

METHOD STATEMENT

Determinand:

Total Solids

Matrix:

Sample Type: Final effluents, trade discharges, crude sewage and other related waste waters.

Principle of Method:

The total solids content is determined gravimetrically by drying at 105°C to constant weight.

Interferences:

The presence of substances which are volatile at temperatures below 105°C or which decompose at temperatures below 105°C to form volatile compounds will give falsely low results for the total solids determination.

Performance of Method:

Range of Application:

100mg/l upwards

Normal Reporting Limit: - 100 mg/l

Limit of Detection:

100 mg/l

Recoveries of Compounds and Uncertainty of measurement:

Sample type	Mean sample result (µg/l)	Bias (%)	Rsd (%)	Spike recovery (%)	% Uncertainty
Low Standard	253.5	1.4	9.76	-	20.91
High Standard	992.5	-0.75	2.17	-	5.09
Final	513.4	-	5.52	100.3	11.3
Trade	604.0	-	3.11	97.7	8.5
Crude	1620.8	-	5.68	104.7	16.0

References:

The Conditionability, Filterability, Settleability and Solids Content of Sludges 1984. (A compendium of Methods and Tests) HMSO. ISBN: 011 7517879. Methods for the Examination of Waters and Associated Materials.

