

Table 3: Nutrient removal capacity, rates and yield required per gram of *Scenedesmus* sp. biomass at steady state for different dilution rates

	0.2, 1/day	0.3, 1/day	0.4, 1/day	0.6, 1/day	0.8, 1/day
COD in (mg/L)	1,180	1,120	1,180	1,180	1,180
COD out(mg/L)	88.5	92.0	88.8	73.9	94.9
N-NO ₃ ⁻ in (mg/L)	2.3	2.8	2.3	2.3	2.3
N-NO ₃ ⁻ out (mg/L)	2.3	2.4	3.2	1.3	1.7
N-NH ₄ ⁺ in (mg/L)	61.7	63.5	61.7	61.7	61.7
N-NH ₄ ⁺ out (mg/L)	0.5	0.3	0.5	0.6	24.1
N removal (mgN/L·day)	12.2	19.0	24.1	34.6	26.0
N yield (mgN/g biomass)	23.3	31.5	32.1	37.6	29.2
P-PO ₄ ³⁻ in (mg/L)	21.9	6.5	21.9	21.9	21.9
P-PO ₄ ³⁻ out (mg/L)	0.2	0.6	0.6	0.6	1.5
P removal (mgP/L·day)	4.3	1.7	8.5	12.7	16.3
P yield (mgP/g biomass)	8.2	2.9	11.3	13.8	18.2