

QUALITY WORK INSTRUCTIONS (QWI) SULFUR ANALYSIS PROCEDURE TOTAL SOLIDS

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1.0 EQUIPMENT NEEDED

Microwave Oven
Plastic weighing dish
Desiccator

2.0 PROCEDURE

- (1) Weigh the plastic weighing dish alone.
- (2) Weigh accurately a 10-gram sulfur sample into the plastic weighing dish. Record this total weight before microwaving.
- (3) Place in microwave oven for 3 minutes at a medium setting.
- (4) Remove and cool in desiccator.
- (5) Weigh to find total weight after drying, and use the formula below to calculate % Total Solids.

$$\text{Total Solids \%} = 100 \% - \frac{(\text{Total weight before drying} - \text{Total weight after drying}) \times 100}{10\text{-gram original sample weight}}$$