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Corrigendum

Corrigendum to "Pesticides drive risk in wastewater-impacted streams during low flow conditions" [Water Res. 110 (2017) 366–377]



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The authors regret to inform that there was an error in the above-cited paper related to the contribution of heavy metals to the list of the Top5 compounds contributing to the msPAF values at each site. However, the actual msPAF calculations are not affected nor is the overall conclusion of the manuscript that pesticides seem to be the drivers of the risk in small wastewater-impacted streams during low flow conditions.

As stated at the end of paragraph 3.2.3. Risk driving substances the msPAF was also calculated including heavy metals. However, when considering which compounds belonged to the Top5 in each sample, different thresholds were mistakenly used for listing the candidate compounds. Organic compounds were considered candidate compounds when their PAF values exceeded 0.0001%. For the heavy metals, the threshold was also very low (0.01%) but still higher. Due to this difference, some heavy metals were not listed among the Top5 in some cases, when the general toxicity level was low.

We stated that "Zn, at seven downstream and one upstream site, and Ni at only one upstream site, were part of the Top5 substances and contributed with fractions of 0.01-0.05% to the total msPAFs". When using the same threshold for the heavy metals as for the other compounds, these numbers increase and yield the numbers listed in Table C1 for all the samples (total number of samples upstream and downstream: each 96):

Table C1. Corrected number of cases in which heavy metals belong to the Top5 substances

Heavy metal	#Top5 upstream	#Top5 downstream
Zn	27	42
Ni	20	13
Cr	53	14
Cd	10	2
Ag	1	0

Zn, Ni, Cr, Cd and Ag belong to the Top5 substances of the msPAF, the other measured heavy metals with good quality toxicity data (Cu, Pb) did not appear. In addition, although these five metals appear frequently in the Top5 substances, the total contribution to msPAF is almost negligible. This is because Ni, Cr, Cd and Ag are in most cases Top5 substances at upstream sites with low msPAF where almost no other substance was detected and the single PAF values of the heavy metals are in most cases very low; e.g. the maximum PAF of Cr is 0.00063%. In fact, this can be nicely seen in *Figure S3.1* of the SI where the msPAF considering organic substances only is compared to the msPAF including heavy metals. This figure is still valid, as the thresholds used for the single PAF do not affect the total msPAF. In Table C2 (see below) the calculated msPAF values including heavy metals, using the same threshold for the PAF values for all Top5 substances are shown (compare *Table S3.4* in the SI where only organic substances were considered for the msPAF).

The authors would like to apologize for any inconvenience caused.

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Table C2. msPAF calculations including heavy metals. For the May 2014 the extended screening data set was used. Subst 1 to Subst5 indicate the Top5 substances. Top5 substances are listed only if the PAF is greater or equal to 0.0001%.

SiteName	LMR	Year	n Subst	msPAF	Top5 msPAF	%Tox Top5 Of Total	Name Subst1	PAF Subst1	Name Subst2	PAF Subst2	Name Subst3	PAF Subst3	Name Subst4	PAF Subst4	Name Subst5	PAF Subst5	msPAF - only HeavyMetals
Buttisholz	downstream	13 06	124	0.472%	0.470%	100	terbutylazine	0.385%	diazinon	0.081%	diclofenac	0.004%	pirimicarb	0.001%	tembotrione	0.0002%	NA
Buttisholz	upstream1	13 06	124	0.003%	0.003%	100	terbutylazine	0.003%	tembotrione	0.0001%							NA
Colombier	downstream	13 06	124	0.467%	0.467%	100	triflusulfuron-methyl	0.462%	diclofenac	0.002%	diuron	0.001%	naproxen	0.001%	atrazine	0.0005%	NA
Colombier	upstream1	13 06	124	0.441%	0.441%	100	triflusulfuron-methyl	0.435%	imidacloprid	0.006%	diuron	0.000%	atrazine	0.0001%			NA
Dürnten-Bubikon	downstream	13_06	124	0.060%	0.060%	100	diazinon	0.036%	diclofenac	0.013%	naproxen	0.002%	fipronil	0.001%	terbutrin	0.001%	NA
Dürnten-Bubikon	upstream1	13 06	124	0.001%	0.001%	100	terbutrin	0.001%	terbutylazine	0.0004%	diuron	0.0001%					NA
Herisau	downstream	13_06	124	0.150%	0.145%	96	diazinon	0.112%	diclofenac	0.020%	diuron	0.005%	terbutrin	0.002%	naproxen	0.002%	NA
Herisau	upstream1	13_06	124	0.005%	0.005%	100	diuron	0.003%	terbutrin	0.001%							NA
Hochdorf	downstream	13_06	124	0.023%	0.023%	100	diazinon	0.012%	diclofenac	0.006%	terbutylazine	0.001%	naproxen	0.001%	terbutrin	0.0003%	NA
Hochdorf	upstream1	13_06	124	0.003%	0.003%	100	terbutylazine	0.001%	diazinon	0.001%	terbutrin	0.0003%					NA
Hornussen	downstream	13_06	124	0.051%	0.051%	100	diazinon	0.027%	linuron	0.012%	diclofenac	0.006%	naproxen	0.002%	fipronil	0.001%	NA
Hornussen	upstream1	13 06	124	0.0003%	0.0003%	100	diuron	0.0001%									NA
Kernenried	downstream	13 06	124	0.168%	0.162%	97	diazinon	0.120%	diclofenac	0.023%	imidacloprid	0.013%	fipronil	0.002%	naproxen	0.002%	NA
Kernenried	upstream1	13 06	124	0.009%	0.009%	100	imidacloprid	0.008%									NA
Messen	downstream	13 06	124	0.917%	0.916%	100	diazinon	0.894%	terbutylazine	0.015%	diclofenac	0.006%	fipronil	0.001%	tembotrione	0.0002%	NA
Messen	upstream1	13 06	124	2.066%	2.064%	100	triflusulfuron-methyl	1.924%	diazinon	0.136%	terbutylazine	0.006%	isoproturon	0.0002%			NA
Niederdorf	downstream	13 06	124	0.020%	0.020%	100	diazinon	0.013%	diclofenac	0.004%	naproxen	0.002%	fipronil	0.0001%			NA
Niederdorf	upstream1	13 06	124	0.0000%	0.0000%	100							•				NA
Romont	downstream	13 06	124	0.014%	0.014%	100	diazinon	0.011%	diclofenac	0.001%	naproxen	0.001%	claritromycine	0.0002%			NA
Romont	upstream1	13 06	124	0.004%	0.004%	100	diazinon	0.004%									NA
Rothenturm	downstream	13 06	124	0.001%	0.001%	100	diclofenac	0.001%	naproxen	0.0002%							NA
Rothenturm	upstream1	13 06	124	0.0000%	0.0000%	100											NA
Sévery	downstream	13 06	124	0.002%	0.002%	100	carbofuran	0.001%	diuron	0.0005%	diclofenac	0.0005%	terbutylazine	0.0001%			NA
Sévery	upstream1	13 06	124	0.001%	0.001%	100	diuron	0.001%	terbutylazine	0.0001%							NA
Buttisholz	downstream	14 02	36	0.0002%	0.0002%	100	diclofenac	0.0002%	•								NA
Buttisholz	upstream1	14 02	36	0.0001%	0.0001%	100											NA
