



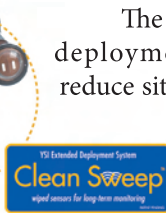
# Extended Deployment Appeals to Users Worldwide

The YSI 6600EDS (Extended Deployment System) can measure up to 13 parameters in even severe fouling environments, and reduce the frequency of site visits considerably.

Those responsible for the measurement of water quality will know that continuous monitoring is usually necessary in order to gain an accurate understanding of conditions. However, frequent re-visits to monitoring sites are necessary for cleaning and re-calibration purposes, which can be time consuming and expensive.



just YSI 6600EDS showing patented Clean Sweep™ rotation.

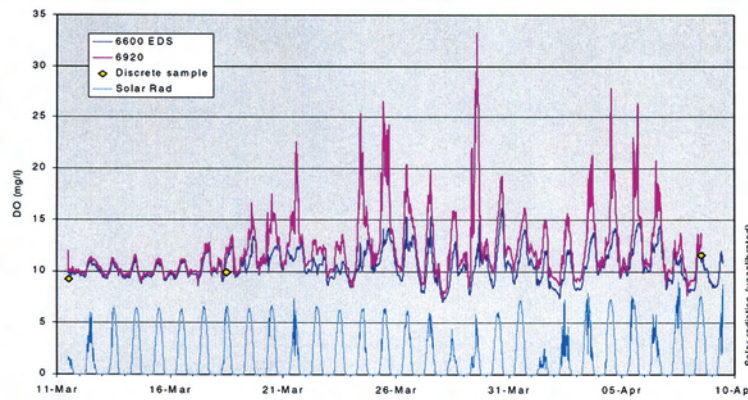


The launch of YSI's extended deployment system will often reduce site visits from about 24 to 4 per year, and this has made it extremely popular with users.

Richard Acornley, a Monitoring and Data Officer for the Environment Agency, South Wessex Region managed a trial in the Fleet Lagoon near Weymouth, where rapid biological sensor fouling make frequent site visits essential. The YSI Clean Sweep system was therefore evaluated alongside a traditional sonde to assess its capabilities in this difficult environment. The Clean Sweep system periodically cleaned the chlorophyll, dissolved oxygen and pH probes, and as a result the intervals between site visits were increased from one week to one month.

The following graph demonstrates the advantages of Clean Sweep™ very effectively:

The dark blue line shows data from a 6600EDS in comparison with a traditional DO sensor in pink following diurnal variation shown by the light blue solar radiation data. The traditional sensor suffers from false oxygen peaks as a result of algae on the membrane, whereas the wiped sensor continues to record accurate data as shown by the spot checks in yellow.



In his conclusions, Richard noted that the traditional DO sensor membrane was visibly fouled after 15 to 20 days of deployment, whereas the Clean Sweep system was effective at keeping the DO membrane **visibly clean for at least 73 days.**

In the United States, researchers at the Center for Applied Aquatic Ecology in North Carolina also had a need to monitor water quality in heavy fouling conditions. Dr. Robert Reed and David Toms, under the supervision of Dr. Howard Glasgow, have developed a real-time remote monitoring program in the lower Neuse River Estuary that includes a network of autonomous and real-time data acquisition stations with surface to bottom sensor profiling. This program is collecting the data necessary to characterise physicochemical and biological response of the Neuse River in the presence of natural and anthropogenic phenomena.



Sensor fouling and consequent drift and failure were previously the most significant obstacles to the operation of this program, and often resulted in the need to service each deployment station as often as every 3 days. For this reason, YSI's extended deployment system was ideal. Dr. Reed reported that the 6600EDS has saved his program valuable time and money that this will be used to further expand the protection of the river.

***"The trial clearly demonstrated that the Clean Sweep™ system was able to extend the period between site visits to the Fleet Lagoon fourfold."***

***—Richard Acornley***

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