

**Table S1.** Spring and Autumn 2018 Load selected antibiotics in mg/day/1000 inhabitants.

#WWTP	Spring 2019		Autumn 2019	
	Influent Antibiotic Mass Loading (mg/day/1000 Inhabitants)	Effluent Antibiotic Mass Loading (mg/day/1000 Inhabitants)	Influent Antibiotic Mass Loading (mg/day/1000 Inhabitants)	Influent Antibiotic Mass Loading (mg/day/1000 Inhabitants)
WWTP1	ENR = 279.8	ENR = 123.3	ENR = 109.1	ENR = N/D
	SDZ = N/D	SDZ = N/D	SDZ = 39.8	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 497.8	AZI = 426.6	AZI = 1977.2	AZI = 804.9
	TMP = 61.63	TMP = N/D	TMP = 80.1	TMP = 20.9
WWTP2	ENR = 159.2	ENR = 153.5	ENR = 176.2	ENR = N/D
	SDZ = 38.7	SDZ = 34.1	SDZ = 30.7	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 431.9	AZI = 250.1	AZI = 1019.1	AZI = 400.7
	TMP = 51.2	TMP = 34.1	TMP = 29.6	TMP = 27.9
WWTP3	ENR = 1166.7	ENR = 399.15	ENR = 798.3	ENR = 614.1
	SDZ = N/D	SDZ = N/D	SDZ = N/D	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 829.0	AZI = 645.1	AZI = 2072.5	AZI = 1277.0
	TMP = N/D	TMP = N/D	TMP = N/D	TMP = N/D
WWTP4	ENR = 155.2	ENR = N/D	ENR = 133.8	ENR = N/D
	SDZ = N/D	SDZ = N/D	SDZ = N/D	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 597.3	AZI = 214.1	AZI = 1296.7	AZI = 588.7
	TMP = 42.8	TMP = 21.4	TMP = 33.2	TMP = 32.7

Table S2. Spring and Autumn 2019 Load of selected antibiotics in mg/day/1000 inhabitants.

#WWTP	Spring 2019		Autumn 2019	
	Influent Antibiotic Mass Loading (mg/day/1000 Inhabitants)	Effluent Antibiotic Mass Loading (mg/day/1000 Inhabitants)	Influent Antibiotic Mass Loading (mg/day/1000 Inhabitants)	Influent Antibiotic Mass Loading (mg/day/1000 Inhabitants)
WWTP1	ENR = 4329.5	ENR = 2495.4	ENR = 331.83	ENR = N/D
	SDZ = 88	SDZ = N/D	SDZ = 17.1	SDZ = 2
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 10127.1	AZI = 4447	AZI = 437.5	AZI = N/D
	TMP = 1401.8	TMP = N/D	TMP = 31.8	TMP = 31.8
WWTP2	ENR = 2963.6	ENR = 728.1	ENR = 5.7	ENR = 3.4
	SDZ = 184.2	SDZ = N/D	SDZ = N/D	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 1931.9	AZI = 1561.9	AZI = 236.5	AZI = 165.9
	TMP = N/D	TMP = N/D	TMP = 28.4	TMP = 18.9
WWTP3	ENR = 1989.6	ENR = N/D	ENR = N/D	ENR = N/D
	SDZ = N/D	SDZ = N/D	SDZ = 15.3	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 3831.8	AZI = 3393.1	AZI = N/D	AZI = N/D
	TMP = N/D	TMP = N/D	TMP = 67.5	TMP = 15.35
WWTP4	ENR = N/D	ENR = N/D	ENR = N/D	ENR = N/D
	SDZ = N/D	SDZ = N/D	SDZ = N/D	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 11,332.4	AZI = 4261.63	AZI = 535.2	AZI = 30.5
	TMP = 891.6	TMP = 787.2	TMP = 62.6	TMP = N/D

**Table S3.** Removal efficiencies of the different WWTPs for selected antibiotics.

#WWTP	Spring 2018	Autumn 2018	Spring 2019	Autumn 2019
WWTP1	ENR = 56%	ENR = 100%	ENR = 42%	ENR = 100%
	SDZ = N/D	SDZ = 100%	SDZ = 100%	SDZ = 89%
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 14%	AZI = 59%	AZI = 56%	AZI = 100%
	TMP = 100%	TMP = 74%	TMP = 100%	TMP = 0%
WWTP2	ENR = 4%	ENR = 100%	ENR = 75%	ENR = 40%
	SDZ = 12%	SDZ = 100%	SDZ = 100%	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 42%	AZI = 61%	AZI = 19%	AZI = 30%
	TMP = 33%	TMP = 6%	TMP = N/D	TMP = 40%
WWTP3	ENR = 66%	ENR = 23%	ENR = 100%	ENR = N/D
	SDZ = N/D	SDZ = N/D	SDZ = N/D	SDZ = 100%
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 22%	AZI = 38%	AZI = 11%	AZI = N/D
	TMP = N/D	TMP = N/D	TMP = N/D	TMP = 77%
WWTP4	ENR = 100%	ENR = 100%	ENR = N/D	ENR = N/D
	SDZ = N/D	SDZ = N/D	SDZ = N/D	SDZ = N/D
	AMX = N/D	AMX = N/D	AMX = N/D	AMX = N/D
	AZI = 64%	AZI = 55%	AZI = 62%	AZI = 94%
	TMP = 50%	TMP = 2%	TMP = 12%	TMP = 100%