Colombier	downstream	14 02	36	0.020%	0.020%	100	clothianidine	0.019%	diclofenac	0.001%							NA
Colombier	upstream1	14 02	36	0.023%	0.023%	100	clothianidine	0.022%	isoproturon	0.0001%							NA
Dürnten-Bubikon	downstream	14 02	36	0.032%	0.032%	100	clothianidine	0.021%	diclofenac	0.008%	claritromycine	0.002%	thiamethoxam	0.0005%	terbutrin	0.0003%	NA
Dürnten-Bubikon	upstream1	14 02	36	0.017%	0.017%	100	clothianidine	0.017%	thiamethoxam	0.0003%	terbutrin	0.0001%					NA
Herisau	downstream	14 02	36	0.037%	0.037%	100	diclofenac	0.023%	claritromycine	0.008%	diazinon	0.004%	sulfamethoxazol	0.0003%	terbutrin	0.0002%	NA
Herisau	upstream1	14 02	36	0.0001%	0.0001%	100											NA
Hochdorf	downstream	14 02	36	0.017%	0.017%	100	diclofenac	0.012%	claritromycine	0.002%	diazinon	0.002%	terbutrin	0.0003%			NA
Hochdorf	upstream1	14 02	36	0.013%	0.013%	100	clothianidine	0.012%									NA
Hornussen	downstream	14 02	36	0.017%	0.017%	100	clothianidine	0.012%	diclofenac	0.005%							NA
Hornussen	upstream1	14 02	36	0.011%	0.011%	100	clothianidine	0.011%									NA
Kernenried	downstream	14 02	36	0.129%	0.128%	99	clothianidine	0.093%	diclofenac	0.027%	imidacloprid	0.004%	diazinon	0.002%	claritromycine	0.002%	NA
Kernenried	upstream1	14 02	36	0.100%	0.100%	100	clothianidine	0.099%	isoproturon	0.0001%					,		NA
Messen	downstream	14 02	36	0.086%	0.086%	100	clothianidine	0.082%	diclofenac	0.004%	claritromycine	0.0001%					NA
Messen	upstream1	14 02	36	0.076%	0.076%	100	clothianidine	0.076%									NA
Niederdorf	downstream	14 02	36	0.019%	0.019%	100	clothianidine	0.016%	diclofenac	0.003%							NA
Niederdorf	upstream1	14 02	36	0.018%	0.018%	100	clothianidine	0.018%									NA
Romont	downstream	14 02	36	0.012%	0.012%	100	diclofenac	0.009%	diazinon	0.002%	claritromycine	0.001%					NA
Romont	upstream1	14 02	36	0.0001%	0.0001%	100						2.22.70					NA
Rothenturm	downstream	14 02	36	0.002%	0.002%	100	diclofenac	0.002%									NA
Rothenturm	upstream1	14 02	36	0.0001%		100											NA

SiteName	LMR	Year	n Subst	msPAF	Top5 msPAF	%Tox Top5 Of Total	Name Subst1	PAF Subst1	Name Subst2	PAF Subst2	Name Subst3	PAF Subst3	Name Subst4	PAF Subst4	Name Subst5	PAF Subst5	msPAF - only HeavyMetals
Sévery	downstream	14_02	36	0.019%	0.019%	100	clothianidine	0.013%	diazinon	0.003%	diclofenac	0.001%	claritromycine	0.001%			NA
Sévery	upstream1	14_02	36	0.013%	0.013%	100	clothianidine	0.010%	diazinon	0.003%							NA
Aadorf	downstream	14_03	43	0.485%	0.480%	99	diazinon	0.297%	terbutrin	0.131%	diclofenac	0.027%	diuron	0.019%	thiacloprid	0.007%	0.002%
Aadorf	upstream1	14_03	43	0.001%	0.001%	100	Cr	0.001%	terbutrin	0.0001%							0.001%
Birmensdorf	downstream	14_03	43	0.060%	0.060%	100	diclofenac	0.034%	diazinon	0.013%	imidacloprid	0.005%	terbutrin	0.004%	fipronil	0.001%	0.001%
Birmensdorf	upstream1	14_03	43	0.0004%	0.0004%	100	Cr	0.000%									0.000%
Ellikon	downstream	14_03	43	0.056%	0.056%	100	diclofenac	0.020%	clothianidine	0.019%	diazinon	0.008%	imidacloprid	0.005%	fipronil	0.002%	0.001%
Ellikon	upstream1	14_03	43	0.021%	0.021%	100	clothianidine	0.021%	Cr	0.001%							0.001%
Elgg	downstream	14_03	43	0.027%	0.027%	100	diclofenac	0.020%	diazinon	0.004%	Zn	0.001%	claritromycine	0.001%	Cr	0.001%	0.001%
Elgg	upstream1	14_03	43	0.007%	0.007%	100	imidacloprid	0.006%	Cr	0.001%							0.001%
Knonau	downstream	14_03	43	0.051%	0.051%	100	diclofenac	0.023%	diazinon	0.013%	claritromycine	0.007%	atrazine	0.003%	terbutrin	0.002%	0.000%
Knonau	upstream1	14_03	43	0.009%	0.009%	100	diazinon	0.009%									0.000%
Marthalen	downstream	14_03	43	0.029%	0.029%	100	diclofenac	0.016%	clothianidine	0.009%	fipronil	0.002%	claritromycine	0.001%	sulfamethoxazol	0.001%	0.000%
Marthalen	upstream1	14_03	43	0.0004%	0.0004%	100	Cr	0.0003%									0.000%
Muri	downstream	14_03	43	0.208%	0.182%	87	diclofenac	0.096%	diazinon	0.039%	claritromycine	0.021%	thiacloprid	0.014%	Zn	0.012%	0.012%
Muri	upstream1	14_03	43	0.012%	0.012%	100	clothianidine	0.011%	Cr	0.0002%							0.000%
Reinach	downstream	14_03	43	0.136%	0.133%	98	diazinon	0.073%	diclofenac	0.050%	Ni	0.004%	claritromycine	0.004%	fipronil	0.001%	0.005%
Reinach	upstream1	14_03	43	0.0002%	0.0002%	100	Cr	0.0001%									0.000%
Unterehrendingen	downstream	14_03	43	0.053%	0.053%	100	diclofenac	0.023%	clothianidine	0.018%	diazinon	0.006%	claritromycine	0.003%	Zn	0.001%	0.002%
Unterehrendingen	upstream1	14_03	43	0.019%	0.019%	100	clothianidine	0.019%	Cr	0.0004%							0.000%
Val-De-Ruz	downstream	14_03	43	0.104%	0.100%	96	clothianidine	0.040%	diclofenac	0.030%	diazinon	0.020%	claritromycine	0.007%	fipronil	0.003%	0.000%
Val-De-Ruz	upstream1	14_03	43	0.050%	0.050%	100	clothianidine	0.049%	diclofenac	0.001%	Zn	0.000%					0.000%
Villeret	downstream	14_03	43	0.011%	0.011%	100	diclofenac	0.010%	claritromycine	0.001%							0.000%
Villeret	upstream1	14_03	43	0.0000%	0.0000%	100											0.000%
Zulwil	downstream	14_03	43	0.022%	0.022%	100	diclofenac	0.016%	diazinon	0.005%	fipronil	0.001%	Zn	0.0003%			0.000%
Zulwil	upstream1	14_03	43	0.010%	0.010%	100	diazinon	0.010%									0.000%
Aadorf	downstream	14_05	131	0.059%	0.059%	100	diclofenac	0.020%	clothianidine	0.013%	imidacloprid	0.006%	diazinon	0.006%	naproxen	0.002%	0.002%
Aadorf	upstream1	14_05	131	0.013%	0.013%	100	clothianidine	0.012%	Cr	0.001%	Zn	0.0002%					0.001%
Birmensdorf	downstream	14_05	131	0.070%	0.070%	100	diclofenac	0.028%	diazinon	0.025%	imidacloprid	0.005%	naproxen	0.003%	fipronil	0.002%	0.001%
Birmensdorf	upstream1	14_05	131	0.002%	0.002%	100	diazinon	0.002%	Cr	0.0003%							0.000%
Ellikon	downstream	14_05	131	0.349%	0.334%	96	triflusulfuron-methyl	0.262%	clothianidine	0.028%	diclofenac	0.024%	imidacloprid	0.015%	diazinon	0.006%	0.001%
Ellikon	upstream1	14_05	131	0.326%	0.325%	100	triflusulfuron-methyl	0.286%	clothianidine	0.027%	imidacloprid	0.011%	Cr	0.001%	thiamethoxam	0.0001%	0.001%
Elgg	downstream	14_05	131	0.025%	0.025%	100	diclofenac	0.012%	imidacloprid	0.005%	diazinon	0.002%	Zn	0.001%	diuron	0.001%	0.002%
Elgg	upstream1	14_05	131	0.002%	0.002%	100	diuron	0.001%	Cr	0.001%	Zn	0.0003%					0.001%
Knonau	downstream	14_05	131	0.090%	0.090%	100	diazinon	0.047%	diclofenac	0.018%	naproxen	0.015%	fipronil	0.003%	terbutrin	0.002%	0.000%
Knonau	upstream1	14_05	131	0.014%	0.014%	100	diazinon	0.011%	azoxystrobin	0.002%	terbutrin	0.001%					0.000%
