



**WATER AND WASTEWATER
CONSULTING SERVICES**

WWW.AHLWATER.CO.ZA



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About Us

Founded in December 2016, AHL Water (Pty) Ltd is a registered private company (2016/499899/07) with 100% black female ownership Level 1 BB-BEE. The company is headed by Ayesha Laher, a professional scientist with 18 years' experience in water and wastewater treatment. Backed by our experience, expertise and Integrity, We aim to provide holistic water services solutions to commercial, Government and Private clients throughout Southern Africa.

Company Vaues



- Integrity = We mean what we say and say what we mean.
- Excellence = We strive to get better, smarter and more innovative in what we are doing.

Vision



Sustainable management of water and wastewater systems to ensure a safe, reliable supply of water to all citizens of our country.

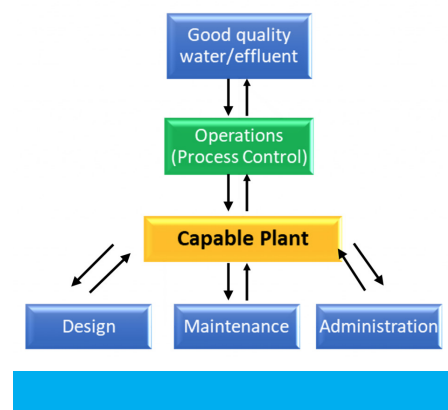
Why AHL Water



Holistic Approach

When a water treatment plant fails, the solution is usually associated infrastructure upgrades and installation of the latest technologies. However, in many cases the root cause of the failure is lack of asset maintenance and/or lack of operational skills. A more holistic approach is required to identify the root cause of the failure.

AHL Water adopts the Capable Plant Model of the American Water Works association which states that a 'Capable Plant' will only perform as required if all aspects of plant design, operation and management are supportive of the desired outcome. We therefore offer a holistic water services solutions focusing on design, operations, maintenance and management of water and wastewater Supply Systems to ensure sustainable operations.





Solution Based on Risk Management Principle

Risk management is a universal business concept based on the identification, evaluation, and prioritization of risks followed by coordinated and economical application of resources to minimize, monitor, and control the impact of the risk. The risk management process is a systematic method which allows for constant checks to validate efficacy of implemented actions and can be applied in many spheres of business to manage risks.

The World Health Organisation has adopted the risk management approach to water and wastewater management through the Water Safety Planning Concept which states that “the most effective means of consistently ensuring the safety of a drinking-water supply is through the use of a comprehensive risk assessment and risk management approach that encompasses all steps in water supply from catchment to consumer”.

This risk management approach is aligned with the legislative requirements outlined in the Blue, Green, and No Drop Certification pro-gram of the Department of Water and Sanitation and forms part of the National Drinking Water Quality standard SANS 241.

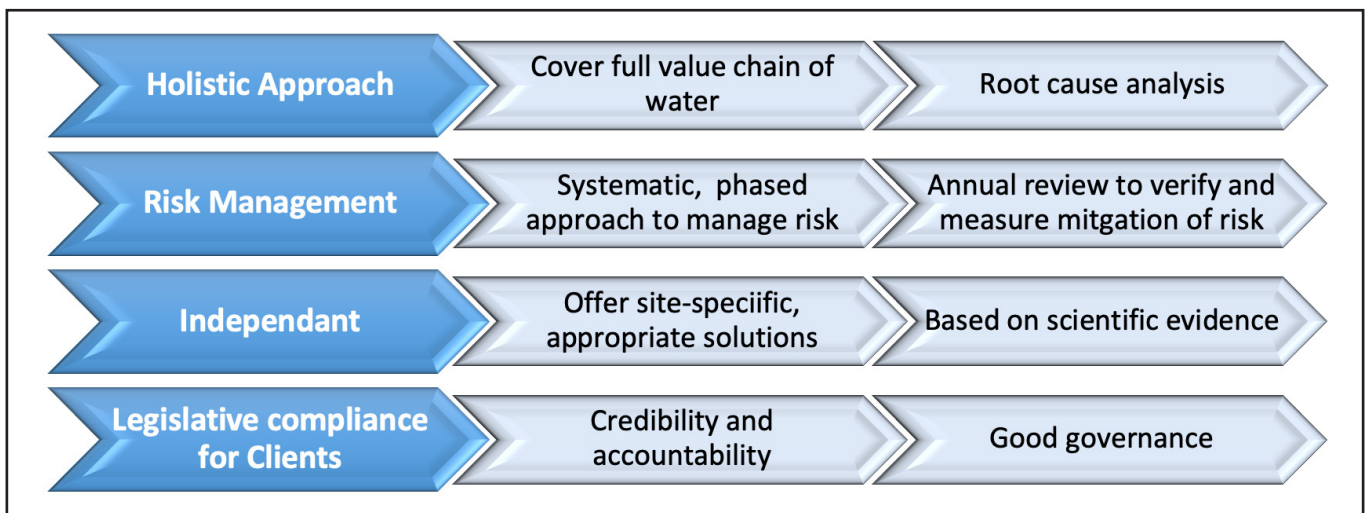
All our activities are based on risk management procedures to identify, evaluate, and mitigate all risks associated with the full value chain of water and wastewater leading to continuous risk reduction and legislative compliance.



