SODECON

NEWSLETTER
AUTUMN 2026

BEHIND THE SCENES OF OUR LABORATORY

Sodecon is growing rapidly, and our laboratory activities are growing with us. In this refreshed newsletter, we take you behind the scenes of our laboratory, where we develop solutions for lesser-known contaminants, determine optimal dosages, and compare filter media and reagents. This enables us to approach field applications with greater confidence!

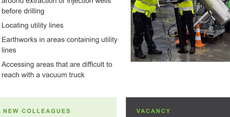
We also introduce our new compact vacuum excavator and new colleagues, and look ahead to our participation in Aquarama.

EVENT

MEET SODECON AT AQUARAMA

This year, Sodecon will have a stand at Aquarama, the meeting place for professionals working in water technology and water management. At the exhibition, we will present our mobile groundwater treatment units and share our latest insights and practical experience in treating PFAS and other contaminants.

Are you looking for a sustainable and cost-effective groundwater treatment solution? **Be sure to visit us and meet our specialists.**



NEW INVESTMENT

COMPACT VACUUM EXCAVATOR

Safety is central to our field operations. Sodecon has therefore recently invested in a compact vacuum excavator. The machine makes it possible to expose cables, pipes and other underground infrastructure without risk of damage. Its compact size also allows us to work in locations that are difficult to access with conventional excavators and vacuum trucks.

This investment strengthens our capabilities in:

- Safely clearing the first metres around extraction or injection wells before drilling
- Locating utility lines
- Earthworks in areas containing utility lines
- Accessing areas that are difficult to reach with a vacuum truck



NEW COLLEAGUES

A GROWING TEAM

Demand for specialised soil and water treatment solutions continues to grow. To provide even better support to our clients, Sodecon expanded its team again this year. We are delighted to welcome Julie, Bjorn and Jasper.

Their arrival strengthens our expertise in fieldwork, project delivery and technical support. And our growth does not stop there.

VACANCY

WE ARE STILL LOOKING FOR A WATER TREATMENT TECHNICIAN

Do you enjoy technical challenges, like working outdoors and want a job where no two days are the same? Then we are looking for you. As a technician, you will help start up, maintain and optimise groundwater treatment systems at challenging locations throughout Belgium.

View the vacancy →

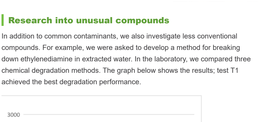
SPOTLIGHT

THE SODECON LABORATORY: WHERE SOLUTIONS TAKE SHAPE

Successful remediation often begins long before the first machine arrives on site. In our laboratory, we carry out feasibility and optimisation tests that allow us to reduce risks, predict performance and select the most suitable technology. Examples of laboratory tests we perform include:

In situ precipitation of heavy metals

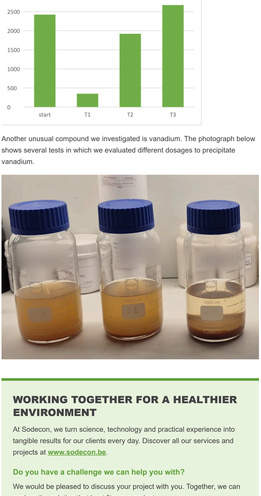
For various projects, we investigate how heavy metals can be immobilised directly in the subsurface. Laboratory testing allows us to determine the most efficient combination of reagents and dosages for the long-term immobilisation of metals.



pH adjustment of soil and groundwater

For various projects, we are asked to adjust the pH of the soil. This may serve several purposes: remediating excessively high or low pH levels, precipitating heavy metals, or creating optimal conditions for specific chemical or biological reactions.

Adjusting soil pH is not straightforward because of soil heterogeneity and the presence of buffering substances. In our laboratory, we therefore carry out titration tests that replicate site conditions as closely as possible, allowing us to derive the right information for the remediation works.



PFAS adsorption tests for water treatment

Sodecon currently operates approximately 25 mobile water treatment units, primarily used to remove PFAS. We observe major differences in the PFAS adsorption capacity of filter media. These differences are strongly related to the type and concentration of PFAS, as well as to the other dissolved substances in the water, known as the 'water matrix'. This makes PFAS adsorption capacity difficult to predict.

In certain cases, it is therefore advisable to test this capacity in advance. Faster, semi-quantitative batch tests or slower, more quantitative column tests can be used to compare different candidate adsorption media. Sodecon has already carried out several tests for PFAS and ultra-short-chain PFAS using different types of activated carbon, ion-exchange resins and surface-modified clay. These site-specific tests make it possible to identify the best solution for each site.

The graph below shows an example of column tests for ultra-short-chain PFAS. It demonstrates that TFA and PFPrA are not adsorbed effectively, whereas TFMS is.

Research into unusual compounds

In addition to common contaminants, we also investigate less conventional compounds. For example, we were asked to develop a method for breaking down ethylenediamine in extracted water. In the laboratory, we compared three chemical degradation methods. The graph below shows the results; test T1 achieved the best degradation performance.

Another unusual compound we investigated is vanadium. The photograph below shows several tests in which we evaluated different dosages to precipitate vanadium.

WORKING TOGETHER FOR A HEALTHIER ENVIRONMENT

At Sodecon, we turn science, technology and practical experience into tangible results for our clients every day. Discover all our services and projects at www.sodecon.be.

Do you have a challenge we can help you with?

We would be pleased to discuss your project with you. Together, we can explore the solution that best fits your project.

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