Marthalen	downstream	14_05	131	0.027%	0.027%	100	diclofenac	0.011%	diazinon	0.007%	fipronil	0.005%	imidacloprid	0.002%	naproxen	0.001%	0.001%
Marthalen	upstream1	14_05	131	0.0004%	0.0004%	100	Cr	0.0002%	Ni	0.0001%							0.000%
Muri	downstream	14_05	131	1.596%	1.568%	98	methylchlorpyrifos	0.872%	ethylchlorpyrifos	0.730%	diazinon	0.128%	diclofenac	0.034%	clothianidine	0.015%	0.001%
Muri	upstream1	14_05	131	0.579%	0.578%	100	ethylchlorpyrifos	0.564%	clothianidine	0.015%							0.000%
Reinach	downstream	14_05	131	0.123%	0.114%	93	diazinon	0.043%	diclofenac	0.043%	thiacloprid	0.011%	naproxen	0.010%	claritromycine	0.003%	0.001%
Reinach	upstream1	14_05	131	0.006%	0.006%	100	diazinon	0.006%									0.000%
Unterehrendingen	downstream	14_05	131	0.806%	0.751%	93	triflusulfuron-methyl	0.318%	diazinon	0.267%	irgarol	0.110%	clothianidine	0.034%	diuron	0.023%	0.009%
Unterehrendingen	upstream1	14_05	131	0.325%	0.322%	99	triflusulfuron-methyl	0.270%	clothianidine	0.041%	diazinon	0.005%	Zn	0.003%	imidacloprid	0.003%	0.004%
Val-De-Ruz	downstream	14_05	131	0.126%	0.102%	81	clothianidine	0.046%	terbutrin	0.023%	diazinon	0.014%	fipronil	0.010%	diclofenac	0.010%	0.003%
Val-De-Ruz	upstream1	14_05	131	0.082%	0.082%	100	clothianidine	0.065%	terbutrin	0.009%	isoproturon	0.002%	Zn	0.002%	diuron	0.001%	0.002%
Villeret	downstream	14_05	131	0.007%	0.007%	100	diclofenac	0.005%	Zn	0.001%	naproxen	0.0004%	claritromycine	0.0003%			0.001%
Villeret	upstream1	14_05	131	0.0002%	0.0002%	100	Cr	0.0001%									0.000%
Zulwil	downstream	14_05	131	0.013%	0.013%	100	diclofenac	0.009%	diazinon	0.002%	Zn	0.001%	naproxen	0.001%	terbutrin	0.0001%	0.001%
Zulwil	upstream1	14_05	131	0.001%	0.001%	100	Zn	0.001%	diclofenac	0.0003%							0.001%
Aadorf	downstream	14_07	43	0.032%	0.032%	100	clothianidine	0.017%	diclofenac	0.007%	diazinon	0.004%	imidacloprid	0.001%	Cr	0.001%	0.002%
Aadorf	upstream1	14 07	43	0.017%	0.017%	100	clothianidine	0.016%	Cr	0.001%							0.001%

SiteName	LMR	Year	n Subst	msPAF	Top5 msPAF	%Tox Top5 Of Total	Name Subst1	PAF Subst1	Name Subst2	PAF Subst2	Name Subst3	PAF Subst3	Name Subst4	PAF Subst4	Name Subst5	PAF Subst5	msPAF - only HeavyMetals
Birmensdorf Birmensdorf	downstream upstream1	14_07 14_07	43 43	0.033%	0.033% 0.018%	100 100	clothianidine clothianidine	0.013% 0.012%	thiacloprid thiacloprid	0.009% 0.005%	diclofenac Cr	0.007% 0.0003%	imidacloprid	0.002%	Cr	0.001%	0.002% 0.000%
Ellikon	downstream	14_07	43	0.082%	0.010%	100	clothianidine	0.012%	diazinon	0.003%	imidacloprid	0.0003%	diclofenac	0.011%	terbutylazine	0.006%	0.006%
Ellikon	upstream1	14_07	43	0.048%	0.048%	100	clothianidine	0.027%	terbutylazine	0.007%	imidacloprid	0.004%	thiacloprid	0.003%	diazinon	0.002%	0.002%
lgg	downstream upstream1	14_07 14_07	43 43	0.041%	0.041%	100 100	clothianidine clothianidine	0.022% 0.022%	terbutylazine terbutylazine	0.010%	diclofenac Cr	0.003%	diazinon Ag	0.002% 0.0002%	Zn	0.002%	0.003% 0.001%
Elgg Knonau	downstream	14_07	43	0.034%	0.034%	100	clothianidine	0.022%	diclofenac	0.003%	terbutrin	0.001%	Cr	0.0002%	Zn	0.0003%	0.001%
Knonau	upstream1	14_07	43	0.014%	0.014%	100	clothianidine	0.012%	Cr	0.001%	diuron	0.0002%	terbutrin	0.0002%	terbutylazine	0.0001%	0.001%
Marthalen	downstream		43	0.052%	0.052%	100	diclofenac	0.015%	fipronil	0.013%	diazinon	0.012%	imidacloprid	0.003%	dimethoaat	0.001%	0.001%
Marthalen Muri	upstream1 downstream	14_07 14_07	43 43	0.003%	0.003%	100 96	dimethoaat diazinon	0.002%	terbutylazine dimethoaat	0.001% 0.076%	Cr clothianidine	0.000%	Cd diclofenac	0.0002%	Ni isoproturon	0.0001% 0.003%	0.001%
Muri	upstream1	14_07	43	0.028%	0.028%	100	clothianidine	0.026%	Cr	0.001%	Cd	0.0002%	thiamethoxam	0.0001%	isoproturon	0.00070	0.001%
Reinach	downstream	14_07	43	0.030%	0.030%	100	diclofenac	0.013%	clothianidine	0.009%	diazinon	0.003%	Zn	0.002%	terbutrin	0.001%	0.003%
Reinach	upstream1	14_07	43	0.011%	0.011%	100	clothianidine	0.009%	Cr	0.001%	terbutrin	0.001%	Zn	0.001%	Ni	0.0001%	0.001%
Unterehrendingen Unterehrendingen	downstream upstream1	14_07 14_07	43 43	0.133% 0.016%	0.103%	77 100	diuron clothianidine	0.035% 0.012%	diclofenac terbutrin	0.027% 0.001%	clothianidine Cr	0.018%	diazinon diuron	0.016% 0.0003%	thiacloprid dimethoaat	0.008%	0.006% 0.001%
Val-De-Ruz	downstream	14 07	43	0.528%	0.445%	84	diazinon	0.252%	diclofenac	0.063%	Ni	0.058%	Zn	0.048%	fipronil	0.0052%	0.106%
Val-De-Ruz	upstream1	14_07	43	0.023%	0.023%	100	clothianidine	0.020%	diazinon	0.002%	Zn	0.001%	terbutrin	0.0002%		0.0001%	0.001%
Villeret	downstream	14_07	43	0.029%	0.029%	100	diclofenac	0.015%	Zn	0.005%	diazinon	0.004%	fipronil	0.001%	claritromycine	0.001%	0.006%
Villeret Zulwil	upstream1 downstream	14_07 14_07	43 43	0.007%	0.007%	100 98	clothianidine diazinon	0.006%	Zn diclofenac	0.001%	Zn	0.011%	imidacloprid	0.004%	pirimicarb	0.003%	0.001%
Zulwil	upstream1	14 07	43	0.001%	0.001%	100	Ni	0.0004%	Zn	0.0003%	Cd	0.0003%	Cr	0.0002%	terbutrin	0.0002%	0.001%
Aadorf	downstream		43	0.185%	0.172%	93	diazinon	0.104%	diclofenac	0.042%	diuron	0.015%	imidacloprid	0.006%	thiacloprid	0.005%	0.004%
Aadorf	upstream1	14_09	43	0.0003%	0.0003%	100	Cr	0.000%							_		0.000%
Birmensdorf Birmensdorf	downstream upstream1	14_09 14_09	43 43	0.040%	0.040%	100 100	diclofenac imidacloprid	0.018%	diazinon Cr	0.008%	imidacloprid thiamethoxam	0.006%	claritromycine Cd	0.002% 0.0001%	Zn	0.001%	0.002% 0.001%
Ellikon	downstream		43	0.005%	0.005%	100	diclofenac	0.004%	imidacloprid	0.001%	diazinon	0.0002%	Zn	0.0001%	Cr	0.001%	0.001%
Ellikon	upstream1	14_09	43	0.001%	0.001%	100	Cr	0.0005%		0.0001%							0.001%
Elgg	downstream		43	0.041%	0.041%	100	diclofenac	0.027%	imidacloprid	0.006%	sulfamethoxazol	0.003%	diazinon	0.003%	Cr	0.001%	0.002%
Elgg Knonau	upstream1 downstream	14_09 14_09	43 43	0.0003%	0.0003%	100 100	diclofenac	0.006%	diazinon	0.004%	terbutrin	0.002%	Zn	0.001%	sulfamethoxazol	0.0005%	0.000% 0.001%
Knonau	upstream1	14_09	43	0.001%	0.001%	100	terbutrin	0.0002%	terbutylazine	0.0002%	Cr	0.002%	-11	0.00170	Sanamothoxa20I	0.0000%	0.001%
Marthalen	downstream	14_09	43	0.027%	0.027%	100	diclofenac	0.013%	imidacloprid	0.004%	diazinon	0.003%	fipronil	0.001%	terbutrin	0.001%	0.001%
Marthalen	upstream1	14_09	43	0.0004%	0.0004%	100	Cr	0.0001%	at a decidence of	0.000	all and a	0.000	testale 4 11	0.000	7.	0.000	0.000%
