



# Solids

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# Solids

Sludges and soils, which count with completely different physical-chemical characteristics, are included in this group of schemes.

A sludge, also called mud, is defined as a semisolid residue which is produced, decanted or settled during a water treatment. They are generated in the septic tank of houses, shopping malls, offices or industries, or produced in a water treatment plant, as well as control units of atmospheric emissions.

A soil is the uppermost layer of Earth's crust, which results of the decomposition of rocks by sudden temperature

changes and by the action of the water, wind and living beings. The chemical composition and physical structure of the soil at a certain location are determined by the type of geological material that originates, by the vegetal cover, by the time that weathering has acted, by topography and by artificial changes resulting from human activities.

The study of physical-chemical and microbiological parameters in this matrix allows evaluating its quality, conservation and proper management.

## Soils: Physical-chemical

[ref. 990017]



Round I
<p>Week 43 21<sup>st</sup> October 2024</p>
<ul style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Calcium</li> <li>Chromium</li> <li>Conductivity at 20°C</li> <li>Copper</li> <li>Iron</li> <li>Lead</li> <li>Magnesium</li> <li>Manganese</li> <li>Mercury</li> <li>Nickel</li> <li>pH</li> <li>Potassium</li> <li>Sodium</li> <li>Total phosphorus</li> <li>Zinc</li> </ul>

Metals will be determined as 'total metals'

## Sludges: Physical-chemical

[ref. 990013]



Round I	Round II
<p>Week 16 15<sup>th</sup> April 2024</p>	<p>Week 36 2<sup>nd</sup> September 2024</p>
<ul style="list-style-type: none"> <li>Arsenic</li> <li>Cadmium</li> <li>Chromium</li> <li>Copper</li> <li>Iron</li> <li>Kjeldahl nitrogen</li> <li>Lead</li> <li>Manganese</li> <li>Mercury</li> <li>Nickel</li> <li>pH</li> <li>Zinc</li> </ul>	<ul style="list-style-type: none"> <li>Aluminium</li> <li>Cadmium</li> <li>Chromium</li> <li>Conductivity at 20°C</li> <li>Copper</li> <li>Lead</li> <li>Mercury</li> <li>Nickel</li> <li>Total organic matter</li> <li>Total phosphorus</li> <li>Zinc</li> </ul>

Metals will be determined as 'total metals'

## Sludges: Microbiology

[ref. 990027]

Round I
<p>Week 25 17<sup>th</sup> June 2024</p>
<p><i>Clostridium perfringens</i> Enterococci <i>Escherichia coli</i> Faecal coliforms <i>Salmonella spp.</i> Total coliforms</p>

Round not included in the scope of accreditation

## Solids in Wastewater

[ref. 990016]



Round I	Round II
<p>Week 8 19<sup>th</sup> February 2024</p>	<p>Week 20 13<sup>th</sup> May 2024</p>
<p>Dissolved solids at 105°C* Fixed suspended solids* Fixed total solids* Settleable solids* Suspended solids Total solids at 105°C* Volatile suspended solids* Volatile total solids*</p>	<p>Dissolved solids at 105°C* Fixed suspended solids* Fixed total solids* Settleable solids* Suspended solids Total solids at 105°C* Volatile suspended solids* Volatile total solids*</p>

\* Parameter not included in the scope of accreditation