BULLETIN

SEPTEMBER 2014

PERFORMANCE MONITORING

Monitoring borehole and pump performance is essential for safeguarding continuity of supply; ensuring boreholes provide a consistent quantity and quality of water; maximising the operational life of pumps and boreholes; and minimising the risk, financial cost and disruption caused by unexpected maintenance and repair. Not doing so can result in a sudden loss of water, for example through a pump failure or in exceptional cases, through a catastrophic failure of the borehole itself.

Not monitoring performance can result in pump and in some cases, borehole failure

Monitoring performance does not have to be expensive or complicated. The key steps to successful monitoring are:

1. Develop a scheme of monitoring

This should include regular monitoring of abstraction rates, groundwater levels, pump power consumption and – if necessary – water quality and chemistry indicators.

2. Install monitoring equipment

Installation of automatic monitoring equipment will aid in the regular collection of data. Equipment is available to suit all applications and budgets.

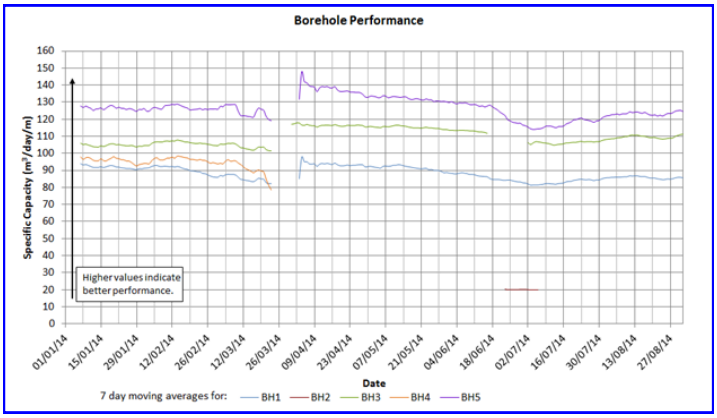
3. Data QA/QC

Regular data review is essential. Data collected using monitoring equipment MUST be regularly checked and calibrated through manual measurements.

Performance can be represented using appropriate KPIs

4. Review & interpret the data

Developing Key Performance Indicators (KPIs) will help identify trends in borehole and pump performance.



5. Decision Tree

Trends in performance should be used to plan maintenance works. Developing a decision tree allows borehole users to quickly decide when to carry out maintenance and what sort of maintenance is required.

WE ARE HERE TO HELP

Envireau Water specialise in all aspects of borehole monitoring, from the specification and installation of monitoring equipment and data collection systems; to the management, review and interpretation of the data for a wide range of applications and target audiences. Visit our website for more information.

www.envireauwater.co.uk