Table of assigned values

Parameter	Sample	Unit	Assigned value	± U (k=2)	Criterion	Criterion [%]
2,4-D (2,4-Dichlorophenoxyaceticacid)	PM06 A	µg/l	0.572	± 0.0327	0.0801	14
	PM06 B <	µg/l	-	± -	-	-
2,6-Dichlorobenzamide	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	0.972	± 0.0279	0.146	15
2-Amino-4-methoxy-6-methyl-1,3,5-triazine	PM06 A <	µg/l	-	± -	-	-
	PM06 B *	µg/l	-	± -	-	-
3,5,6-Trichloro-2-pyridinol	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	0.703	± 0.122	0.162	23
Alachlor	PM06 A	µg/l	0.555	± 0.0383	0.0666	12
	PM06 B <	µg/l	-	± -	-	-
Alachlor-t-acid (Alachlor-OA)	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	1.18	± 0.0909	0.176	15
Alachlor-t-sulfonic acid (Alachlor-ESA)	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	1	± 0.131	0.22	22
Aldrin	PM06 A	µg/l	0.077	± 0.00667	0.0231	30
	PM06 B <	µg/l	-	± -	-	-
AMPA	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	0.922	± 0.12	0.221	24
Atrazine	PM06 A	µg/l	0.243	± 0.00671	0.0267	11
	PM06 B <	µg/l	-	± -	-	-
Atrazine-2-hydroxy	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	1.92	± 0.126	0.269	14
Atrazine-desethyl	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	0.217	± 0.00432	0.026	12
Atrazine-desethyl-desisopropyl	PM06 A	µg/l	0.175	± 0.00964	0.0543	31
	PM06 B	µg/l	0.66	± 0.0759	0.205	31
Atrazine-desisopropyl	PM06 A <	µg/l	-	± -	-	-
	PM06 B	µg/l	0.158	± 0.00544	0.0221	14
Azoxystrobin	PM06 A	µg/l	0.134	± 0.00923	0.0201	15

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
Azoxystrobin	PM06 B <	µg/l	- ± -	-	-
Azoxystrobin-O-demethyl (CyPM)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.459 ± 0.0201	0.0459	10
Bentazone	PM06 A	µg/l	0.285 ± 0.0112	0.0427	15
	PM06 B <	µg/l	- ± -	-	-
Bromacil	PM06 A	µg/l	0.525 ± 0.0226	0.0735	14
	PM06 B <	µg/l	- ± -	-	-
Bromoxynil	PM06 A	µg/l	0.512 ± 0.0195	0.0615	12
	PM06 B <	µg/l	- ± -	-	-
Chloridazon	PM06 A	µg/l	0.608 ± 0.0219	0.0791	13
	PM06 B <	µg/l	- ± -	-	-
Chloridazon-desphenyl	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.54 ± 0.0528	0.169	11
Chloridazon-methyl-desphenyl	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.13 ± 0.0363	0.147	13
Chlorothalonil Metabolite R471811 **	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.23 ± 0.0919	0.185	15
Chlorothalonil Metabolite R611965 (3-carbamyl-2,4,5-trichlorobenzoic acid)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.961 ± 0.0397	0.144	15
Chlorothalonil Metabolite SYN507900 **	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.753 ± 0.0493	0.0829	11
Chlorothalonil sulfonic acid (Chlorothalonil-ESA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.831 ± 0.0386	0.166	20
Clopyralid	PM06 A	µg/l	0.204 ± 0.0162	0.0407	20
	PM06 B <	µg/l	- ± -	-	-
Clothianidin	PM06 A	µg/l	0.437 ± 0.0156	0.0481	11
	PM06 B <	µg/l	- ± -	-	-
Desaminometamitron **	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.926 ± 0.0306	0.0926	10