Muri Muri	downstream upstream1	14_09 14_09	43 43	0.045%	0.045%	100 100	diclofenac Cr	0.019%	claritromycine thiamethoxam	0.006% 0.0003%	diazinon Ni	0.006% 0.0001%	imidacloprid	0.003%	Zn	0.003%	0.004% 0.001%
Reinach	downstream	14_09	43	0.062%	0.062%	100	diclofenac	0.033%	diazinon	0.0003%	terbutrin	0.007%	Zn	0.005%	claritromycine	0.004%	0.005%
Reinach	upstream1	14_09	43	0.003%	0.003%	100	terbutrin	0.002%	Cr	0.0002%	Ni	0.0002%			,		0.000%
Unterehrendingen	downstream		43	0.094%	0.094%	100	diclofenac	0.049%	diazinon	0.017%	terbutrin	0.010%	imidacloprid	0.006%	claritromycine	0.004%	0.002%
Unterehrendingen Val-De-Ruz	upstream1 downstream	14_09 14_09	43 43	0.001%	0.001%	100 75	Cr diclofenac	0.001%	clothianidine	0.032%	diazinon	0.027%	Zn	0.023%	alaritramyaina	0.014%	0.001% 0.031%
Val-De-Ruz	upstream1	14_09	43	0.051%	0.051%	100	clothianidine	0.050%	Zn	0.001%	ulazilion	0.02176	211	0.02376	claritromycine	0.01478	0.001%
Villeret	downstream	14_09	43	0.027%	0.027%	100	diclofenac	0.019%	diazinon	0.004%	Zn	0.002%	fipronil	0.001%	claritromycine	0.0004%	0.002%
Villeret	upstream1	14_09	43	0.001%	0.001%	100	Ni	0.0004%	Zn	0.0001%							0.001%
Zulwil Zulwil	downstream upstream1	14_09 14_09	43 43	0.030%	0.030%	100 100	diclofenac Ni	0.013%	claritromycine Cd	0.004%	diazinon Cr	0.003%	imidacloprid	0.003%	Zn	0.002%	0.003%
Aadorf	downstream		43	0.206%	0.003%	95	thiacloprid	0.002%	diclofenac	0.0001%	diazinon	0.022%	imidacloprid	0.013%	diuron	0.005%	0.002%
Aadorf	upstream1	14_11	43	0.001%	0.001%	100	dimethoaat	0.001%	terbutrin	0.0001%							0.000%
Birmensdorf	downstream	14_11	43	0.029%	0.029%	100	diclofenac	0.023%	claritromycine	0.002%	Cr	0.001%	Zn	0.001%	sulfamethoxazol	0.0004%	0.002%
Birmensdorf Ellikon	upstream1 downstream	14_11 14_11	43 43	0.001%	0.001%	100 100	Cr diclofenac	0.001% 0.042%	imidacloprid	0.006%	claritromycine	0.003%	diazinon	0.003%	Zn	0.003%	0.001% 0.003%
Ellikon												0.003%					0.003%
	upstream1	14_11	43	0.001%	0.003%	100	Cr	0.001%	isoproturon	0.0003%	,			0.00070			0.001%
SiteName	upstream1		n Subst			%Tox Top5 Of					Name Subst3	PAF Subst3	Name Subst4	PAF Subst4	Name Subst5	PAF Subst5	msPAF - only
SiteName	LMR	14_11 Year	n Subst	0.001%	0.001% Top5 msPAF	%Tox Top5 Of Total	Cr Name Subst1	0.001% PAF Subst1	Name Subst2	0.0003% PAF Subst2	Name Subst3	Subst3	Name Subst4	PAF Subst4	Subst5	PAF Subst5	msPAF - only HeavyMetals
SiteName Elgg		14_11 Year	n	0.001%	0.001% Top5	%Tox Top5 Of	Cr	0.001% PAF	isoproturon	0.0003% PAF	Name		Name	PAF		PAF Subst5	msPAF - only
SiteName Elgg Elgg Knonau	LMR downstream upstream1 downstream	14_11 Year 14_11 14_11 14_11	n Subst 43 43 43	0.001% msPAF 0.150% 0.001% 0.032%	0.001% Top5 msPAF 0.142% 0.001% 0.032%	%Tox Top5 Of Total 95 100 100	Name Subst1 diclofenac Cr diclofenac	0.001% PAF Subst1 0.082% 0.001% 0.013%	Name Subst2	0.0003% PAF Subst2 0.049%	Name Subst3	Subst3	Name Subst4	PAF Subst4	Subst5	PAF Subst5	msPAF - only HeavyMetals 0.003% 0.001% 0.001%
SiteName Elgg Elgg Knonau Knonau	LMR downstream upstream1 downstream upstream1	Year 14_11 14_11 14_11 14_11	n Subst 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004%	%Tox Top5 Of Total 95 100 100	Name Subst1 diclofenac Cr diclofenac Cr Cr Cr diclofenac Cr	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003%	Name Subst2 diazinon diclofenac terbutrin	0.0003% PAF Subst2 0.049% 0.0001% 0.010%	Name Subst3 imidacloprid claritromycine	0.006% 0.004%	Name Subst4 diuron sulfamethoxazol	PAF Subst4 0.003% 0.002%	Subst5 sulfamethoxazol Zn	PAF Subst5 0.002% 0.001%	msPAF - only HeavyMetals 0.003% 0.001% 0.001% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen	LMR downstream upstream1 downstream upstream1 downstream	Year 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.136%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004% 0.130%	%Tox Top5 Of Total 95 100 100 100 95	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003% 0.066%	Name Subst2	PAF Subst2 0.049% 0.0001%	Name Subst3 imidacloprid	Subst3 0.006%	Name Subst4 diuron	PAF Subst4 0.003%	Subst5 sulfamethoxazol	PAF Subst5 0.002%	msPAF - only HeavyMetal: 0.003% 0.001% 0.000% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen	LMR downstream upstream1 downstream upstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004%	%Tox Top5 Of Total 95 100 100	Name Subst1 diclofenac Cr diclofenac Cr Cr Cr diclofenac Cr	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003%	Name Subst2 diazinon diclofenac terbutrin	0.0003% PAF Subst2 0.049% 0.0001% 0.010%	Name Subst3 imidacloprid claritromycine fipronil	0.006% 0.004%	Name Subst4 diuron sulfamethoxazol	PAF Subst4 0.003% 0.002%	Subst5 sulfamethoxazol Zn	PAF Subst5 0.002% 0.001%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri	LMR downstream upstream1 downstream upstream1 downstream upstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.136% 0.0003%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004% 0.130% 0.0003%	%Tox Top5 Of Total 95 100 100 95 100	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003% 0.066% 0.0001%	Name Subst2 diazinon diclofenac terbutrin dimethoaat	PAF Subst2 0.049% 0.0001% 0.010% 0.029%	Name Subst3 imidacloprid claritromycine	0.006% 0.004% 0.012%	Name Subst4 diuron sulfamethoxazol diazinon	PAF Subst4 0.003% 0.002% 0.012%	Subst5 sulfamethoxazol Zn imidacloprid	PAF Subst5 0.002% 0.001% 0.008%	msPAF - only HeavyMetals 0.003% 0.001% 0.001% 0.000% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Muri Muri Reinach	LMR downstream upstream1 downstream upstream1 downstream upstream1 downstream downstream upstream1 downstream	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.136% 0.0003% 0.0001% 0.0051% 0.0001% 0.036%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004% 0.130% 0.0051% 0.0001% 0.0001%	%Tox Top5 Of Total 95 100 100 95 100 100 95 100 100 100	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac diclofenac diclofenac	PAF Subst1 0.082% 0.001% 0.003% 0.0003% 0.066% 0.0001% 0.039%	Name Subst2 diazinon diclofenac terbutrin dimethoaat	PAF Subst2 0.049% 0.0001% 0.010% 0.029%	Name Subst3 imidacloprid claritromycine fipronil	0.006% 0.004% 0.012%	Name Subst4 diuron sulfamethoxazol diazinon	PAF Subst4 0.003% 0.002% 0.012%	Subst5 sulfamethoxazol Zn imidacloprid	PAF Subst5 0.002% 0.001% 0.008%	msPAF - only HeavyMetal: 0.003% 0.001% 0.001% 0.000% 0.000% 0.006% 0.000% 0.000% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Reinach Reinach	