

Scope of Work
Provision of consultancy, management,
monitoring and
maintenance of the Legionella water
Hygiene Management Programme

1. Purpose

The purpose of the scope of work is to set out the the provision of consultancy, management, monitoring and maintenance of water systems for the governance and control of the Legionella bacteria in hot and cold water systems.

These services are required for Rössing Uranium mine to comply with the requirements of the Rio Tinto Health Standard: H5 as well as the required local and internationally recognised standards for the control of Hazardous Biological Agents (HBA).

2. Scope

The following services will fall within the scope of this agreement:

2.1.1 Monitoring of

- Cooling towers and associated systems;
- Domestic systems;
- Fire systems;
- Sprinkler systems;
- Emergency shower and eye wash units;
- Air Handling Units (AHU's);
- Potable water - bi-annual potable samples to SANS 241 Standards - T.V.C, E. Coli, Total Coliforms and Escherichia Coli from random outlets.

2.1.2 Supply of dip slides to allow ongoing microbiological analysis by site of required systems (we use 20 boxes per year consisting of 10 dip slides each, ie - a total of 200 dip slides annually).

2.1.3 Reporting of results & recommendations

Written reports should be submitted after each visit, including at least the following:

- Type of services rendered.
- Results of the microbiological analysis of water samples.
- Problems encountered.
- Observations made.
- Recommendations with procedures for 'out of spec' results.

2.1.4 Training and awareness given bi-annually to all involved in dip slide monitoring:

- Introduce the employees to Legionella and all the risks involved.
- Providing the employee with all relevant information regarding the management and control of Legionella.
- The importance and methodology of regular dip slide monitoring.

2.1.5 Site visits and frequency

- Site visits which include inspections & sampling should take place on a six-monthly basis each year.
- Refresher training should be provided on a bi-annual basis on general legionella awareness, the use of dip slides and the interpretation of results.

All system assessments, report compilation, record keeping and recommendations carried out during the course of the contract are required to be undertaken according to **internationally recognised standards** ie South African National Standard (SANS) 893-1 and 893-2.

After each inspection consultants are expected to provide a certificate from an independent SANAS accredited laboratory consisting of Legionella and potable water sampling results.