

## Is Your Cooling System Operating Effectively?

### Remit

RMP AquaKlar are engaged to evaluate and report on the operational performance and condition of cooling systems in a large number of high profile CBD buildings within Melbourne and Sydney.

### Comments

A cooling tower is a key element of cooling system within a building. It is estimated 25% of all water consumed within the Sydney CBD is attributable to cooling systems.



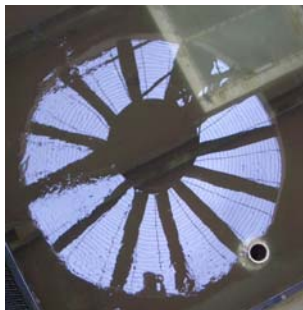
Control equipment not operational

Yet through the assessment processes employed by RMP AquaKlar, it is not uncommon to find cooling towers with excessive water losses, incorrectly plumbed equipment, poor operating practices and non-operating elements.



Absence of water treatment

These factors can combine to result in excessive water and energy usage, reduced plant and equipment life expectancy.



Light shining on cooling water holding basin

A review of the cooling water system will typically reveal numerous areas where simple and cost effective changes, repairs or alterations will result in more efficient, safer and less wasteful practices.



Cooling system corrosion issues

The photographs above and below demonstrate some of the many issues typically encountered by RMP AquaKlar during the nearly 1000 audits, risk management plans (RMPs) and system assessments undertaken each year.



Cooling tower found bleeding to a storm water drain

A system review should aim to review the cooling system holistically to assist the client obtain a cooling system which:

- ▶ Meets minimum legal and environmental standards



Cooling tower found bleeding to a storm water drain

- ▶ Reduce *Legionella* and other microbiological risk
- ▶ Control scale, corrosion, fouling issues
- ▶ Optimise utility costs such as energy, water and trade waste
- ▶ Implement processes which maximise equipment life expectancy, and minimise day to day operational cost.



Missing cooling tower spray nozzles

### Conclusion

Cooling system assessments typically provide valuable utility and equipment cost saving opportunities through typically low cost remedial works.