

Leading the Way in Sustainability Innovation



Access innovative environmental testing and sustainability solutions and services.

To learn more about the Fisher Scientific Sustainability program, visit fishersci.com/sustainability or fishersci.ca/sustainability.

To learn more about testing methods and products, visit fishersci.com/environmental-testing or fishersci.ca/environmental-testing.

Stay on the cutting-edge of the environmental testing methods.

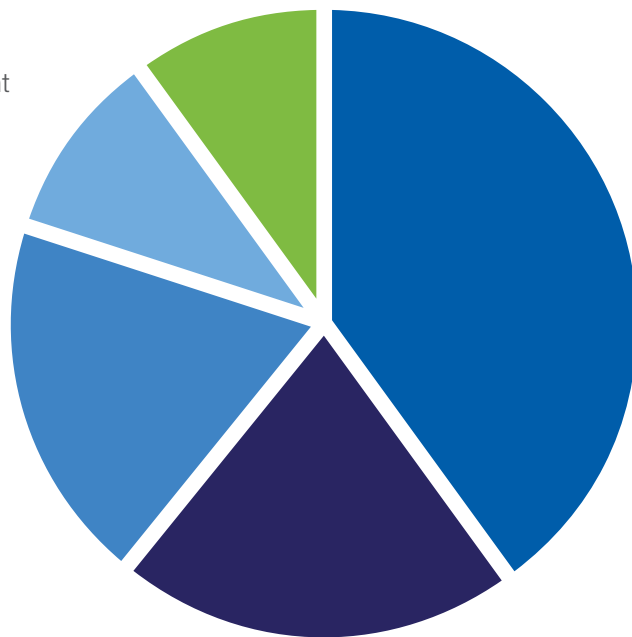
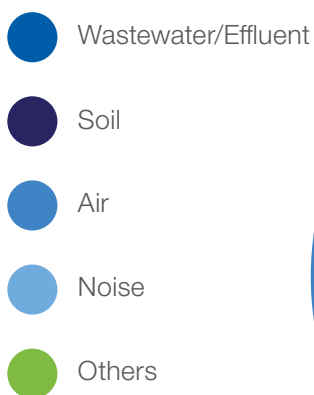
- Gas and air quality monitoring
- Water and wastewater analysis
- Soil analysis
- Construction and material testing
- Analytical testing

The U.S. environmental testing market size was estimated at USD **2.20 billion in 2023** and is projected to grow at a compound annual growth rate (CAGR) of **7.6%** from 2024 to 2030.

The rapid testing segment is at **67.46%** of market share and is anticipated to reach the highest CAGR from now until 2030.

Market Revenue Share by Sample (2023)

- Wastewater/effluent **31.24%**
- Air is expected to register the fastest CAGR during the forecast period



Source: <https://www.grandviewresearch.com/industry-analysis/us-environmental-testing-market-report>



The Importance of Innovation and Sustainability and Environmental Testing

In the face of escalating environmental challenges, innovation in sustainability and environmental testing has become important to global health. Advancements in environmental science and technologies in environmental engineering are driving significant progress.

Innovative Solutions Driving Change

- A **circular economy** is a resilient system that is good for business, people, and the environment. It depends on the development of new recycling technologies, materials that are easier to recycle, and materials that are biodegradable.
- Perovskite solar cells, floating wind turbines, and algae-based biofuels are gaining traction in the field of **renewable energy**. They are essential for transitioning to a low-carbon economy and reducing reliance on fossil fuels.
- New methods for **purifying and desalinating** water are becoming more efficient and cost-effective. These technologies include graphene-based filters, solar-powered desalination, and capacitive deionization.
- Emerging **carbon nanofluid technologies** and the precise construction of sub-nanochannels are providing new insights into membrane materials for drinking water and wastewater treatment.

Testing Methods

Rapid testing methods are cost-efficient and can identify particulates with greater accuracy.

- **Mass spectrometer**
- **Molecular spectroscopy**
- **Acidity/alkalinity**
- **PCR testing**

Conventional methods require less specialization in equipment and expertise, and often have established regulatory acceptance.

- **Culture plate methods**
- **Biological and chemical oxygen demand**
- **Dissolved oxygen determination**

Industry Resources

- [Exploring the Pathways to Sustainability: A Comprehensive Review](#)
- [The Latest Renewable Energy Technologies in 2024](#)
- [Recent Advances in Graphene-Based Nano-Membranes for Desalination](#)
- [Carbon-Based Membrane Materials and Applications in Water and Wastewater Treatment](#)
- [Graphene-Based Nanomaterial for Desalination of Water](#)

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