LMR downstream upstream1 downstream upstream1 downstream upstream1 downstream upstream1	14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.0304% 0.0003% 0.051% 0.00019 0.00019 0.036% 0.0003%	0.001% Top5 msPAF 0.142% 0.001% 0.030% 0.130% 0.0003% 0.051% 0.0001% 0.0003% 0.003%	%Tox Top5 Of Total 95 100 100 100 95 100 100 100 100 100	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr Cr	PAF Subst1 0.082% 0.001% 0.0033% 0.066% 0.0001% 0.039% 0.028% 0.028%	Name Subst2 diazinon diciofenac terbutrin dimethoaat Zn claritromycine	PAF Subst2 0.049% 0.0001% 0.010% 0.029% 0.006%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon	0.006% 0.004% 0.012% 0.003% 0.002%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin	PAF Subst5 0.002% 0.001% 0.008% 0.0005%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Muri Kuri Reinach Keinach	LMR downstream upstream1 downstream upstream1 downstream upstream1 downstream downstream upstream1 downstream	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.136% 0.0003% 0.0001% 0.0051% 0.0001% 0.036%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004% 0.130% 0.0051% 0.0001% 0.0001%	%Tox Top5 Of Total 95 100 100 95 100 100 95 100 100 100	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac diclofenac diclofenac	PAF Subst1 0.082% 0.001% 0.003% 0.0003% 0.066% 0.0001% 0.039%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn	0.0003% PAF Subst2 0.049% 0.0001% 0.010% 0.029% 0.006%	Name Subst3 imidacloprid claritromycine fipronil claritromycine	0.006% 0.004% 0.012% 0.003%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin	PAF Subst4 0.003% 0.002% 0.012% 0.002%	Subst5 sulfamethoxazol Zn imidacloprid Cr	PAF Subst5 0.002% 0.001% 0.008%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.000% 0.006% 0.006% 0.000% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Mur Mur Reinach Teinach Teinach Teinach Teinach Teinach Teinach	LMR downstream upstream1 downstream upstream1 downstream upstream1 downstream upstream1 downstream upstream1 downstream	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.136% 0.0003% 0.051% 0.0003% 0.0003% 0.103% 0.013% 0.013%	Top5 msPAF 0.142% 0.001% 0.032% 0.0003% 0.051% 0.0003% 0.0003% 0.002% 0.0003% 0.150%	%Tox Top5 Of Total 95 100 100 95 100 100 100 100 100 100 100 90 100 88	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac diclofenac Cr diclofenac	PAF Subst1 0.082% 0.001% 0.003% 0.0001% 0.0001% 0.028% 0.0028% 0.052% 0.052% 0.052% 0.055%	Name Subst2 diazinon diciofenac terbutrin dimethoaat Zn claritromycine Zn	PAF Subst2 0.049% 0.0001% 0.010% 0.0029% 0.006% 0.003% 0.0016% 0.0005% 0.0041%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon	0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.0004% 0.029%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin	PAF Subst5 0.002% 0.001% 0.008% 0.0005%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.000% 0.002% 0.002% 0.017% 0.005% 0.005%
SiteName Elgg Elgg Innonau Knonau Knonau Knonau Knonau Knonau Karthalen Muri Muri Reinach Reinach Juterehrendingen Juterehrendingen Jal-De-Ruz	LMR downstream upstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	msPAF 0.150% 0.001% 0.032% 0.0004% 0.136% 0.0001% 0.0051% 0.0056% 0.0003% 0.103% 0.006% 0.172% 0.172%	Top5 msPAF 0.142% 0.001% 0.032% 0.0004% 0.130% 0.0001% 0.051% 0.0001% 0.0036% 0.0003% 0.0008% 0.000%	%Tox Top5 Of Total 95 100 100 95 100 100 100 100 100 100 100 100 88 88 100	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac diclofenac diclofenac Cr diclofenac cr diclofenac cr diclofenac cotidianidine	PAF Subst1 0.082% 0.001% 0.013% 0.066% 0.0003% 0.039% 0.052% 0.0052% 0.005% 0.005%	Name Subst2 diazinon diciofenac terbutrin dimethoaat Zn Cr clothianidine Zn	PAF Subst2 0.049% 0.0001% 0.010% 0.003% 0.006% 0.006% 0.006% 0.006%	Name Subst3 imidacioprid claritromycine fipronil claritromycine diazinon diazinon diuron Zn Cr	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.0004% 0.0029% 0.0003%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.000% 0.006% 0.000% 0.002% 0.000% 0.017% 0.005% 0.005%
SiteName Elgg Igg Knonau Knonau Marthalen Marthalen Muri Reinach Reinach Jhterehrendingen /al-De-Ruz /al-De-Ruz	LMR downstream upstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.0003% 0.051% 0.0003% 0.0006% 0.172% 0.066% 0.065% 0.065% 0.052%	Top5 msPAF 0.001% 0.032% 0.0004% 0.130% 0.0003% 0.061% 0.0003% 0.002% 0.0003% 0.005%	%Tox Top5 Of Total 95 100 100 100 95 100 100 100 100 100 100 90 100 88 100	Name Subst1 diclofenac Cr diclofenac	PAF Subst1 0.082% 0.001% 0.0003% 0.066% 0.0003% 0.028% 0.0025% 0.052% 0.055% 0.057% 0.062%	Name Subst2 diazinon diclofenac terbuttin dimethoaat Zn claritromycine Zn Cr clothianidine Zn	PAF Subst2 0.049% 0.0001% 0.010% 0.029% 0.006% 0.003% 0.016% 0.0005% 0.041% 0.002%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diuron Zn	0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.0004% 0.029%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.000% 0.000% 0.002% 0.000% 0.017% 0.000% 0.005% 0.000% 0.0005% 0.0005%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Reinach	LMR downstream upstream1 downstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.036% 0.0003% 0.003% 0.103% 0.006% 0.006% 0.006% 0.032% 0.001%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0003% 0.0051% 0.0003% 0.092% 0.0065% 0.055% 0.035% 0.005%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 88 100 100	Name Subst1 diclofenac Cr diclofenac Zn diclofenac Cn diclofenac Zn	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.066% 0.0001% 0.028% 0.002% 0.052% 0.057% 0.062% 0.018%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr colothianidine Zn Zn Cd	PAF Subst2 0.049% 0.0001% 0.010% 0.006% 0.003% 0.006% 0.0041% 0.002% 0.006%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diuron Zn Cr diazinon	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.0004% 0.029% 0.0003% 0.004%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007% 0.015%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.001% 0.000% 0.000% 0.000% 0.002% 0.002% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005%
