CASE HISTORY

Chemical Processing Industry

RECORDED BENEFITS

- Significant biochemical oxygen demand (BOD) reduction within days of application
- COD improved and stabilized despite fluctuating influent levels to wastewater plan
- Proprietary heat tolerant bacterial blend reduced and maintained COD performance within discharge limits

Temperature Resistant Aid Significantly Improves COD and BOD

Praestol™ BA300H Bioaugmentation Aid

Customer Challenge

The wastewater pre-treatment system was part of a chemical manufacturing facility. Influent chemical oxygen demand (COD) was 489 ±79 ppm. The system consisted of an equalization basin, an 800 m^3 aeration basin with diffused air; a secondary clarifier and sand filter.

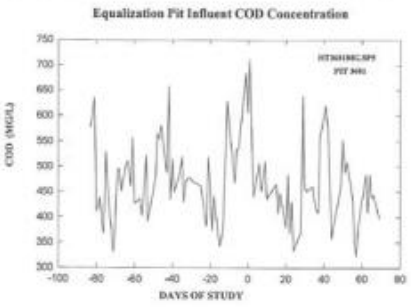
COD removal normally ranged from 81- 96%. However, during summer months, the rise in temperature and peak flows were associated with a reduction in COD removal capacity. The loss of performance caused intermittent excursions of COD to above discharge limits.

Recommended Solution

The system was inoculated with Solenis' Praestol BA300H, a proprietary blend of temperature resistance bacteria strain designed to improve performance and stabilize the operations of the waste treatment plant.

Results Achieved

COD in influent stream to wastewater continues to varies.



Post treatment of Praestol BA300H, COD in final wastewater effluent decreases.