

EPA METHOD FOR TOTAL SUSPENDED SOLIDS (TSS)**FORMULA SECTION****II TOTAL SUSPENDED SOLIDS (cont.)**

- 11) Slowly release the vacuum from the filtering systems and gently remove the filter disc from the holder. Place the disc on a watch glass. Inspect the filtrate (filtered water in flask) to ensure that proper trapping of solids was accomplished on the disc.
- 12) Again place the watch glass and filter in a drying oven at 103cel for 1 hour.
- 13) Remove the watch glass from the oven, and carefully place in a desiccator. Allow to cool to room temperature.
- 14) Carefully remove the disc from the desiccator and weigh to the nearest 0.1 mg using an analytical balance.
Note: Take extreme care when removing the lid of the desiccator to not disturb the dried suspended matter on the disc. Remove the watch glass and disc from the desiccator as a unit and place beside the analytical balance. Use tweezers to transfer the disc to and from the weighing pan of the balance.

CALCULATIONS:

$$\text{mg/L Total Solids} = (A - B) / \text{Sample Volume in Liters}$$

Where

A = Weight (mg) of disc with residue

B = Weight (mg) of disc

Example:

$$\begin{aligned} A &= 95.5 \text{ mg} \\ B &= 81.5 \text{ mg} \\ (95.5 - 81.5) / 0.1 \text{ Liters} &= 140 \text{ mg/L Suspended Solids} \end{aligned}$$

NOTE: If time is an issue to conduct Suspended Solids Analysis, it is recommended to purchase a HACH Model DR/890 Colorimeter that measures up to 1000 mg/L. But the DR/890 is not EPA approved.

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