

INDUSTRIAL WASTE TREATMENT

CASE STUDY

THE USE OF BCP10 TO REDUCE COD LEVELS FROM CHEMICAL MANUFACTURING PLANT



Initial stage of BCP10 application in wastewater system access.

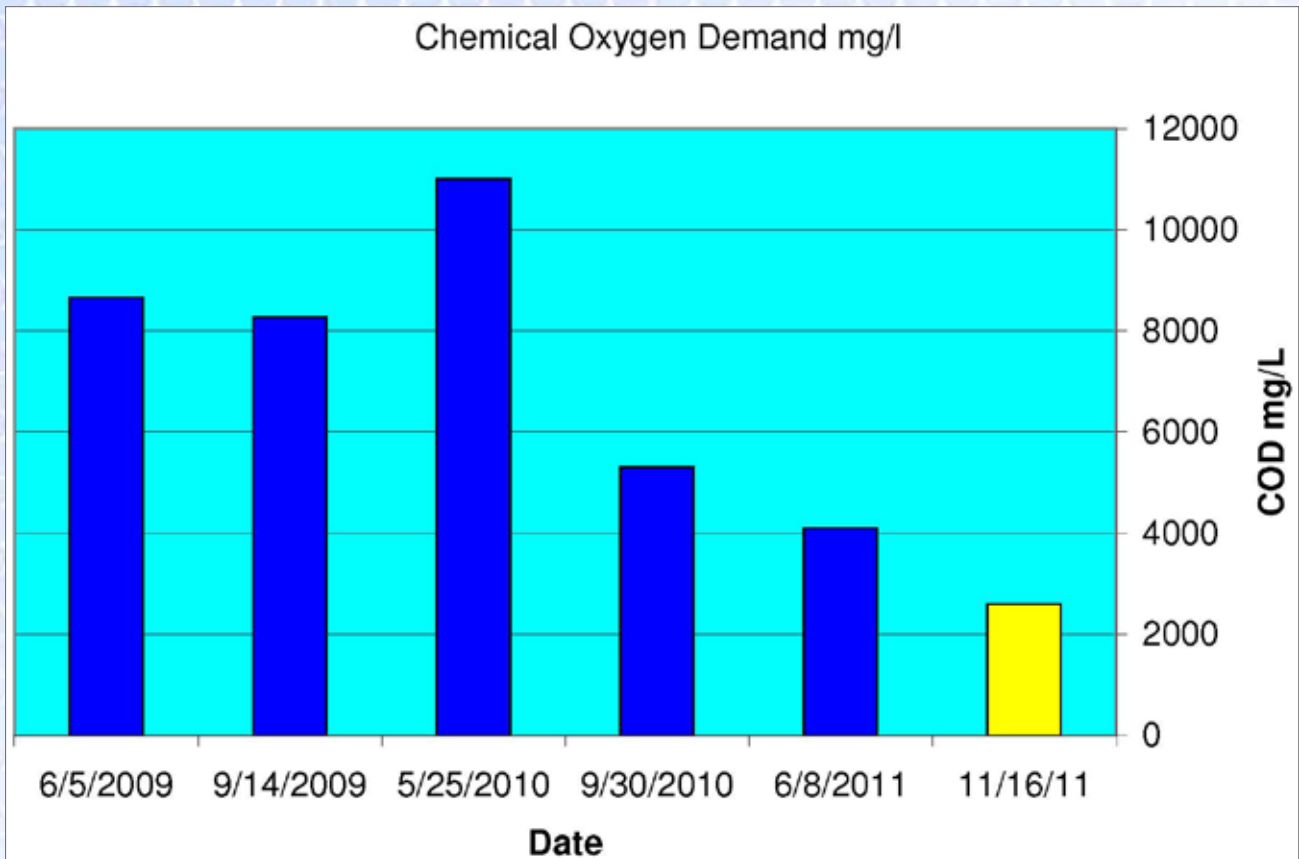


BCP10 water soluble bag breaking down in wastewater system.

A chemical manufacturing plant located in the northern Midwest was experiencing high levels of Chemical Oxygen Demand (COD) in its discharge water. The local municipality had levied additional surcharges to treat the excess loading coming into its treatment facility from the plant. The environmental management at the plant needed to find a solution in order to reduce the excess surcharges, after careful consideration a Bioaugmentation program was selected.

Pre-trial sampling showed the COD levels to vary between 4000 and 10000mg/1. The program consisted of adding a 0.5 kg pouch of Bionetix BCP10 Surfactant to the wastewater system every day for three days, and then one pouch every week for the remainder of the 6 week treatment period. Maximum flow for this period was 0.01 liter per second.

COD levels declined to 2600mg/1 and the TSS also declined significantly over the period of the trial. For complete treatment results, see the graph (reverse side). The decline in the COD levels following treatment permitted the chemical plant to meet current discharge levels and to realize cost savings associated with the results.



Graph showing COD levels before and after using Bionetix BCP10.