

Environmental Testing Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Abstracts

The Global Environmental Testing Market was valued at USD 10.7 billion in 2023 and is expected to grow at a CAGR of 7.8% from 2024 to 2032. This growth is primarily driven by the increasing enforcement of stringent environmental regulations focused on protecting public health and ecosystems. Governments worldwide are implementing policies to monitor air, water, and soil pollutants, with regulatory bodies such as the U.S. Environmental Protection Agency (EPA) and the European Environment Agency leading the charge. These regulations require industries, including manufacturing, mining, and agriculture, to conduct regular environmental assessments and pollutant monitoring, boosting the demand for advanced testing services. The rapid pace of industrialization and urbanization significantly contributes to the market expansion.

With rapid industrial growth, particularly in emerging economies, comes increased pollution and environmental degradation, including air, water, and soil contamination. Urbanization exacerbates this by contributing to waste generation and pollution, further emphasizing the need for rigorous environmental monitoring. Governments are tightening regulations to control pollution and protect public health, which is expected to drive further demand for comprehensive testing services across various sectors, including energy, construction, and manufacturing. The market is categorized based on sample type into wastewater, water, soil, and air.

In 2023, the water testing segment held the largest share, accounting for over 35% of the market, and is projected to surpass USD 7.5 billion by 2032. Water quality is a critical concern due to the rising pollution levels from industrial waste, agricultural runoff, and urbanization. Regular testing is essential to ensure access to safe drinking water and maintain sustainable water resources for agriculture and industry. Based on

technology, the market is segmented into chromatography, spectroscopy, molecular diagnostics, and others. Chromatography dominated the market in 2023, representing around 43% of the share due to its versatility in detecting a wide range of contaminants across air, water, and soil samples.

This technology is particularly efficient in detecting and measuring organic pollutants, such as volatile organic compounds (VOCs), pesticides, and hydrocarbons, commonly encountered in environmental testing. North America led the market in 2023 with over 36% of the global share, largely due to strict regulations enforced by the EPA and state agencies. The region is expected to surpass USD 7.5 billion by 2032. High demand for environmental testing services in sectors like agriculture, energy, and waste management, along with ongoing concerns about pollution and hazardous waste, is driving the adoption of advanced testing technologies such as chromatography and molecular diagnostics.

Contents

Report Content

CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research design
 - 1.1.1 Research approach
 - 1.1.2 Data collection methods
- 1.2 Base estimates and calculations
 - 1.2.1 Base year calculation
 - 1.2.2 Key trends for market estimates
- 1.3 Forecast model
- 1.4 Primary research & validation
 - 1.4.1 Primary sources
 - 1.4.2 Data mining sources
- 1.5 Market definitions

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2032

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
- 3.2 Supplier landscape
 - 3.2.1 Sample collection agencies
 - 3.2.2 Environmental testing laboratories
 - 3.2.3 Equipment and supplies manufacturers
 - 3.2.4 Data management and software providers
 - 3.2.5 Consulting firms
- 3.3 Profit margin analysis
- 3.4 Analysis of comparative pricing of different testing services
- 3.5 Technology & innovation landscape
- 3.6 Key news & initiatives
- 3.7 Regulatory landscape
- 3.8 Impact forces
 - 3.8.1 Growth drivers
 - 3.8.1.1 Increasingly strict regulations and standards for environmental protection and

public health

3.8.1.2 Rising awareness about climate change and its impact on the environment

3.8.1.3 Rapid industrialization and urbanization

3.8.1.4 Advancements in testing technologies

3.8.1.5 Increasing focus on sustainability and environmental responsibility

3.8.2 Industry pitfalls & challenges

3.8.2.1 High costs of testing and compliance

3.8.2.2 Lack of standardized protocols and methodologies

3.9 Growth potential analysis

3.10 Porter's analysis

3.11 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2023

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES & FORECAST, BY SAMPLE, 2021 - 2032 (\$BN)

5.1 Key trends

5.2 Waste water

5.3 Water

5.4 Soil

5.5 Air

CHAPTER 6 MARKET ESTIMATES & FORECAST, BY TECHNOLOGY, 2021 - 2032 (\$BN)

6.1 Key trends

6.2 Chromatography

6.3 Spectroscopy

6.4 Molecular diagnostics

6.5 Other technologies

CHAPTER 7 MARKET ESTIMATES & FORECAST, BY CONTAMINANT, 2021 - 2032 (\$BN)

- 7.1 Key trends
- 7.2 Microbial contamination
- 7.3 Organic compounds
- 7.4 Heavy metals
- 7.5 Residual chemicals and pesticides

CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE, 2021 - 2032 (\$BN)

- 8.1 Key trends
- 8.2 Agriculture and forestry
- 8.3 Construction and real estate
- 8.4 Government and regulatory bodies
- 8.5 Energy and mining

CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2032 (\$BN)

- 9.1 Key trends
- 9.2 North America
 - 9.2.1 U.S.
 - 9.2.2 Canada
- 9.3 Europe
 - 9.3.1 UK
 - 9.3.2 Germany
 - 9.3.3 France
 - 9.3.4 Spain
 - 9.3.5 Italy
 - 9.3.6 Russia
 - 9.3.7 Nordics
- 9.4 Asia Pacific
 - 9.4.1 China
 - 9.4.2 India
 - 9.4.3 Japan
 - 9.4.4 South Korea
 - 9.4.5 ANZ
 - 9.4.6 Southeast Asia
- 9.5 Latin America
 - 9.5.1 Brazil
 - 9.5.2 Mexico
 - 9.5.3 Argentina

9.6 MEA

9.6.1 UAE

9.6.2 South Africa

9.6.3 Saudi Arabia

CHAPTER 10 COMPANY PROFILES

10.1 Agilent Technologies

10.2 Alex Stewart International

10.3 ALS Limited

10.4 AsureQuality

10.5 Bureau Veritas

10.6 Element Materials Technology

10.7 EMSL Analytical

10.8 Envirolab Group

10.9 Eurofins Scientific

10.10 F.B.A. Laboratories

10.11 Intertek Group

10.12 Merck KGaA

10.13 Merieux NutriSciences

10.14 Microbac Laboratories

10.15 Pace Analytical Services

10.16 R J Hill Laboratories

10.17 SGS SA

10.18 Suburban Testing Labs

10.19 Thermo Fisher Scientific

10.20 TUV SUD

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