

Case Study #22

- Client Category:** Municipal Sewage Treatment Plant
- Location:** Ireland
- Physical Plant:** Two aeration basins running parallel to individual clarifiers.
- Influent Type:** Municipal with high peak loadings.
- Flow:** 12,500 cubic meters / day is the average dry weather flow.
Water retention time of 8 hours.
Sludge retention time of 5-7 days.
- Problem:** Poor biological treatment throughout the plant due to sludge carry over.
High levels of grease and fats.
- Treatment:** The recommended daily dosage of **Custom WP** was applied directly into the entry channel of the plant.
- Results:** The following averages were obtained after six months of treatment. The amount of oxygen required to run the plant was reduced by 30%. There was a significant reduction in grease and fats.

	BOD	BOD	COD	COD
	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
Before Treatment	460	95	580	135
Month 1	460	85	600	95
Month 2	440	38	560	80
Month 3	480	30	620	60
Month 4	560	28	680	62
Six Month Average				
With Treatment	460	28	520	55
	mg/L	mg/L	mg/L	mg/L