Veolia Water Technologies Botswana
Water treatment you can trust
As part of Veolia Water Technologies, Veolia Botswana has been a leader in the water treatment industry in Botswana since 1991 and is a preferred supplier of end-to-end drinking, sewage and process water solutions in the country.

We’re delivering Veolia’s 300+ proprietary technologies and expertise gained over its 160 year-history right on the doorstep of the country’s municipal and industrial applications.

Our solutions include:

• Potable / drinking water supply
• Wastewater / sewage treatment
• Modular, containerised and full-scale plants
• Brackish water desalination
• Water re-use / zero liquid discharge
• Industrial process water treatment
• Mine water solutions
• Food & beverage water solutions

Resourcing the World: Veolia Water Technologies

For over 160 years, Veolia has helped cities and industries across the world manage, optimise and make the most of their water resources. Headquartered in Paris with operations in over 70 countries across Europe, America, Asia, the Middle East and Africa, Veolia provides innovative, efficient solutions for every municipal and industrial water treatment application.

100 million people supplied with water
3 303 wastewater treatment plants managed
63 million people connected to wastewater systems
4 245 water production plants managed
Our technologies cover the complete spectrum of water treatment requirements: from treating groundwater so that it is safe for human consumption, through to sludge treatment and handling.

**Municipal solutions for drinking water and wastewater**

**Potable Water Supply**

Using patented water purification technologies and solutions, Veolia Water Technologies Botswana supplies the highest-quality drinking water to communities at the scale they require. We design, construct, operate and maintain plants that are tailored to the community’s needs, the water demand, the source water availability and quality and budget.

**Water Reuse**

Water reuse is becoming more critical as we strive for greater sustainability and is something that will be commonplace in the future. Veolia Water Technologies Botswana can convert even the dirtiest wastewater to high-quality potable water that is 100% safe for drinking. We have the know-how to implement direct or indirect water reuse programmes as required by our customers.

**Domestic Wastewater Treatment**

Veolia has the technologies, expertise and experience to treat domestic wastewater and sewage to any required standard. These technologies include:

- **ACTIFLO®**: a high-rate clarifier, with a footprint one fiftieth of the area of conventional clarifiers
- **Multiflo™**: advanced clarification that combines chemical precipitation with sludge thickening
- **Membrane Bioreactors**: membrane separation with patented suspended growth bioreactors

Our solutions include aerobic and anaerobic bioprocesses and sludge treatment, as well as energy recovery through sludge digestion and incineration.

100% of wastewater can be recycled

Caring for our communities
Veolia Water Technologies Botswana has total treatment solutions for industry: from providing potable water for remote mines to treating wastewater for discharge or reuse as process water.

**Mine Water**

Mines need robust and reliable water treatment solutions that they can trust, so that they can focus on their core activities of mining and mineral processing. Our mine water treatment solutions are helping mining companies refine minerals, reduce waste, limit pollution and drive maximum profitability to their operation. We custom-build mine water treatment systems according to specific customer requirements, whether for diamond, nickel and copper mining, uranium, coal or any other minerals. With a complete range of technologies, we cover pre-treatment, leach liquor filtration, process mine water treatment, tailings pond management and acid mine drainage treatment.

**Food and Beverage**

Veolia understands the challenges of water supply and wastewater treatment in the food and beverage industry. We provide innovative solutions to meet the strictest purification specifications and discharge standards. Our portfolio includes the managing of water as a food and beverage ingredient, water for industrial use and the treatment of effluent, grease and sludge.

**Zero Liquid Discharge (ZLD)**

The scarcity of fresh water and the environmental impact of industry has led companies to pursue a reduction in water discharge, opting instead to reuse this resource as process water. When pursued to the limit, we can help industrial facilities achieve zero liquid discharge.

This doesn’t just improve the environment through the elimination of process water disposal, it can be used to create secondary revenue streams by using the remaining solid content for a range of products such as agricultural fertiliser.
Unique Veolia solutions for a unique environment

Modular Package Plants

Package plants are a containerised technology solution that can be tailored to any water treatment requirement. Ideally suited for a range of applications across southern Africa, they provide a compact, portable, plug-and-play option especially suited for smaller communities, temporary or remote locations.

Veolia has an impressive portfolio of engineered package plant designs that enable us to deliver customer-specific solutions with quick turnaround times. They are flexible, scalable and preassembled for easy transport and site installation.

Some of our plants are installed in very remote locations where a robust and reliable solution is paramount. Veolia Water Technologies Botswana has over 25 years of experience building drinking water and wastewater treatment plants for remote settlements, prospecting camps and remote schools and hospitals.

Trickling Filter Technology

Trickling filter technology removes most of the mechanical components of water treatment from the equation, leaving a cost-efficient, low-maintenance and low-energy solution for sewage treatment applications in remote locations. Upgrade sewage to discharge; reuse or even near-potable standards.

Brackish Water Desalination

Desalination of brackish water guarantees a fresh water supply in arid inland regions where such water is scarce. Our desalination product offering includes reverse osmosis technologies, enabling us to convert highly brackish, turbid and brine streams into a consistent source of fresh water supply.

Trickling filters can treat 500 persons’ domestic sewage with a single small package plant

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Veolia Water Technologies Botswana is a total water supplier capable of providing end-to-end and turnkey water treatment solutions, from design and engineering to installation, operation and maintenance.

**Chemicals (HYDREX™ range)**

We supply over 400 chemical formulations for all industrial and municipal water treatment requirements, from pre-treatment to sludge treatment and the complete spectrum of industrial process water treatment requirements. Leading standards compliance, including ISO, SABS / SANS, ANSI/UL, and SABS foodgrade-approved.

**Design & Build and Installation**

We design, construct and install large-scale turnkey projects that are custom-engineered to your water requirements. We conduct feasibility and pilot studies to develop an optimum process, which is then implemented by a proven team of process, mechanical and ECI engineers.

**Operation and Maintenance**

Leave it to the experts! Veolia Water Technologies Botswana helps companies and municipalities cut costs and reduce downtime by managing the O&M of water treatment plants. Tailored maintenance plans allow customers to focus on their core activities while we take care of the essential behind-the-scenes water services.
An established track record in Botswana:
Veolia Water Technologies Botswana has installed over 30 new water treatment plants to date, with a combined capacity of 2,298 m³/hr. In addition, we’ve completed more than a dozen plant refurbishments—a combined capacity of 448 m³/hr. Veolia Botswana has completed over 70 maintenance contracts over the years!

**Diamond Trading Company**
Veolia constructed an effluent disposal and a filtration plant for DTCB.

**Orapa Township**
A turnkey reverse osmosis plant commissioned in 2007. It supplies 572 m³/hr.

**Lecheng**
Running since 2011, this limestone water stabilisation plant treats 30 m³/hr.

**Letsholathebe Hospital**
We supplied a 180 m³/hr trickling filter sewage treatment plant.

**Malatswai**
This reverse osmosis plant provides 40 m³/hr of potable water to Malatswai village.

**Maun**
Veolia designed, supplied and commissioned a 300 m³/hr potable water plant.

**Mmadinare**
Veolia added three new treatment streams to Mmadinare village water treatment plant.

**Thebephatswa**
Design & construction, O&M of a 549 m³/hr lime softening plant for Thebephatswa, Molepolole & Thamaga villages.

**Zutshwa**
Veolia provides maintenance contracts for plants that they supply.
Resourcing the world