



Method Summary

Determination of Dust

Scope and Range

This method is applicable to dust collected by Berghoff or Stockholm method or by directional collectors and determined gravimetrically.

References

none

Principle

Analysis:

A collector is set up and left in position for a number of days. The Bergohoff method collects directly into the collection pot, the Stockholm method uses a "Frisbee" collector and directional collectors are sited with a vertical letter box shaped opening. When the collectors have been in position for the required number of days the collection pots are sealed or the "Frisbee" is washed and the collected dust washed in to a bottle. When the sample arrives at the lab the dust is washed out of the containers and filtered through a pre-weighed GF/C filter paper. The filter paper is dried in an oven at 105°C and then re-weighed. The suspended dust content of the sample is calculated from the difference in the two weights. If Inorganic and Organic dust are required then the paper is ashed in a furnace at 500°C and the portion lost is determined as organic dust.

Days are classed as a period of 24 hours; it is assumed that collectors are put out and brought in at the same time of day, unless customers clearly indicate times as well as dates.

e.g. from 1st June to 2nd June = 1 day

Interferences

None known.