

Supporting Information

Table S1. CECs analyzed in Sant Vicenç dels Horts Site, and their main applications. Highlight those analyzed also in Palamos site.

Function and/or main use	Compound
Analgesics and anti-inflammatories	Diclofenac
	Ibuprofen
	Naproxen
	Paracetamol
	Phenazone
Stimulants and caffeine metabolites	Caffeine
	Paraxanthine
	Theobromine
	Theophylline
	1-Methylxanthine
	3-Methylxanthine
Antihypertensive Agents	Atenolol
	Metoprolol
	Sotalol
Contrast Media	Iohexol
	Iomeprol
	Iopamidol
	Iopromide
Antibiotics	Clarithromycin
	Erythromycin
	Roxithromycin
	Sulfamethoxazole
	Trimethoprim
Lipid regulators	Bezafibrate
	Clofibric acid
	Gemfibrozil
Antihistamines	Cetirizine
	Loratadine
Anticonvulsants and sedatives	Carbamazepine
	Diazepam
	Primidone
	Tetrazepam
Selective serotonin reuptake inhibitors	Citalopram
	Fluoxetine
	Sertraline
Pesticides and pesticide Metabolites	Atrazine
	Desethylatrazine
	Desisopropylatrazine
	Diuron
	Isoproturon
	Mecoprop
	Metazachlor
Corrosion inhibitors	Benzotriazole
	Tolyltriazole

Cocaine Metabolite	Benzoylcegonine
Proton Pump Inhibitor	Pantoprazole
Antipsychotic	Haloperidol
Selective estrogen receptor modulators	Tamoxifen
tobacco alkaloid	Cotinine
Herbicide	Terbutylazine
Metabolite	Atenololic acid

Table S2. CECs analyzed at Palamos site, and their main applications. Highlight those analyzed also in Sant Vicenç dels Horts site.

Function and/or main use	Compound
UV filters	Benzophenone 3
	Benzophenone 1
	Benzophenone 2
	Benzophenone 4
	4-Hydroxybenzophenone
	4,4'-Dihydroxybenzophenone
	2,2'-4-methoxy-benzophenone
	Avobenzone
	Octyl methoxycinnamate
	3-(4-methylbenzylidene)camphor
	Ethyl 4-aminobenzoate
	<b>1,2,3-Benzotriazole</b>
	5Methyl Benzotriazole
	Dimethyl benzotriazole
2-(2-Benzotriazolyl)-p-cresol	
Parabene preservatives	Benzyl parabene
	Buthyl parabene
	Propyl parabene
	Methyl parabene
Pharmaceuticals	Flumequine
	Ofloxacin
	Ciprofloxacin
	Nalidixic acid
	Oxolonic acid
	Tetracycline
	Oxytetracycline
	Succinil-sulfathiazole
	Sulfadiazine
	N4-Acetyl sulfamerazine
	Sulfamerazine
	N4-Acetyl Sulfamerazine
	N4-Acetyl Sulfamethazine
	<b>Sulfamethoxazole</b>
N4-acetylsulfaquinoxaline	
Sulfamethoxypyridazine	
Sulfapyridine	
N4-Acetylsulfapyridine	
Sulfaquinoxaline	

	Sulfathiazole
	Sulfisomidin
	Sulfadimethoxine
	Trimethoprim
	Gemfibrozil
	Mefenamic acid
	Naproxen
	Diclofenac
	Diclofenac-13C
	Diclofenac 4-hydroxy
	Ketoprofen
	Paracetamol
	Ibuprofeno
	Carbamazepine
	Carbamazepine 10,11-epoxy
	Atenolol
Pharmaceuticals	Norfluoxetine
	N-desmethylvenlafaxine
	Salicylic acid
	Caffeine

Table S3. Average values of T<sup>a</sup>, pH, EC and average concentration of DOC, O<sub>2</sub>, NO<sub>3</sub><sup>-</sup>, NH<sub>4</sub><sup>+</sup>, SO<sub>4</sub><sup>2-</sup>, measured in samples of infiltration water, monitoring point placed immediately below the unsaturated zone (Point-O), and effluents (Point-E) of the reference system (T2), and the systems operating with reactive barrier based on compost (T4), and woodchips (T5). The travel distances from the infiltration area to the O points is 1m while the distance to the effluent point is 15 m.

	Infiltration	T2-O	T2-E	T4-O	T4-E	T5-O	T5-E
DOC (mg/l)	16.55	21.52	9.37	38.23	14.48	17.37	14.06
O <sub>2</sub> (mg/l)	4.46	0.41	2.29	0.32	2.52	0.28	2.46
NO <sub>3</sub> <sup>-</sup> (mg/l)	LOD	16.58	LOD	12.43	6.5	5.99	0.39
NH <sub>4</sub> <sup>+</sup> (mg/l)	43.63	19.85	18.2	25.8	21.09	33.05	26.64
SO <sub>4</sub> <sup>2-</sup> (mg/l)	17.3	16.99	17.38	18.4	18.32	17.47	18.02
T <sup>a</sup> (°C)	16.7	15.58	14.36	15.49	14.18	13.48	13.69
pH	7.58	6.85	6.88	6.88	7.17	6.77	6.85
EC (µS/cm)	2324	1801	2798	1688	2874	1280	2873
Travel distance (m)	0	1	15	1	15	1	15