Statement of Approved Acceptance Criteria

standards for the acceptance of trade waste discharged to any of East Gippsland Water's sewerage systems

East Gippsland Water accepts a variety of industrial and commercial trade waste, all of which must comply with the following standards before being discharged into the sewerage system. Exceptions to these standards may be granted and will be stated on the Trade Waste Agreement.

Physical Characteristics

1. Temperature

The temperature shall not exceed 38 degrees Celsius.

2. Solids

a) Gross solids shall pass a bar screen with 13 mm openings between the bars and gross solids shall have a quiescent settling velocity not greater than 3 m/hr;

b) The suspended solids concentration shall not exceed 500 mg/l;

c) The total dissolved solids (TDS) concentration shall not exceed 1565mg/l or an electrical conductivity (EC) of 1000 µS/cm, and

d) The characteristics of the trade waste must:

- Have a sodium concentration that does not exceed 200 mg/l or a total daily load of 100 kg/day,
- Have a Sodium Absorption Ratio (SAR) of 5 or less, and
- Have a chloride concentration that does not exceed 250 mg/l.

e) No fibrous material which in the opinion of the Corporation is likely to cause obstructions in the sewer or drain shall be present.

3. Oils and Greases

a) There shall be no free or floating layer;

b) Oil and Grease shall not exceed a maximum of 100 mg/l.

4. Radioactivity

No radioactive waste shall be discharged to sewer.

Chemical Characteristics

5. pH Value

The pH value shall be within the range of 6.0 to 9.0.

6. Organic Strength

a) The total 5 – day Biochemical Oxygen Demand (BOD_5)concentration shall not exceed 500 mg/l.

b) The soluble component of 5 –day Biochemical Oxygen Demand (BOD_5) concentration shall not exceed 250 mg/l

c) The Chemical Oxygen Demand (COD) concentration shall not exceed 1500 mg/l.

7. Nitrogen

The concentration of:

a) Total Nitrogen shall not exceed 150 mg/l.

b) Ammonia, plus ammoniacal ion (expressed as N) shall not exceed 50 mg/l.

8. Metals

The maximum allowable load and concentration of metals shall be as stated in Table 1.

Element	**Maximum Allowable Load in grams per day (g/day)**	**Maximum Allowable Concentration in milligrams per litre (mg/l)**
Aluminium	2500	100
Beryllium	100	2
Boron as B	100	100
Cadmium	10	1
Chromium (Total)	2500	5
Cobalt	50	5
Copper	1000	2
Iron	10000	100
Lead	50	1
Manganese	100	4
Mercury	0.5	0.005
Molybdenum	250	2
Selenium	250	5
Silver	10	1
Nickel	10	1
Tin	7500	5
Zinc	7500	5
Total Heavy Metals (not including Iron)	7500	15

Table 1 Maximum Allowable Load and Concentration of Metals

9. Corrosive and Toxic Substances

The maximum allowable concentrations of corrosive and toxic substances shall be as stated in Table 2.

Element	Maximum Allowable Concentration in milligrams per litre (mg/l)
Arsenic	1
Cyanide as CN	5
Fluoride	10
Formaldehyde (expressed as HCOH)	50
Phenol & chemical derivatives of Phenol (as Phenol)	5
Phosphorus as P	12
Total Oxidised Sulphur	200
Sulphide as S	1

Table 2 Maximum Allowable Concentration of Corrosive and Toxic Substances

No waste which the Corporation deems may be toxic to;

- any person,
- sewage treatment process of the Corporation,
- 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 without the specific approval of the Corporation.

10. Organic Compounds

The maximum allowable concentrations of organic compounds shall be as stated in Table 3.

Parameter	Maximum Allowable Concentration in milligrams per litre (mg/l)
Total Petroleum Hydrocarbons (C6-C9)	1
Total Petroleum Hydrocarbons >C9	30
Pesticides	Not Permitted
Halogenated Aliphatic Hydrocarbons	5
Polynuclear Aromatic Hydrocarbons	Not Permitted
Polychlorinated biphenyls (PCB's)	Not Permitted
Explosive Substances	Not Permitted
Ethylene Glycol	1000
Storm Water and uncontaminated run-off	Not Permitted

Table 3 Maximum Allowable Concentration of Organic Compounds

11. Head Space Air

The Occupier must not discharge trade waste to a sewer, which at the nearest point of the sewer accessible by humans from the point of discharge, in any respect fails to comply with every relevant Work Safe Australia Exposure Standard relating to short term exposure levels.

12. Other Substances

The trade waste customer may discharge trade waste containing any substance not otherwise mentioned in this Agreement in a concentration no greater than 1 µg/l.