Supplementary material for

The distribution of veterinary antibiotics in the river system in a livestock-producing region and interactions between different phases

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Table S1 MRM parameters of the antibiotics analyzed in this study

Table S2 Recoveries and limit of detection/quantification in water, sediment and suspended particulate matter

Table S1 MRM parameters of the antibiotics analyzed in this study

Compound	Q1	Q3	DP	CE
Tetracycline	445.2	154.2/410.2	65	37/25
Oxytetracycline	461.1	426.2/443.3	55	28/23
Tetracycline -D6	451.2	416.2/160.1	50	35/28
Ofloxacin	362.1	261.3/318.4	85	40/28
Enrofloxacin	360.3	245.2/316.3	45	25/35
Enrofloxacin -D5	365.3	245.1/288.2	55	40/35
Sulfadiazine	251.2	92.1/156.1	65	35/23
Sulfamethoxazole	254.2	92.1/156.1	65	35/22
Sulfamethoxazole -D4	283.3	186.2/124.2	60	40/20

Table S2 Recoveries and limit of detection/quantification in water, sediment and suspended particulate matter

Compound	Water				Sediment				Suspended particle matter			
	LOD[a] (ng/L)	LOQ[b] (ng/L)	Recovery (%)	RSD[c] (%, n=3)	LOD (ng/g)	LOQ (ng/g)	Recovery (%)	RSD (%, n=3)	LOD (ng/g)	LOQ (ng/g)	Recovery (%)	RSD (%, n=3)
Sulfadiazine	0.03	0.10	95.7	3.9	2.33	7.75	56.0	6.2	0.72	2.37	82.1	5.5
Sulfamethoxazole	2.12	7.07	84.0	6.4	0.92	3.06	61.3	4.3	1.01	3.32	79.2	7.8
Tetracycline	0.12	0.40	71.7	12.5	0.30	1.00	68.0	7.1	0.46	1.52	83.9	3.5
Oxytetracycline	2.17	7.18	68.0	7.3	0.34	1.13	71.3	4.9	0.95	3.14	77.2	4.4
Ofloxacin	0.11	0.34	81.0	9.1	0.12	0.40	79.1	10.2	0.21	0.70	83.0	6.1
Enrofloxacin	0.52	1.72	80.3	7.9	0.13	0.41	81.3	6.6	0.24	0.80	92.6	10.2

[a] LOD: Limit of detection; [b] LOQ: Limit of quantification; [c] RSD: Relative standard deviation