

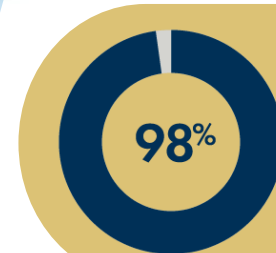
PFAS IN-FIELD SCREENING

Protecting Human and Environmental Health at the Point-of-need



PFAS – What are they?

Per and Polyfluoroalkyl Substances (PFAS) or ‘forever chemicals’ bio-accumulate in our environment and in the human body. These compounds are man-made and were developed in the 1940s. Their useful properties include being non-stick and water resistant. With the range of products using PFAS, most people are being exposed to them on a daily basis. Some of these PFAS accumulate in the human body over time and can cause adverse health issues.



PFAS found in the blood of more than 98% of Americans



Current Regulation

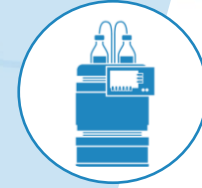
Government bodies around the world are increasing their commitment to address this issue. But with no current regulation in place, countries and even different states in the US implementing guidelines. These guidelines can range from 100ppt to 10ppt. Luckily the **Microsaic in-field test solution** offers screening of PFAS as low as 5ppt.

Need for Screening – WHY?

According to the Nordic council of Ministers, the cost of inaction regarding PFAS in the environment and for human health has been estimated at EUR 250Bn pa, in Europe alone. Although there are more countries implementing regulation for the monitoring of PFAS, there is still the need for real-time data of these compounds in wastewater treatment facilities. Remote analytical testing will help improve the monitoring and remediation of PFAS.

What is the best solution for screening and monitoring PFAS?

Large, centralised labs already use analytical tools in the detection of PFAS with several methodologies readily available. Moving these detection tools with the **same sensitivity and capability** to the **point of need** allows us to monitor whole ecosystems and map these issues by geography and time. With the addition of AI, we can then not only determine what has happened but can help predict what could happen. All of this can be done at a fraction of the cost, saving time, money and resources currently required.



Fully automated in-field PFAS analysis for a fraction of the cost!