

## Wastewater Characterisation

### The Service



suitability of wastewater The for biological nutrient removal can be difficult determine, however to characterisation tests can provide a laboratory assessment. The performance of an existing biological plant can also be monitored.





# The Solution

Characterisation are tests tailored analytical procedures that can provide assessment of the wastewater. an Parameters include seven COD fractions, with phosphate release and uptake tests, to determine if the wastewater amenable bio-P is to processes





### The Support

We provide independent, focused, and confidential support. WatStech offers 30 years combined water and wastewater experience and have regularly used wastewater characterisation for Water Industry clients.



### **COD fractionation & P-release or uptake**

#### **COD FRACTIONS**

Total Soluble inert Soluble biodegradable Particulate biodegradable Particulate inert Unbiodegradable



#### RATIOS rbCOD to P Total COD to P Suitability to bio-P processes

#### FULL-SCALE PROCESS MONITORING

24 hour sampling service Rapid turnaround of results Performance optimisation P-RELEASE OR UPTAKE Substrate limited Potential of wastewater for bio-P Performance of installed bio-P



## **Analysing Wastewater**

Wastewater Quality COD, BOD, Orthophosphate, Total P Ammonia, Nitrate, Nitrite.

#### Additional analysis

Total organic nitrogen Total oxidisable nitrogen Alkalinity & Hardness Metal analysis



### WatStech Ltd.

www.watstech.com Email info@watstech.com Tel. 08456 123 820 Fax. 08456 123 821 Bacterial Activity 1 Phosphate Release rates Phosphate Uptake rates Nitrification rates Denitrification rates

Bacterial Activity 2 Influence of: pH, DO & temperature Nutrients organic & inorganic Bacterial cell concentration