SiteName Elgg Igg Inonau Inonau Inonau Inonau Inonau Inonau Inonau Inarhalen Inarhalen Induri Idelinach Idelinach Interehrendingen Interehrendingen Idel-De-Ruz Idel-De-Ruz Idel-Teret Ideret Ideret Ideret Ideret Ideret	LMR downstream upstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.0003% 0.051% 0.0003% 0.0006% 0.172% 0.066% 0.065% 0.065% 0.052%	Top5 msPAF 0.001% 0.032% 0.0004% 0.130% 0.0003% 0.061% 0.0003% 0.002% 0.0003% 0.005%	%Tox Top5 Of Total 95 100 100 100 95 100 100 100 100 100 100 90 100 88 100	Name Subst1 diclofenac Cr diclofenac	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003% 0.0001% 0.039% 0.028% 0.002% 0.052% 0.002% 0.057% 0.062% 0.017% 0.0003%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr colothianidine Zn Zn Cd Zn Cd Zn Cr	PAF Subst2 0.049% 0.0001% 0.010% 0.029% 0.006% 0.003% 0.016% 0.0005% 0.041% 0.002%	Name Subst3 imidacioprid claritromycine fipronil claritromycine diazinon diazinon diuron Zn Cr	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.0004% 0.0029% 0.0003%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.000% 0.000% 0.006% 0.002% 0.000% 0.017% 0.005% 0.005% 0.005% 0.0005%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Muri Reinach Reinach Reinach Val-De-Ruz Val-De-Ruz Villeret Utlieret Luiwil Zulwil Aadorf	downstream upstream1 downstream	Year 14_11	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.002% 0.0004% 0.136% 0.0001% 0.0065% 0.0024% 0.001% 0.001%	0.001% Top5 msPAF 0.142% 0.001% 0.002% 0.0003% 0.051% 0.0003% 0.0001% 0.006% 0.005% 0.002% 0.006% 0.002% 0.001% 0.001%	%Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac diclofenac diclofenac Zn	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003% 0.0001% 0.039% 0.002% 0.005% 0.005% 0.005% 0.017% 0.0004% 0.0004% 0.0004%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr clothianidine Zn Cd Zn Cr clothianidine Zn Cr clothianidine	0.0003% PAF Subst2 0.049% 0.0001% 0.0029% 0.006% 0.003% 0.016% 0.002% 0.005% 0.005% 0.005% 0.0002%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon claritromycine claritromycine dicione claritromycine dicione claritromycine diciofenac	Subst3 0.006% 0.004% 0.012% 0.002% 0.011% 0.002% 0.002% 0.0003% 0.002% 0.003%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007% 0.015% 0.002% 0.0003%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004%	msPAF - on/Metal 0.003% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Muri Reinach Reinach Reinach Julieret J	downstream upstream!	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0004% 0.0023% 0.0001% 0.0066% 0.0006% 0.0065% 0.001% 0.004% 0.001% 0.006%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0003% 0.0003% 0.0003% 0.0063% 0.0063% 0.0065% 0.150% 0.0065% 0.000% 0.0065% 0.001%	%Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0039% 0.0002% 0.052% 0.052% 0.057% 0.065% 0.017% 0.0003% 0.017% 0.0017%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cd Cd Zn Cd Cd Zn Cr clothianidine Zn Cd Zn Cr clothianidine Ni	PAF Subst2 0.049% 0.0001% 0.0005% 0.005% 0.005% 0.0005% 0.0005% 0.0005% 0.0005% 0.0003% 0.0005% 0.0003% 0.0003%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon diazinon claritromycine diazinon claritromycine diclofenac Cr	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.0004% 0.002% 0.003% 0.004% 0.002% 0.0013% 0.001%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn	PAF Subst4 0.003% 0.002% 0.012% 0.001% 0.001% 0.005% 0.002% 0.0003%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn	PAF Subst5 0.002% 0.001% 0.008% 0.001% 0.004% 0.008% 0.0002% 0.0002%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.002% 0.000% 0.002% 0.002% 0.002%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Reinach Reinach Interehrendingen Juherberkerdingen Jul-De-Ruz Val-De-Ruz Julieret Zulwil Zulwil Zulwil Zulwil Zulwil Zulwil	downstream upstream! downstream downstream downstream upstream!	Year 14_11 4_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.002% 0.0004% 0.003% 0.051% 0.0003% 0.051% 0.006% 0.0003% 0.001% 0.0024% 0.006% 0.001% 0.001% 0.001% 0.001%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0004% 0.150% 0.0003% 0.0003% 0.006% 0.002% 0.006% 0.002% 0.006% 0.01% 0.001% 0.001% 0.001%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.0003% 0.068% 0.0028% 0.0052% 0.052% 0.018% 0.002% 0.017% 0.0017% 0.0017% 0.0017%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr clothianidine Zn Cr clothianidine Zn Cr clothianidine Ni diclofenac	0.0003% PAF Subst2 0.049% 0.001% 0.0029% 0.006% 0.003% 0.016% 0.0003% 0.005% 0.005% 0.0005% 0.005%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon claritromycine dicioren Zn Cr diazinon claritromycine diciofenac Cr Zn	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.0011% 0.0004% 0.0029% 0.0003% 0.0004% 0.002% 0.0013% 0.0013% 0.0013% 0.0015%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.0015% 0.002% 0.0003% 0.008% 0.0002%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004% 0.0004%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.001% 0.000%
SiteName ilgg lgg chonau chonau flarhalen flarthalen flarthalen flarthalen flarthalen fluri fleinach	downstream upstream!	Year 14_11 4_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.020% 0.0003% 0.0051% 0.0003% 0.103% 0.0063% 0.0063% 0.001% 0.001% 0.001% 0.001% 0.001% 0.005% 0.001%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0003% 0.0003% 0.0003% 0.0063% 0.0063% 0.0065% 0.150% 0.0065% 0.000% 0.0065% 0.001%	%Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn diclofenac Zn diclofenac Zn diclofenac Zn diclofenac Zn diuron clothianidine pirimicarb Ni	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.006% 0.0003% 0.052% 0.005% 0.002% 0.005% 0.007% 0.002% 0.017% 0.0017% 0.0017% 0.0013%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cd Cd Zn Cd Cd Zn Cr clothianidine Zn Cd Zn Cr clothianidine Ni	PAF Subst2 0.049% 0.0001% 0.0005% 0.0005% 0.0005% 0.0005% 0.0005% 0.0005% 0.0005% 0.0005% 0.0005% 0.0018%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon diazinon claritromycine diazinon claritromycine diclofenac Cr	Subst3 0.006% 0.004% 0.012% 0.002% 0.011% 0.002% 0.003% 0.004% 0.002% 0.003% 0.0013% 0.001% 0.001%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn	PAF Subst4 0.003% 0.002% 0.012% 0.001% 0.001% 0.005% 0.002% 0.0003% 0.0002% 0.0002%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni	PAF Subst5 0.002% 0.001% 0.008% 0.001% 0.004% 0.008% 0.0004% 0.0002% 0.0005%	msPAF - only HeavyMeta 0.003% 0.001% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.000% 0.002% 0.002% 0.002% 0.002% 0.005% 0.005% 0.005%
