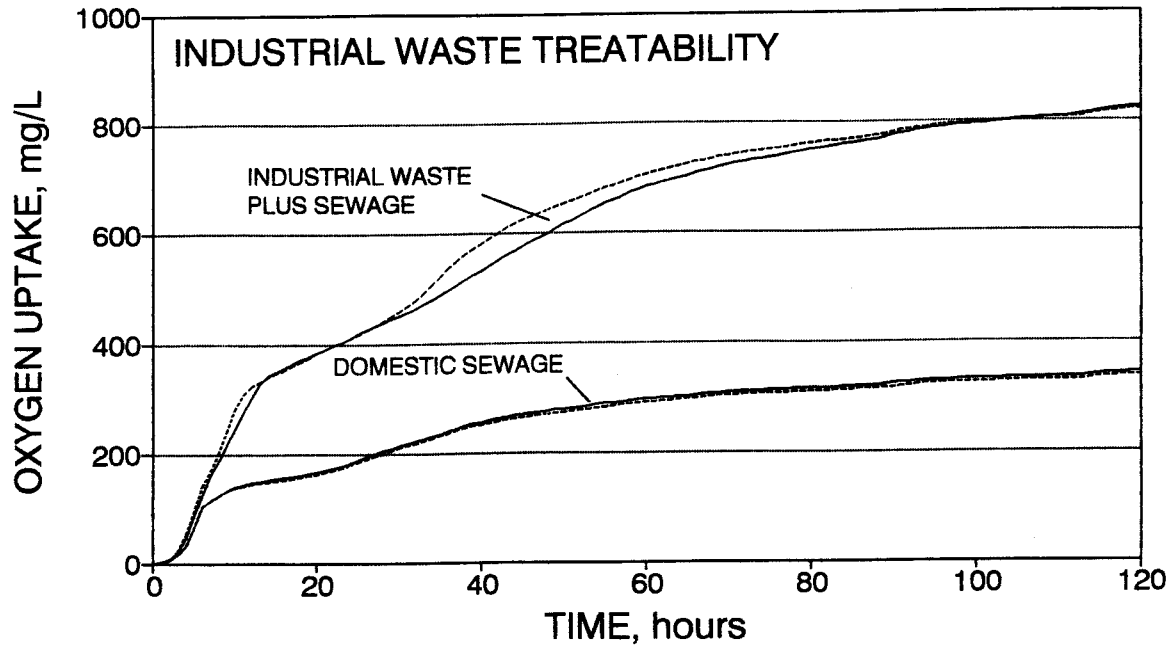


APPLICATION: INDUSTRIAL WASTE TREATABILITY



Waste Type: Detergents

Objective: To determine if detergents in an industrial waste were aerobically biodegradable or caused inhibition of aerobic biodegradation reactions.

Test Setup: Samples of domestic sewage and industrial waste mixed with domestic sewage were added to respective respirometer test vessels. Nutrients, minerals and buffer were added to satisfy biological requirements and TCMP was added to eliminate interference from nitrification. Duplicate samples of each test were analyzed. Oxygen uptake was measured over a five-day test period using a CHALLENGE AER-200 respirometer.

Analysis: The industrial waste was highly biodegradable and caused no lag or toxic impact on the oxygen uptake of the domestic sewage. Good agreement between test duplicates verifies the high measurement precision possible with the CHALLENGE system.