



WATERCARE MINING

Industrial Water Treatment Plants **OVERVIEW**

Where water comes at a premium, cost-effective solutions follow, thanks to Watercare Mining's industrial water treatment plants

Treating and reusing water in a process- or mining environment has a significant positive impact on a company, especially in areas where water reserves are dwindling and the cost of water comes at a premium. Watercare Mining's clients realize substantial savings in this environment, thanks to fit-for-purpose solutions which we have designed, constructed and operated for our clients since 2013.

Today, our skilled operational teams produce in excess of 35 megaliters per day of SANS 2015:241-compliant potable water for both domestic and industrial use.

As a total solutions provider, Watercare Mining aims to provide the best solution for each intended application:

- design of optimum treatment solution based on the incoming water quality
- system/process water usage and key requirements for end-users
- long-term water requirement strategy is considered
- economically viable solutions with definite return on investment
- modular and easily implemented solutions
- operational team takes care of the client's system, enabling the client to maintain its core business focus
- transparency, with quality monitoring and compliance

Some of Watercare Mining's successes for design and implementation of unconventional plants are illustrated below:



4.5 ML/DAY EXCESS UNDERGROUND MINING WATER TO POTABLE DRINKING WATER PLANT



2.5 ML/DAY EXCESS UNDERGROUND MINING WATER TO POTABLE DRINKING WATER PLANT



0.5 ML/DAY MUNICIPAL WATER TO DEMINERALISED WATER PLANT.



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COMPLETED PROJECTS

			CAPACITY			
Application	Country	Basic Process Description	m ³ /hour	Feed	Product	Completed
Gold Mining	South Africa	Media Filtration & Reverse Osmosis	104	Underground Mining Water	Drinking Water	2013
Gold Mining	South Africa	Media Filtration & Reverse Osmosis	40	Underground Mining Water	Drinking Water	2014
Gold Mining	South Africa	Ultra Filtration & Reverse Osmosis	30	Underground Mining Water	Drinking Water	2014
Gold Mining	South Africa	Zero Liquid Discharge Ion Exchange	1041	Mine Fissure Water	Drinking Water	2014
Gold Mining	South Africa	Zero Liquid Discharge Media Filtration & Softening	208	Contaminated Fissure Water	Drinking Water	2015
Gold Mining	South Africa	Ultra high recovery precipitation, media filtration & reverse osmosis	15	Acid Mine Drainage	Drinking Water	2016
Gold Mining	South Africa	Media Filtration, Ion Exchange & Reverse Osmosis	188	Underground Mining Water	Drinking Water	2017
Gold Mining	South Africa	Media Filtration & Reverse Osmosis	165	Underground Mining Water	Drinking Water	2019
Platinum Mining	South Africa	Media Filtration & Reverse Osmosis	20	Municipal Water	Process Demineralised Water	2018
Various	South Africa	CoolQuench Portable use plant	65 units	Underground Mining Water	Drinking Water	2013-2019