SiteName Elgg Elgg Innonau In	downstream upstream!	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.002% 0.0004% 0.003% 0.051% 0.0003% 0.051% 0.006% 0.0003% 0.001% 0.0024% 0.006% 0.001% 0.001% 0.001% 0.001%	0.001% Top5 msPAF 0.142% 0.001% 0.0304% 0.130% 0.051% 0.0003% 0.061% 0.0003% 0.001% 0.0005% 0.005% 0.001% 0.005% 0.001% 0.005% 0.005%	%Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn	0.001% PAF Subst1 0.082% 0.013% 0.003% 0.066% 0.0039% 0.052% 0.052% 0.052% 0.005% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.003% 0.004% 0.003% 0.004% 0.004% 0.004%	Name Subst2 diazinon diclofenac terbuttin dimethoaat Zn claritromycine Zn Cr clothianidine Zn Zn Cd Cd Zn Cr clothianidine Xn Cr Cr Cr Cr Cr Cr Cr Cr Cr C	0.0003% PAF Subst2 0.049% 0.001% 0.0029% 0.006% 0.003% 0.016% 0.0003% 0.005% 0.005% 0.0005% 0.005%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diuron Zn Cr diazinon claritromycine diclofenac Cr Zn Zn	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.0011% 0.0004% 0.0029% 0.0003% 0.0004% 0.002% 0.0013% 0.0013% 0.0013% 0.0015%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn	PAF Subst4 0.003% 0.002% 0.012% 0.001% 0.001% 0.005% 0.002% 0.0003% 0.0002% 0.0002%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr	PAF Subst5 0.002% 0.001% 0.008% 0.001% 0.004% 0.008% 0.0002% 0.0002%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000% 0.000%
SiteName Elgg Igg Knonau Knonau Marthalen Muri Muri Muri Muri Muri Muri Aleinach Reinach	downstream upstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.001% 0.0003% 0.061% 0.0003% 0.006% 0.0008% 0.002% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0003% 0.003% 0.005% 0.005% 0.005% 0.005% 0.005% 0.052% 0.005% 0.055% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac diclofenac Cr diclofenac diclofenac Zn diclofenac clothianidine diclofenac Zn diclofenac clothianidine diclofenac Zn diuron clothianidine pirimicarb Ni clothianidine clothianidine clothianidine	0.001% PAF Subst1 0.062% 0.001% 0.003% 0.0004% 0.0002% 0.052% 0.052% 0.017% 0.017% 0.017% 0.011% 0.003% 0.017% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003%	Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn Cr clothianidine Zn Cd Zn Cr cd Ct Cr cd Ct Ni Ni Ni Ni	PAF Subst2 0.049% 0.0001% 0.010% 0.006% 0.003% 0.006% 0.003% 0.005% 0.0003% 0.005% 0.0003% 0.018% 0.0008% 0.0008% 0.0009%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon cr diazinon claritromycine diclofenac Cr Zn diazinon claritromycine diclofenac Cr Zn Zn diclofenac Cr Zn Zn diclofenac Cr Zn	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.002% 0.003% 0.004% 0.002% 0.0013% 0.005% 0.005% 0.005%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn claritromycine	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.005% 0.002% 0.002% 0.002% 0.002% 0.002% 0.002% 0.002% 0.002%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr Cd Cr	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004% 0.0002% 0.005% 0.003% 0.001% 0.001%	msPAF - only - o
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Marthalen Muri Reinach R	downstream upstream!	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.0004% 0.138% 0.051% 0.0003% 0.051% 0.0003% 0.0001% 0.0003% 0.0018% 0.006%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.051% 0.0003% 0.051% 0.003% 0.055% 0.001% 0.005% 0.018% 0.004% 0.065% 0.018% 0.065% 0.018%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn diclofenac Zn diclofenac Zn diclofenac Zn diclofenac Ni ciclofenac Zn diclofenac Clothianidine diclofenac clothianidine	0.001% PAF Subst1 0.082% 0.001% 0.003% 0.066% 0.003% 0.022% 0.052% 0.052% 0.057% 0.0062% 0.011% 0.001% 0.011% 0.003% 0.003% 0.004% 0.003% 0.003% 0.004% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003% 0.003%	isoproturon Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr crotothianidine Zn Cd Zn Cr cotothianidine Zn Cr Cr cotothianidine Zn Cr	0.0003% PAF Subst2 0.049% 0.001% 0.000% 0.006% 0.006% 0.0041% 0.0006% 0.0006% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005% 0.005%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon diazinon claritromycine diciofenac Cr Zn Zn Zn Zn Zn Cr Zn Cr	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.002% 0.004% 0.002% 0.001% 0.001% 0.001% 0.002%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn claritromycine Cd Zn claritromycine Zn	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007% 0.005% 0.002% 0.0002% 0.0002% 0.0002% 0.0002% 0.0002% 0.001%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr Cd Cr dicofornac	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.004% 0.008% 0.002% 0.005% 0.003% 0.001% 0.0003% 0.001%	msPAF - only HeavyMetal 0 003% 0 001% 0 001% 0 001% 0 000%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Muri Reinach R	downstream upstream!	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.001% 0.0003% 0.051% 0.0003% 0.006% 0.0006% 0.0006% 0.001% 0.001% 0.005% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.001% 0.006% 0.001% 0.006% 0.001% 0.001% 0.006% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001% 0.001%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.0003% 0.0001% 0.0051% 0.0003% 0.092% 0.005% 0.002% 0.006% 0.050% 0.050% 0.050% 0.050% 0.050% 0.050% 0.050% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006% 0.006%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Cr Name Subst1 diclofenac Cr diclofenac Zn diclofenac clothianidine clothianidine clothianidine clothianidine clothianidine diclofenac clothianidine	0.001% PAF Subst1 0.062% 0.001% 0.003% 0.0003% 0.002% 0.002% 0.052% 0.052% 0.016% 0.003% 0.017% 0.003% 0.017% 0.003% 0.017% 0.013% 0.013% 0.013%	isoproturon Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr clothianidine Zn Cd Zn Cr clothianidine Ni Ni Ni Ni Ni Zn	0.0003% PAF Subst2 0.049% 0.0001% 0.010% 0.006% 0.006% 0.006% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.007% 0.008% 0.009% 0.009% 0.009% 0.009% 0.009%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon claritromycine dictorenac Cr Zn Zn dictorenac Cr Zn Zn Cr Zn	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.011% 0.002% 0.003% 0.002% 0.001% 0.005% 0.005% 0.005% 0.005% 0.001% 0.005%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn claritromycine	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007% 0.005% 0.002% 0.0002% 0.0002% 0.0002% 0.0002% 0.0002% 0.001%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr Cd Cr	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.001% 0.004% 0.0002% 0.005% 0.003% 0.001% 0.001%	msPAF - only - o
