

BIOSCIENCE OFFERS
NEW CONTINUOUS BOD MONITOR

BETHLEHEM, PA (April 23, 2001) -- A new on-line, continuous biochemical oxygen demand (BOD) meter for wastewater plants has been introduced by Bioscience, Inc. Known as the Q-BOD Meter, the system has excellent reproducibility and correlation with standard 5-day BOD tests. Standard features include automatic line washing, sensor auto-calibration and automatic control of sample volume for three months of maintenance-free operation.

Since the correlated BOD of a sample can be measured in as little as 20 minutes, the instrument enables users to monitor BOD trends before a wastewater plant problem gets out of hand, evaluate the toxicity of influents and their effect on wastewater treatment plant loading, and monitor effluent quality. BOD₅ levels from 0.5 to up to 10,000 mg/l can be measured.

The new Bioscience instrument is an on-line bioreactor in which a suspension of microorganisms (biomass) is aerated until it reaches the endogenous respiration stage. When a wastewater sample is added, the microorganisms begin to degrade it rapidly, causing an increase in oxygen uptake rate (OUR) and a decrease in dissolved oxygen (DO) compared to the levels during endogenous respiration. When the organic matter in the sample is consumed, the microorganisms return to the endogenous stage. Precise DO consumption measurements during the degradation phase correlate closely with the BOD₅ of the sample. A PC monitor displays DO concentration and correlation with BOD₅, plus OUR and temperature in the sampling and reaction vessels.

The self-contained unit includes monitor and keyboard, bioreactor with DO sensor, temperature sensor, heater and aeration, sample tank, mixing vessel, nutrient tank, agitator and air pump.

For additional information contact Bioscience, Inc., 1550 Valley Center Parkway, Suite 140, Bethlehem, PA 18017, phone 800-627-3069, fax 610-691-2170, e-mail bioscience@bioscienceinc.com or visit the website at www.bioscienceinc.com.