

IQ SensorNet Provides Reliable, Accurate Continuous Measurement for Troubleshooting Nitrification and Denitrification



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YSI IQ SensorNet Wastewater Monitoring & Control, Ohio Application Note A612

The proper tools are essential to fixing any problem. Over the years, Ohio EPA's Compliance Assistance Unit (CAU) has helped dozens of water resource recovery facilities (WRRF) get back into and maintain compliance with NPDES discharge permits. Their field toolkit has included an assortment of batch sampling kits and handheld instruments. Each tool had its place but each also had limitations and, as a result, the compliance puzzle often was missing important pieces. Increasingly, as nutrient limits were incorporated into discharge permits, the missing piece was characterizing the dynamics of nitrification and denitrification. A new tool was needed with the following four features:

Continuous. Continuous measurement with datalogging is essential to diagnosing problems. Batch tests on manual samples or laboratory measurements from grab samples provide a snapshot but do not provide insight into treatment dynamics. Furthermore, many problems occur overnight or on weekends when operators are not present to take measurements.

Simple. The tool needs to be simple and easy to understand. Many operators are part-time and most have additional responsibilities besides wastewater treatment. Tools that are overly complicated or require a lot of maintenance take time away from the operator to monitor treatment now and will eventually be neglected eliminating the possibility for greater understanding of the process for the future.

Inexpensive. The tool needs to be inexpensive. It is important that the acquisition cost be comparable with other tools to fit into the budget. It is also important that ownership cost is low to not significantly increase the annual operating expenses. Furthermore, many wastewater

facilities are small facilities serving institutions that also have a limited budget. Even better is a tool that pays for itself by enabling reduced O&M costs for energy or chemical inputs.

Versatile. Wastewater treatment requires balancing a number of concurrent reactions. Tools that enable simultaneous evaluation of multiple parameters reduce the time required for troubleshooting and improve the result are highly desirable. The YSI IQ SensorNet has all the desired features and offered a reliable option for monitoring ammonium and nitrate with one instrument. The CAU equipment budget was limited so they needed proof of performance before placing an order. YSI provided a trial system for them to evaluate and helped set up the system at the Millersburg, Ohio wastewater treatment plant. Two VARiON sensors were deployed, one in the anoxic basin (**Figure 1**) and the other in the final effluent channel (**Figure 2**). Each digital sensor was outfitted with ion selective electrodes (ISE) for ammonium, nitrate, and potassium in addition to a reference electrode and a temperature probe. An MiQ/Blue PS bluetooth module was utilized to connect the two measurement locations on the same network without the need for additional cabling.



Figure 1: IQ SensorNet VARiON Sensor in Anoxic Tank



Figure 2: IQ SensorNet VARiON Sensor in Final Effluent

Data retrieved from the Millersburg trial demonstrates the accuracy of the IQ SensorNet measuring system. A comparison of ammonium measurements recorded by the VARiON sensor and daily reference measurements made with a portable colorimeter from grab samples taken from the anoxic tank is shown in **Figure 3**. There is close agreement between the online measurements and the grab measurements in most cases. There was no attempt to determine which value

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