

Organic Loading Comparison

8352

Biological Process	Process Type	lbs BOD/day /1000 cu ft	kg BOD/m ³ /day	lbs COD/day /1000 cu ft	kg COD/m ³ /day
Extended Aeration and SBR reactors	Aerobic	10*	0.17	15	0.26
Conventional Activated Sludge	Aerobic	30*	0.52	45	0.77
Step Aeration and Complete Mix Plants	Aerobic	40*	0.69	60	1.02
Contact Stabilization	Aerobic	50*	0.87	75	1.28
Fixed Film Processes of Rotating Biological Surface and Trickling Filters	Aerobic	250**	4.33	375	6.38
Conventional High Rate Treatment	Anaerobic	NA	NA	1250**	20
OAT™ Process	Anaerobic	NA	NA	6250	100

* 10 States Standards

** Common industry practice

Sludge Production:

Aerobic Processes—Approximately 0.3-0.5 lbs/lb BOD Reduced

Anaerobic Processes—Approximately 0.01-0.05 lbs/lb BOD Reduced

