

# Application Note for Dry Mass Analyzing of Sewage Sludge

**PCE** Instruments

PCE Americas Inc.  
711 Commerce Way  
Suite 8  
Jupiter  
FL-33458  
USA  
From outside US: +1  
Tel: (561) 320-9162  
Fax: (561) 320-9176  
info@pce-americas.com

PCE Instruments UK Ltd.

Ensign way  
Hampshire / Southampton  
United Kingdom, SO31 4RF  
From outside UK: +44  
Tel: (0) 2380 98703 0

www.pce-instruments.com/english  
www.pce-instruments.com

Fax: (0) 2380 98703 9  
info@pce-instruments.com



In wastewater / sewage treatment plants a sludge moisture content of biosolid mud 70 ... 80% is needed for optimal processing. This organic material is later on processed in or to other products. Three kind of sludges can be found in wastewater treatment plants:

1. Activated Sludge
2. Digested Sludges
3. Dewatered Sludges

In the past mainly drying ovens were used for Total Solid content determination. The drying process takes minimum 2 ... 3 hours. When using a modern moisture analyzer, the dry mass content is measured accurately in a time of only 10 ... 15 minutes.

The main costs in wastewater treatment is sludge concentration and disposal. The optimal dosage of dewatering chemicals and the optimization of mechanical treatment in sludge belt presses is also important. In all dewatering steps, the moisture analyzer is the quickest and most accurate measurement instrument in these steps to save chemicals and to adjust the dewatering presses properly.



The moisture analyzer saves time and lots of money.