

## ANNEX IV

MEASUREMENTS AT RURAL BACKGROUND  
LOCATIONS IRRESPECTIVE OF CONCENTRATION

## A. Objectives

The main objectives of such measurements are to ensure that adequate information is made available on levels in the background. This information is essential to judge the enhanced levels in more polluted areas (such as urban background, industry related locations, traffic related locations), assess the possible contribution from long-range transport of air pollutants, support source apportionment analysis and for the understanding of specific pollutants such as particulate matter. It is also essential for the increased use of modelling also in urban areas.

## B. Substances

Measurement of PM<sub>2,5</sub> must include at least the total mass concentration and concentrations of appropriate compounds to characterise its chemical composition. At least the list of chemical species given below shall be included.

SO <sub>4</sub> <sup>2-</sup>	Na <sup>+</sup>	NH <sub>4</sub> <sup>+</sup>	Ca <sup>2+</sup>	elemental carbon (EC)
NO <sub>3</sub> <sup>-</sup>	K <sup>+</sup>	Cl <sup>-</sup>	Mg <sup>2+</sup>	organic carbon (OC)

## C. Siting

Measurements should be taken in particular in rural background areas in accordance with parts A, B and C of Annex III.