METHOD 5T

DETERMINATION OF PARTICULATE EMISSIONS FROM STATIONARY SOURCES- TOTAL DRY AND WET CATCH METHOD

This amends Method 5 of this text by adding provisions for the collection and analysis of particulate matter not generally collected by Method 5, and is to be used where required for a particular source or source category.

Method 5 of this text shall be used, with the inclusion of the following:

(1) In 3.3 Analysis, add:

3.3.3 Water, deionized, distilled
3.3.4 Chloroform, reagent grade
3.3.5 Ethyl Ether, reagent grade

(2) In 4.2 Sample Recovery, add:

Container No. 4 - Impinger Water. The impinger water will be stored, sealed and labeled for subsequent analysis after the determination of volume for moisture calculations has been made. (See Note, Section 2.1.7).

Container No. 5 - Thoroughly rinse all sample exposed surfaces between the filter and fourth impinger with acetone, place washings in this container, and seal.

(3) In 4.3 Analysis, add:

Container No. 4 - Using a properly sized separatory funnel or equivalent device, extract organic particulate matter from the impinger solution with three 25 ml. portions of chloroform. Complete the extraction with three 25 ml portions of ethyl ether. Combine the ether and chloroform extracts, transfer to a tared beaker and evaporate to dryness at ambient temperature and pressure. Desiccate for 24 hours and weigh to a constant weight. Report the results to the nearest 0.1 mg.

Along with the contents of Container No. 5, transfer the remaining water which was separated from the organic portion to a tared beaker and analyze in the manner described for Container No. 2.

(4) In 6. Calculations, add:

m_n = Total amount of particulate matter collected, mg. (Wet and Dry Catch).