

12/10/12

DEPARTMENT OF CIVIL ENGINEERING
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI – 620 015.
CE704 - Environmental Quality Measurements Laboratory
Experiment 11 (a): Determination of Total Solids

AIM

To determine the total solids present in the given sample.

PRINCIPLE

Total solids are determined as the residue left after evaporation and drying of the unfiltered sample.

APPARATUS REQUIRED

1. Evaporating dishes
2. Water bath / Oven
3. Desiccators
4. Weighing balance

PROCEDURE

1. Wash & wipe the evaporating dish (Porcelain dish) and dry it in a hot air oven for dryness.
2. Measure the initial weights of dishes by using electronic balance (W_1).
3. Take 10 ml of *unfiltered sample* in a china dish and evaporate in a water bath / oven at 103°C to 105°C .
4. Cool the container to dryness in a dessicator and weigh the dishes again.
5. Note the increase in weight (W_2).

CALCULATION

Initial weight of the container W_1
 Final weight of the container W_2
 Weight of residue

$$\begin{aligned}
 & 28430.2 \text{ mg} \\
 & = \dots\dots\dots \text{g} \\
 & = \dots\dots\dots \text{g} \quad 28579.5 \text{ mg} \\
 & = W_2 - W_1 \text{ g} = 1493 \text{ mg} = 0.1493 \text{ g}
 \end{aligned}$$

$$\begin{aligned}
 \text{Amount of total solids present in the sample} &= \frac{(W_2 - W_1) \times 1000}{\text{Volume of sample taken (mL)}} \times 1000 \\
 &= \dots\dots\dots \text{mg/lit} \quad \frac{0.1493 \times 1000 \times 1000}{10} = \\
 & \quad \underline{14930}
 \end{aligned}$$

APPLICATION OF TOTAL SOLIDS DATA IN ENVIRONMENTAL ENGINEERING PRACTICE

1. Total solids determination is used to assess the suitability of potential supply of water for various uses. In cases, in which waster softening is needed, the type of softening procedure used may be dictated by the total solid content.

Environment Civil Engineering Lab Manual

Jiyuan Zhang



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Lab Manual for Environmental Engineering Baranitharan B, 2016-08-12 This manual introduces the application of basic chemistry and chemical calculations to measure physical chemical and bacteriological parameters like turbidity and colour dissolved oxygen hardness pH alkalinity organic content Sulphates Fluorides Iron Total Settle able solids chloride Suspended and Dissolved Solids Ammonical Nitrogen Bacteriological Analysis chemical and biochemical oxygen demand of water and wastewater Laboratory methods and interpretation of results with regard to environmental engineering applications such as design and operation of water and wastewater treatment processes and to the control of the quality of natural waters are also explored As a result of these tests various remedies can be suggested to reduce the environmental pollution The purpose of this laboratory manual is to make the people aware of the dangerous effects of environmental pollution

Environmental and Hydraulic Engineering Laboratory Manual Gang Chen, Simeng Youneng, 2017-08 This laboratory manual is comprised of 14 laboratory experiments covering topics of water quality water treatment groundwater hydrology liquid static force pipe flow and open channel flow These experiments are organized with a very logical flow to cover the related topics of environmental and hydraulics engineering within university level courses This state of the art manual is divided into two sections environmental engineering experiments and hydraulic engineering experiments with seven experiments for each section It provides the basic hands on training for junior year civil and environmental engineering students In each experiment fundamental theories in the topic area are revisited and mathematic equations are presented to guide practical applications of these theories Tables figures graphs and schematic illustrations are incorporated into the context to give a better understanding of concept development experimental design and data collection and recording Each experiment ends with discussion topics and questions to help students better understand the content of the experiment This manual mainly serves as a textbook for an environmental and hydraulics engineering laboratory course Professionals and water wastewater treatment plant managers may also find this manual of value for their daily jobs In addition students in related areas can use this manual as a reference and the general public may use it to educate themselves on water quality testing and water flow

Environmental Engineering Laboratory Manual Robert L. Sanks, Montana State University (Bozeman, Mont.). Department of Civil Engineering and Engineering Mechanics, 1974 *Environmental Science and Engineering Laboratory Manual* Daniel Meeroff, 2013-04-16

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979 Technical Report, 1964

Laboratory Experiments in Trace Environmental Quantitative Analysis Paul R. Loconto, 2022-04-11 Laboratory Experiments in Trace Environmental Quantitative Analysis is a collection of student tested experiments that introduce important principles that underlie various laboratory techniques in the field of trace environmental organics and inorganics quantitative analysis It crosses the more traditional academic disciplines of environmental science and analytical

chemistry The text is organized to begin with minimally rigorous session experiments and increase in rigor as each session experiment unfolds Each experiment features learning objectives expected student outcomes and suggestions for further study Additional features include Students are introduced to the principles and laboratory practice of instrumental analysis determinative techniques that are clearly presented Students are carefully taken through various ways to prepare samples for trace quantitative analysis sample prep techniques Safety warnings are listed within each experiment Students are introduced to all three types of instrument calibration external internal and standard addition Instructors who are responsible for laboratory courses in analytical chemistry with potential application to environmental sample matrices will find this textbook of value Graduate programs in environmental science and engineering will also greatly benefit from the content

Environmental Handbook for Building and Civil Engineering Projects Roger Venables, 1994 This handbook contains information and practical guidance on the environmental issues likely to be encountered at each stage in the tendering and construction phases of a building or civil engineering project It is aimed at informing construction managers clients designers and other consultants engineers and scientists on their obligations and the opportunities open to them to improve the industry's environmental performance

Real-Time Environmental Monitoring Miguel F. Acevedo, 2023-10-19 This lab manual is a companion to the second edition of the textbook Real Time Environmental Monitoring Sensors and Systems Tested in pedagogical settings by the author for many years it includes applications with state of the art sensor technology and programs such as R Python Arduino PHP HTML and SQL It helps students and instructors in science and engineering better understand how to use and design a variety of sensors and how to build systems and databases when monitoring different environments such as soil water and air Examples of low cost and open access systems are included and can serve as the basis of learning tools for the concepts and techniques described in the textbook Furthermore the manual provides links to websites and scripts in R that allow learning how to analyze a variety of datasets available from repositories and databases maintained by many agencies and institutions The first hands on environmental monitoring lab manual written in tutorial style and classroom tested Includes 14 lab guides that parallel the theory developed in 14 chapters in the companion textbook Provides clear step by step protocols to understand basic and advanced theory through applicable exercises and problems Injects a practical implementation of the existing textbook A valuable guide for students and practitioners worldwide engaged in efforts to develop employ and maintain environmental monitors Intended for upper level undergraduate and graduate students taking courses in electrical engineering civil and environmental engineering mechanical engineering geosciences and environmental sciences as well as instructors who teach these courses Professionals working in fields such as environmental services and researchers and academics in engineering will also benefit from the range of topics included in this lab manual

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