

## APPENDIX 2

### SEWER ADMISSION LIMITS

The upper limits for the quality of trade waste discharged to the sewer for all categories are set out below. These admission limits shall apply immediately. They are subject to periodic review.

#### Schedule I . GENERAL LIMITS

Parameter	Concentration, mg/L except *
Temperature *	< 38°C
pH *	6 - 11
Biochemical Oxygen Demand (BOD <sub>5</sub> ) +#	600 mg/l
Chemical Oxygen Demand (COD) +#	1200 mg/l
Total Organic Carbon (TOC) +#	1200 mg/l
Suspended Solids +#	600 mg/l
Total dissolved solids (TDS) +#	4000 mg/l
Total oil/grease (freon extractable)	200
Gross solids *	non faecal gross solids shall have a maximum linear dimension of less than 20mm and a quiescent settling rate of less than 3m/hr.
Colour *	limited such as not to give any discernible colour in treatment works discharge
Odour *	not detectable in 1% dilution or causing an odour problem in Water & Waste's sewerage system
Chlorine (as Cl <sub>2</sub> )	10
Sulphate ( as SO <sub>4</sub> <sup>-</sup> ) #	2000
Sulphite ( as SO <sub>2</sub> )	100
Surfactants - Anionic (MBAS)	500
Aluminium (as Al) #	100
Iron (as Fe) #	100
Ammonia plus ammonium ion (as N) #	100
Total Kjeldahl Nitrogen (as N) #	150
Total Phosphorus (as P) #	50
Manganese (as Mn)	100

+ The total mass load and the capacity of the sewerage system to accept the load shall be considered for each application.

# Water & Waste may in some circumstances accept waste containing higher concentrations of these substances. Additional charges for treatment (section 7.1.2 ) will apply.

#### Schedule II PROHIBITED DISCHARGES

- Prohibited substances as defined in Schedule 1 of the Water Act 2000
- Flammable/explosive substances.
- Radioactive substances except as allowed for under the *Radiation Safety Act 1999 and the Radiation Safety Regulation 1999*.
- Pathological and infectious waste and Cytotoxic waste except as allowed for under the *National Guidelines for Waste Management in the Health Industry*, National Health and Medical Research Council, 1999.
- Genetically modified (engineered) organisms.
- Rainwater and stormwater and uncontaminated water.

### Schedule III SPECIFIC LIMITS - INORGANIC

Parameter	Concentration, mg/L
Boron (B)	100
Bromine (Br <sub>2</sub> )	10
Fluoride (F <sup>-</sup> )	30
Cyanide (CN <sup>-</sup> )	5
Sulphide (S <sup>2-</sup> )	5

### Schedule IV SPECIFIC LIMITS - METALS

Parameter	Maximum Concentration mg/L	Lower Daily Mass Load g/day
Arsenic (As)	5	15
Cadmium (Cd)	2	6
Chromium (Cr)		
Total	20	75*
Hexavalent	10	
Cobalt (Co)	10	30
Copper (Cu)	10	75
Lead (Pb)	10	30
Mercury (Hg)	0.05	0.15
Nickel (Ni)	10	30
Selenium (Se)	5	15
Silver (Ag)	5	15
Tin (Sn)	10	30
Zinc (Zn)	10	75

The concentration values apply to discharges having a daily mass load between the Lower Daily Mass Load (LDML) and the Upper Daily Mass Load (UDML). For small discharges with a daily mass load below the LDML, no concentration limits apply. Dischargers who exceed Water & Waste's UDML limits will be required to take measures to meet the UDML. This may involve treating to a lower concentration than indicated above.

\* For discharges below the Lower Daily Mass Load, hexavalent Cr must be reduced to trivalent Cr.

## Schedule V. SPECIFIC LIMITS - ORGANIC

Water & Waste may request specific demonstrable evidence based on degradability and toxicity concerning substances listed below.

Parameter	Maximum Concentration, mg/L
Formaldehyde (HCHO)	50
Phenolic compounds (as Phenol)	100
Pentachlorophenol	5
Petroleum hydrocarbons	30
Halogenated Aliphatic hydrocarbons	5
Halogenated Aromatic Hydrocarbons (HAHs)	0.002
Polychlorinated biphenyls (PCBs)	0.002
Polybrominated biphenyls (PBBs)	0.002
Polynuclear Aromatic Hydrocarbons (PAHs)	5
Pesticides: General(insecticides /herbicides/fungicides)**	1.0
Pesticides: Organophosphates	0.1
Azinphos-methyl	
Azinphos-ethyl	
Coumaphos	
Demeton	
Dichlorvos	
Dimethoate	
Disulfoton	
Fenitrothion	
Fenthion	
Malathion	
Methamidophos	
Mevinphos	
Omethoate	
Oxydemeton-methyl	
Parathion	
Triazophos	
Trichlorfon	
Pesticides- Organochlorines	
Aldrin	0.001
Chlordane	0.006
DDT	0.003
Dieldrin	0.001
Heptachlor	0.003
Lindane	0.100

\*\* This category covers all pesticides other than those specifically listed under organophosphate and organochlorine pesticides.

**Schedule VI.** Any substance not listed in the above tables is a prohibited discharge and may not be discharged without prior approval of Water & Waste. Water & Waste may request specific demonstrable evidence based on degradability and toxicity for any substance when assessing acceptance to sewer.