SiteName Elgg Elgg Ichonau Ichonau Ichonau Idarhalen Id	downstream upstream!	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.0004% 0.138% 0.051% 0.0003% 0.051% 0.0003% 0.0001% 0.0003% 0.0018% 0.006%	0.001% Top5 msPAF 0.142% 0.001% 0.0024% 0.0003% 0.051% 0.003% 0.051% 0.0003% 0.005% 0.001% 0.005% 0.018% 0.004% 0.006%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn diclofenac Zn diclofenac Zn diclofenac Zn diclofenac Ni ciclofenac Zn diclofenac Clothianidine diclofenac clothianidine	0.001% PAF Subst1 0.082% 0.011% 0.013% 0.006% 0.0003% 0.006% 0.002% 0.052% 0.057% 0.006% 0.018% 0.001% 0.011% 0.001% 0.011% 0.010% 0.010% 0.013% 0.052% 0.013% 0.053% 0.053% 0.053% 0.013%	isoproturon Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr crotothianidine Zn Cd Zn Cr cotothianidine Zn Cr Cr cotothianidine Zn Cr	0.0003% PAF Subst2 0.049% 0.0019% 0.010% 0.006% 0.005% 0.041% 0.005% 0.005% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.005% 0.003% 0.005% 0.003% 0.005% 0.003% 0.005% 0.003% 0.005%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon diazinon claritromycine diciofenac Cr Zn Zn Zn Zn Zn Cr Zn Cr	Subst3 0.006% 0.004% 0.002% 0.0011% 0.002% 0.002% 0.003% 0.002% 0.001% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn claritromycine Cd Zn claritromycine Zn	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.007% 0.005% 0.002% 0.0002% 0.0002% 0.001% 0.001% 0.001% 0.0002%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr Cd Cr diclofenac Cr	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.004% 0.008% 0.0002% 0.005% 0.003% 0.001% 0.0003% 0.001%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.001% 0.000%
SiteName Elgg Elgg Knonau Knonau Marthalen Marthalen Muri Muri Muri Reinach R	downstream upstream1 downstream1	Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	msPAF 0.150% 0.001% 0.001% 0.0032% 0.0003% 0.051% 0.0003% 0.001% 0.0024% 0.001% 0.0065% 0.018% 0.006% 0.018% 0.006%	0.001% Top5 msPAF 0.142% 0.001% 0.032% 0.051% 0.0003% 0.051% 0.0003% 0.050% 0.150% 0.001% 0.003% 0.001% 0.003% 0.001% 0.003% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005%	100 %Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Cr Name Subst1 diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Cr diclofenac Zn diclofenac diclofenac diclofenac diclofenac diclofenac diclofenac diclofenac diclofenac diclofenac Zn	0.001% PAF Subst1 0.062% 0.001% 0.003% 0.0003% 0.002% 0.002% 0.052% 0.052% 0.016% 0.003% 0.017% 0.003% 0.017% 0.003% 0.017% 0.013% 0.013% 0.013%	isoproturon Name Subst2 diazinon diclofenac terbutrin dimethoaat Zn claritromycine Zn Cr clothianidine Zn Cr cotothianidine Zn Cr	0.0003% PAF Subst2 0.049% 0.0001% 0.010% 0.006% 0.006% 0.006% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.007% 0.008% 0.009% 0.009% 0.009% 0.009% 0.009%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon claritromycine diciofenac Cr Zn	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.0011% 0.002% 0.003% 0.004% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.001% 0.005% 0.000% 0.000%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn Zn claritromycine Car claritromycine	PAF Subst4 0.003% 0.002% 0.012% 0.002% 0.001% 0.005% 0.002% 0.0002% 0.0002% 0.001% 0.0002% 0.0002% 0.0002%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr Cd Cr diclofenac Cr claritromycine	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.004% 0.008% 0.0004% 0.0002% 0.005% 0.003% 0.001% 0.0003% 0.001%	msPAF - only HeavyMetal 0.003% 0.001% 0.001% 0.001% 0.000% 0.005%
SiteName Eigg Eigg Snonau Gnonau Gnonau Marthalen Murl Murl Murl Murl Meinach Reinach Reinach Meinach	downstream upstream!	Year Year 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 14_11 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01 15_01	n Subst 43 43 43 43 43 43 43 43 43 43 43 43 43	0.001% msPAF 0.150% 0.001% 0.032% 0.0003% 0.051% 0.0003% 0.0	0.001% Top5 msPAF 0.142% 0.001% 0.0024% 0.130% 0.051% 0.0003% 0.051% 0.0003% 0.001% 0.0005% 0.001% 0.005% 0.001% 0.005% 0.01% 0.005% 0.01% 0.001% 0.005% 0.01% 0.001% 0.005% 0.01% 0.004% 0.018% 0.03%	%Tox Top5 Of Total 95 100 100 100 100 100 100 100 100 100 10	Name Subst1 diclofenac Cr diclofenac Zn diclofenac Cothianidine diclofenac Cothianidine diclofenac Zn cothianidine diclofenac Zn cothianidine diclofenac Zn	0.001% PAF Subst1 0.082% 0.001% 0.013% 0.006% 0.0003% 0.052% 0.005% 0.005% 0.001% 0.001% 0.001% 0.001% 0.001% 0.003% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.018% 0.025%	isoproturon Name Subst2 diazinon diclofenac terbuttin dimethoaat Zn claritromycine Zn Cr clothianidine Zn Cr Cr clothianidine Zn Cr Cr Cr Ni Ni Ni Ni Cr Ni Ni Ni Ni Ni Ni Ni Ni Ni N	0.0003% PAF Subst2 0.049% 0.0001% 0.010% 0.006% 0.003% 0.018% 0.0008% 0.0018% 0.005% 0.0018% 0.005% 0.013% 0.005% 0.013% 0.005% 0.013% 0.005% 0.013% 0.005% 0.005% 0.013% 0.005%	Name Subst3 imidacloprid claritromycine fipronil claritromycine diazinon diazinon diazinon diazinon claritromycine diazinon claritromycine diclofenac Cr Zn Cr Zn Cr Ni Ni diclofenac Zn clothianidine	Subst3 0.006% 0.004% 0.012% 0.003% 0.002% 0.003% 0.029% 0.003% 0.004% 0.0003% 0.001% 0.005% 0.001%	Name Subst4 diuron sulfamethoxazol diazinon terbutrin Zn dimethoaat diazinon claritromycine Cr thiacloprid Zn claritromycine Cd Zn claritromycine Zn claritromycine Zn claritromycine Zn claritromycine Zn claritromycine Zn	PAF Subst4 0.003% 0.002% 0.012% 0.001% 0.001% 0.005% 0.002% 0.002% 0.003% 0.002% 0.001% 0.0002% 0.001%	Subst5 sulfamethoxazol Zn imidacloprid Cr terbutrin diuron imidacloprid sulfamethoxazol Cd Zn Ni Cr Cd Cr diclofenac Cr	PAF Subst5 0.002% 0.001% 0.008% 0.0005% 0.004% 0.008% 0.0002% 0.005% 0.003% 0.001% 0.0003% 0.001%	msPAF - only HeavyMeta 0.003% 0.001% 0.001% 0.000% 0.000% 0.000% 0.000% 0.002% 0.002% 0.002% 0.002% 0.002% 0.002% 0.002% 0.002% 0.003% 0.003% 0.003% 0.003% 0.005% 0.006%
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