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RJB

ANALYTE: TOTAL SUSPENDED SOLIDS DRIED AT 103-105 DEG C.

DATE PREPARED: 1-16-94  
DATE UPDATED: 9-22-97, 4-15-99

MATRIX: WATER

REFERENCE: STANDARD METHODS 19TH EDITION 2450 D.

EQUIPMENT: GOOCH CRUCIBLES  
DESSICATOR  
DRYING OVEN FOR OPERATION AT 103-105 DEG C.  
WIDE MOUTH 25 ML PIPET  
GLASS FIBER FILTERS  
FILTRATION APPARATUS

REAGENTS: NONE

SPECIAL PRECAUTIONS: DESSICATOR MUST CONTAIN DRY DESSICANT.  
REHEAT AND REPLACE DESSICANT WHEN BLUE COLOR BEGINS TO  
TURN VIOLET.

PROCEDURE:

1. Heat clean crucibles to 103-105 deg C. for minimum of one hour.
2. Cool crucibles in dessicator 15 minutes and weigh.
3. Weigh crucible immediately before use.
4. Assemble filtration apparatus and begin suction. Wet filter with a small amount of DI H2O to set it in place.
5. Pipet a well mixed sample into cruciblethe preweighed dish.
5. Evaporate on a steam bath or in the drying oven.
6. Dry evaporated sample at 103-105 deg C. for at least one hour.
7. Cool in dessicator 15 minutes and reweigh

ANALYTE: TOTAL SOLIDS DRIED AT 103-105 DEG C. (continued)

8. Repeat cycle of drying, cooling, desiccating and reweighing until weight change is less than 4% of previous weight or 0.5 mg, whichever is less.
9. Graph differences of duplicates on range chart.

METHOD: STANDARD METHOD 1970 EDITION 2430 D.

CALCULATION:  $MG/L \text{ TOTAL SOLIDS} = (A-B)(1000)/ML \text{ SAMPLE}$

A = WEIGHT OF DRIED RESIDUE AND DISH, MG  
B = WEIGHT OF DISH, MG

REPORTED DL = 5 MG/L

MDL = DEPENDENT ON SAMPLE SIZE, <5 MG/L FOR 100 ML SAMPLE

QUALITY CONTROL:

DUPLICATE ANALYSIS WITH EVERY 10 SAMPLES OR EVERY SAMPLE BATCH  
BLANK WITH EVERY BATCH  
OUTSIDE REFERENCE WITH EVERY SAMPLE BATCH

SAMPLING INFORMATION

CONTAINER: GLASS OR PLASTIC  
PRESERVATIVE: COOL 4 DEG C.  
VOLUME: 200 ML MINIMUM  
HOLDING TIME: 28 DAYS

1. Pipet 200 ml sample into pre-weighed glass dish.

2. Evaporate in a steam bath or in the drying oven.