

## TRADE EFFLUENT STANDARDS

(Extracted from the Jamaican National Trade Effluent Standards 1995)

<b>PARAMETER</b>	<b>STANDARD LIMIT</b>
Ammonia /Ammonium	1.0 mg/l
Barium	5.0 mg/l
Beryllium	0.5 mg/l
Boron	5.0 mg/l
Calcium	No Standard
Chloride	300 mg/l
Colour	100 TCU
Detergent	15 mg/l or <0.015 kg/ 1000 kg product
Fluoride	3.0 mg/l
Iron	3.0 mg/l
Magnesium	No standard
Manganese	1.0 mg/l
Nitrate (as Nitrate and Nitrite)	10 mg/l
Oil and grease	10 mg/l or <0.01kg/ 1000 kg product
pH	6.5 – 8.5
Phenols	0.1 mg/l
Phosphate	5.0 mg/l
Sodium	100 mg/l
Sulphate	250 mg/l

Sulphide	0.2 mg/l
TDS	1000 mg/l
Temperature	2 °C +/- average ambient temperature
TOC	100 mg/l
TSS	All times <150 mg/l Monthly average 50 mg/l

**Heavy Metals**

Arsenic	0.5 mg/l
Cadmium	0.1 mg/l
Chromium	1.0 mg/l
Copper	0.1 mg/l
Cyanide (Free HCN)	0.1 mg/l
(Total CN)	0.2 mg/l
Lead	0.1 mg/l
Mercury	0.02 mg/l
Nickel	1.0 mg/l
Selenium	0.5 mg/l
Silver	0.1 mg/l
Tin	No standard
Zinc	1.5 mg/l
Total Heavy Metals	2.0 mg/l

### **STREAM LOADING**

BOD <sub>5</sub>	< 30 mg/l
COD	< 0.1kg/ 1000kg product or < 100 mg/l
DO	> 4 mg/l

### **BACTERIOLOGY**

Total Coliform	< 500 MPN/ 100ml
Feacal Coliform	<100 MPN/ 100ml

#### **ACRONYMS FOR PARAMETERS USED IN STANDARDS**

BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
DO	Dissolve Oxygen
MPN	Most Probable Number
TCU	Total Colour Unit
TDS	Total Dissolved Solids
TOC	Total Organic Carbon
TSS	Total Suspended Solids

#### **FURTHER CLARIFICATION**

Nitrates	Refers to nitrogen in nitrates and nitrites
Phosphates	Refers to phosphorous in phosphates
pH	Measures acidity or alkalinity
Residual Chlorine	Where natural treatment systems are designed to reduce coliform levels without the use of chlorine then the residual chlorine criteria would not apply