waste discharged to the sewer.
- The trade waste shall have a colour not exceeding 300 true colour units.

Chemical characteristics

1. PHvalue

The PH value shall be within the range: 6.0 to 10.0

2. Organic strength

The Chemical Oxygen Demand concentrations shall not exceed 2,000 mg/L.

The Biochemical Oxygen Demand concentrations shall not exceed 1,000 mg/L.

3. Nitrogen

The concentration of Total Kjeldahl Nitrogen shall not exceed 60 mg/L.

4. Phosphorus

The concentration of Phosphorus shall not exceed 10 mg/L.

5. Corrosive and toxic substances

- The maximum allowable concentrations in milligrams per litre of corrosive and toxic substances shall be as stated in table 1.

Table 1

Ammonia plus ammoniacal ion, expressed as N	50
Arsenic	1
Boron	10
Bromine as Br2	5
Chlorine as Cl2	5
Cyanide as CN	5
Fluoride	30
Formaldehyde as HCHO	200

Iodine as I2	5
Phenol and chemical derivatives of phenol (as phenol)	100
Selenium	10
Sulphates	300
Sulphide as S	1
Sulphite as S	30
Thiosulphate as S	20

Where sulphite and thiosulphate are both present in the waste stream:

Sulphite as S plus 0.4 times Thiosulphate as S	8

- No waste which the Authorised Officer deems may be toxic to any person, to sewage treatment processes of Coliban Water, to the environment receiving treated effluent or may be harmful to the composition of the sewer or other equipment comprising the sewerage system shall be discharged to a sewer or drain without the specific approval of the Authorised Officer.

6. Sulphates

Where the sulphate concentration discharged to a sewer or drain exceeds 300 mg/L (expressed as S04) all waste streams within the property which have concentrations of sulphate material greater than 1500 mg/L (expressed as S04) shall be subjected to treatment by the occupier using the best practicable technology, such as has been approved by the Authorised Officer taking into account any relevant submission by the occupier regarding the effectiveness of alternative treatment processes and the likely benefits in terms of removal of sulphate material, in order to reduce the sulphate material in each such waste stream to as low a level as possible prior to mixing and resultant dilution from any other source within the property.

7. Metals

The maximum allowable concentrations in milligrams per litre of metals discharged to the various sewer systems shall be as stated in table 2.

Table 2

Aluminium	100.000
Cadmium	0.050
Chromium	5.000
Copper	2.000
Iron	30.000
Lead	2.000
Mercury	0.005
Nickel	2.000
Zinc	5.000

8. Pesticides

The maximum allowable concentrations in milligrams per litre of pesticides discharged to the various sewer systems shall be as stated in table 3.

Table 3

Aldrin	0.001
Chlordane	0.006
DDT	0.003
Dieldrin	0.001
Heptachlor	0.003
Lindane	0.100

9. Halogenated Aromatic Hydrocarbons (HAH)

The maximum allowable concentrations in milligrams per litre of the HAH's discharged to the various sewer systems shall be as stated in table 4.

Table 4

Polychlorinated Biphenyls (PCB's)	0.002
Polybrominated Biphenyls (PBB's)	0.002

Section B

The nature and levels of the components and characteristics of any waste discharged to a sewer or drain shall comply at all times with the standards and other requirements for the acceptance of such components and characteristics agreed to by Coliban Water and included in the agreement.