

# WATER ANALYSIS LABORATORY



Set Point Laboratories provides analytical services to clients through an extensive network of operations in Southern Africa. With a formidable reputation in the industry and our attentive, personal customer focus we set the bar for water analysis.

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LABORATORIES



# OVERVIEW



Set Point Laboratories, a division of WearCheck, is an ISO 17025 accredited analytical chemistry lab. Set Point Laboratories is a Level 3 B-BBEE value-adding supplier, resulting in 110% preferential procurement recognition. With laboratories in Cape Town and Johannesburg and partner labs throughout Southern Africa, we service clients nationally.

Our vision as an innovative, forward-thinking business is to lead through honesty, high principles and pride in every component of our partnership with clients. This is why our laboratories are operated by highly qualified and motivated staff, who deliver fully comprehensive and professional testing services. These include providing a wide variety of water tests.

We provide each client with a unique service to make their analysis efficient, reliable and cost-effective.



*"We help you be assured of the quality of your resources, increase customer confidence in your products, and stay ahead in your industry".*

*Set Point Laboratories provides analytical services to clients through an extensive network of operations in South Africa and Namibia. With a formidable reputation in the industry and our attentive, personal customer focus we set the bar for water analysis.*

# WATER ANALYSIS

Set Point Laboratories offers full suite water analysis. Analysis is conducted using various accredited techniques such as: Photometric, Electrometric, Colorimetric, Gravimetric, ICP-OES and ICP-MS and Enzyme Substrates. These techniques are used to obtain the best possible results in physicochemical and microbiological analysis.

Waste/effluent water  
Drinking water  
Bottled water  
Agricultural/irrigation water  
Water quality  
Surface and groundwater  
Cooling systems  
Corrosion control



## INDUSTRIES WE SERVE INCLUDE:

Mining and Exploration  
Environmental  
Industrial  
Energy  
Manufacturing Materials  
Food and Beverage  
Agriculture  
Hospitality  
Construction  
Health Care  
Recreation and Tourism  
Private



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# WATER QUALITY

Water quality describes the condition of water, including chemical, physical and biological characteristics, usually with respect to its suitability for drinking, irrigation, bathing, and effluent purposes.

Safe water should contain no chemical or radioactive substances, be free from disease-causing organisms and be stable in terms of corrosion or scaling.



## WHY WATER MONITORING IS IMPORTANT

- Ensuring mining, industrial and sewage effluent is compliant with environmental regulations and municipal by-laws
- Establishing drinking water safety, in compliance with The National Water Act, SANS241 parameters and WHO Guidelines
- Confirming bottled water complies with The National Water Act, SANS1724
- Ground and Surface water is uncontaminated and safe
- Irrigation water is safe and free from toxins or disease
- Pool and spa water is safe for skin contact
- Ensuring water quality is safe for handling and exposure to clients and staff
- Checking water is free from spotting elements at washing facilities
- Accurately determining water treatment type and its effectiveness
- Tracking and monitoring readings over time, identifying changes
- Ensuring water is non-corrosive and won't result in future, unforeseen maintenance
- Identifying any problems before they become long-term



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*"Even clear and odourless water can be contaminated with disease-causing organisms and possible chemical and metal toxins".*

# MINING

Set Point Laboratories offers wastewater, groundwater and surface water analysis in areas surrounding mining and exploration sites.

## Effluent/Wastewater

Ensuring water is compliant and safe for disposal is essential. Compliance with municipal by-laws and environmental safety standards allows for safe disposal of wastewater into streams, rivers etc.

## Ground and Surface Water

Water quality analysis allows for determination of water safety for use on equipment, drinking and washing.



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# INDUSTRY & MANUFACTURING

Set Point Laboratories offers full-suite water analysis for industrial and manufacturing clients.

- Waste/effluent water analysis
- Cooling tower/systems water analysis
- Corrosion control
- Ground and surface water quality



Waste/effluent water analysis ensures compliance with municipal by-laws and environmental safety standards allows for safe disposal of effluent into streams, rivers etc.

For successful industry operation and reduced repair costs, it is important to monitor the various water systems of a manufacturing plant.

Cooling systems water should be monitored to ensure optimal functioning, identify corrosive and microbial determinands.

*These systems provide the perfect environment for bacterial growth.*

Water should be continually monitored for scaling and corrosive determinands. This enables early detection of potential equipment risks, reduces excessive repair costs and ensures optimal functioning of machinery.



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## FOOD AND BEVERAGE PRODUCTION

Water quality is essential in the production of food and beverage. The analysis is conducted in line with various local and international standards

SANS241 – drinking Water  
SANS1657 – bottled and processed Water  
WHO guidelines

## HOSPITALITY AND LIFESTYLE

Water quality needs to be regularly monitored. Ensuring water is free from harmful toxins and disease-causing organisms is essential to keeping clients safe and complying with quality regulations.

We provide regular water quality analysis for:

- Lifestyle centres and malls
- Retail and business parks
- Restaurants and fast food facilities
- Gym and fitness facilities
- Spas and recreational facilities

We offer analysis for:

- Drinking water
- Water quality
- Potability
- Pool water
- SANS241 – drinking water
- WHO guidelines



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## IRRIGATION AND AGRICULTURE

Safe and clean irrigation and agricultural water is essential to ensure leaching is not occurring, preventing disease and maintaining a healthy ecosystem in soil structure for plant growth and yield.

Set Point Laboratories offers ground and surface water analysis in-line with:

Global GAP requirements  
Irrigation standards  
WHO guidelines.



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## SANITIZER ANALYSIS

As a new and changed world emerges from international lockdown measures after the announced Global COVID-19 Pandemic by the World Health Organization, Set Point laboratories has changed as well.

In the aim to combat the COVID-19 pandemic we are all currently facing, we have introduced alcohol content testing at our facilities. We would like to provide our clients with quality sanitizer assurances in accordance with the 70% alcohol content recommended by The Department of Health and Sanitation South Africa and The World Health Organisation guidelines.



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