1. Wastewater constituents and evaluation

Definitions for solids found in wastewater^a

| Test ^b | Description |
|--|---|
| Total solids (TS) | The residue remaining after a wastewater sample has been evaporated and dried at a specified temperature (103 to 105°C) |
| Total volatile solids (TVS) | Those solids that can be volatilized and burned off when the TS are ignited (500 \pm 50°C) |
| Total fixed solids (TFS) | The residue that remains after TS are ignited (500 ± 50°C) |
| Total suspended solids (TSS) | Portion of the TS retained on a filter (see Fig. 2–3) with a specified pore size, measured after being dried at a specified temperature (105°C). The filter used most commonly for the determination of TSS is the Whatman glass fiber filter, which has a nominal pore size of about 1.58 μm |
| Volatile suspended solids (VSS) | Those solids that can be volatilized and burned off when the TSS are ignited (500 \pm 50°C) |
| Fixed suspended solids (FSS) | The residue that remains after TSS are ignited (500 ± 50°C) |
| Total dissolved solids (TDS) (TS – TSS) | Those soilds that pass through the filter, and are then evaporated and dried at specified temperature. It should be noted that what is measured as TDS is comprised of colloidal and dissolved solids. Colloids are typically in the size range from 0.001 to 1 μ m. |
| Total volatile dissolved solids (VDS) | Those solids that can be volatilized and burned off when the TDS are ignited (500 \pm 50°C) |
| Fixed dissolved solids (FDS) | The residue that remains after TDS are ignited (500 ± 50°C) |
| Settleable solids | Suspended solids, expressed as milliliters per liter, that will settle out of suspension within a specified period of time (see Fig. 2–4) |