Site-specific Unique Solutions

As we do not supply or endorse particular technology or products, our solutions are unbiased and appropriate; based on scientific evidence and the client's unique requirements (core business, operational model, budget) while incorporating local and international best practise principles.

Benefits of Our Approach





Ayesha Hamid Laher

Ayesha is a professionally registered environmental scientist in the water stream. She has 18 years experience in all aspects of water and wastewater treatment technologies, design, operation, maintenance, and management of water and wastewater Supply System.

Her participation in various policy and planning projects including the development of the Second National Water Resources Strategy has contributed to understanding of policy, legislation, water resource planning and institutional requirements for management of the entire water cycle.

As a Lead Inspector for the Blue, Green and No Drop Certifications programs of the Department of Water and Sanitation, she has sound knowledge of best practise principles for operation and management of water and wastewater treatment systems with emphasis on risk-based procedures embodied in the Water Safety planning concept, risk-based monitoring programs and Incident management.

She has developed leadership, management and financial skills in her position as Hub-Sector Lead of the Water Systems division of AECOM for two years before embarking on her own to head AHL Water.

Ayesha has gained entrepreneurship skills to manage her business by qualifying for and successfully completing the requirements for the one-year M Category of Raizcorp Comprehensive Enterprise Development Programme and receiving the Spirit of Raizcorp award for the 2018 program.

Ayesha is an active member of WISA, has contributed to several Water Research Publications, presented at numerous conferences and regularly publishes articles on water-related topics.

Ayesha has contributed to several WRC publications including the Wastewater Risk Abatement Planning guideline and presented papers on Water Safety plans, Process Audits and risk-based monitoring programs.

Professional Membership



**Water Institute of
Southern Africa NPC**





Scope of Services



Comprehensive Risk Assessment of Water and Wastewater Supply Systems

- Process audits
- Blue, Green and No Drop Audits and Improvement Plans:
- Water Safety Plans and Wastewater Risk Abatement Plans
- Incident Management Protocols



Operational Support for Water and Wastewater Systems

- O & M manuals and Maintenance schedules
- Asset management Strategies and Plans
- Review of Municipal Bylaws,
- Site-specific Training



Additional Services

- Energy efficiency audits of Wastewater Treatment Plants
- Water Quality Verification audits for commercial clients
- Evaluation of Treatment technologies & process design
- Ozone lab testing
- Scientific studies related to water



Containerised Water and Wastewater Plants

Supply of site-specific containerised water and wastewater plants for schools, hospitals, mines, farms, commercial properties.



Water Quality Testing Kits

ILab Water Testing Kits to verify safety of water.



Upgrade/Refurbishment of Water and Wastewater Supply System

Upgrade/Refurbishment of water and wastewater supply systems. Inception, concept & viability, design development, documentation and procurement.

Experience and Valuable Clients



OUR MISSION

To empower water services institutions with required skills, procedures and systems to effectively operate, maintain and manage water and wastewater treatment plants through adoption of risk-based management principles and legislative requirements.

01

Process audits of water and wastewater plants for municipalities:

Harry Gwala Local Municipality, Magalies Water, Tswelopele Local Municipality, JB Marks Local Municipality, Chris Hani District Municipality, Ngwathe Local Municipality, Lilongwe Water Board.

02

Legal compliance audits and design review:

Netcare Christian Barnard Desalination Plant, Netcare New Alberton Greywater Plant, Netcare Ferncrest Water Plant, Organica Water Reclamation Plant.

03

Water Safety Plans and Wastewater Risk Abatement Plans:

Bloem Water, JB Marks Local Municipality, Bitou Municipality, Harry Gwala Local Municipality, Lilongwe Water Board.

04

Blue Drop and Green Drop Audits for Department of Water and Sanitation:

Lead Inspector since inception of program in 2007, compiling 2021 and 2022 Blue Drop PAT report, compiling 2023 Green Drop Progress Report, training of 2023 Blue Drop Inspectors.

05

Other:

Water Quality evaluation of Netcare Facilities, Water Quality Investigation for Glencore Wonderkop, Energy due diligence studies and training, Water Safety Plans for Buildings.

Thank
You

Contact Us



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