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
Dicamba	PM06 A	µg/l	0.618 ± 0.0528	0.124	20
	PM06 B <	µg/l	- ± -	-	-
Dichlorprop	PM06 A	µg/l	0.244 ± 0.011	0.0293	12
	PM06 B <	µg/l	- ± -	-	-
Dieldrin	PM06 A	µg/l	0.0215 ± 0.00582	0.00708	33
	PM06 B <	µg/l	- ± -	-	-
Dimethachlor	PM06 A	µg/l	0.33 ± 0.0135	0.033	10
	PM06 B <	µg/l	- ± -	-	-
Dimethachlor ethane sulfonic acid (CGA 354742, Dimethachlor-ESA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.152 ± 0.00771	0.0305	20
Dimethachlor Metabolite - CGA 369873	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.157 ± 0.00655	0.0315	20
Dimethachlor Metabolite - CGA 373464 (acetic acid methyl ester)	PM06 A <	µg/l	- ± -	-	-
	PM06 B *	µg/l	- ± -	-	-
Dimethachlor Metabolite - CGA 373464 (free acid)	PM06 A <	µg/l	- ± -	-	-
	PM06 B *	µg/l	- ± -	-	-
Dimethachlor oxalamic acid (CGA 50266, Dimethachlor-OA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.171 ± 0.0107	0.0342	20
Dimethenamide	PM06 A	µg/l	0.452 ± 0.0183	0.0452	10
	PM06 B <	µg/l	- ± -	-	-
Dimethenamide-P-acid (Dimethenamide-OA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.209 ± 0.013	0.023	11
Dimethenamide-P-sulfonic acid (Dimethenamide-ESA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.359 ± 0.019	0.0717	20
Diuron	PM06 A	µg/l	0.569 ± 0.0152	0.074	13
	PM06 B <	µg/l	- ± -	-	-

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
Ethidimuron	PM06 A *	µg/l	- ± -	-	-
	PM06 B <	µg/l	- ± -	-	-
Ethofumesate	PM06 A	µg/l	0.542 ± 0.0251	0.0542	10
	PM06 B <	µg/l	- ± -	-	-
Flazasulfuron	PM06 A *	µg/l	- ± -	-	-
	PM06 B <	µg/l	- ± -	-	-
Flufenacet	PM06 A	µg/l	0.277 ± 0.0163	0.036	13
	PM06 B <	µg/l	- ± -	-	-
Flufenacet oxanilic acid (Flufenacet-OA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.01 ± 0.053	0.304	30
Flufenacet sulfonic acid (Flufenacet-ESA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.383 ± 0.00591	0.0958	25
Glufosinate	PM06 A *	µg/l	- ± -	-	-
	PM06 B *	µg/l	- ± -	-	-
Glyphosate	PM06 A	µg/l	0.515 ± 0.045	0.103	20
	PM06 B	µg/l	0.287 ± 0.0237	0.0574	20
Heptachlor	PM06 A *	µg/l	- ± -	-	-
	PM06 B <	µg/l	- ± -	-	-
Heptachlor epoxide	PM06 A	µg/l	0.206 ± 0.0518	0.0679	33
	PM06 B <	µg/l	- ± -	-	-
Hexazinone	PM06 A	µg/l	0.53 ± 0.0172	0.0689	13
	PM06 B <	µg/l	- ± -	-	-
Imidacloprid	PM06 A	µg/l	0.184 ± 0.00948	0.0276	15
	PM06 B <	µg/l	- ± -	-	-
Iodosulfuron-methyl	PM06 A	µg/l	0.191 ± 0.00966	0.0248	13
	PM06 B <	µg/l	- ± -	-	-
Isoproturon	PM06 A	µg/l	0.594 ± 0.0283	0.0712	12
	PM06 B <	µg/l	- ± -	-	-
Isoproturon-desmethyl	PM06 A <	µg/l	- ± -	-	-

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
Isoproturon-desmethyl	PM06 B	µg/l	0.322 ± 0.0193	0.0419	13
MCPA	PM06 A	µg/l	0.442 ± 0.0172	0.0663	15
	PM06 B <	µg/l	- ± -	-	-
MCPB	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.51 ± 0.0165	0.0663	13
MCPP (Mecoprop)	PM06 A	µg/l	0.429 ± 0.0169	0.0557	13
	PM06 B <	µg/l	- ± -	-	-
Mesosulfuron-methyl	PM06 A	µg/l	0.278 ± 0.0305	0.0446	16
	PM06 B <	µg/l	- ± -	-	-
Metalaxyl	PM06 A	µg/l	0.148 ± 0.00792	0.0178	12
	PM06 B <	µg/l	- ± -	-	-
Metamitron	PM06 A	µg/l	0.134 ± 0.00762	0.0188	14
	PM06 B <	µg/l	- ± -	-	-
Metazachlor	PM06 A	µg/l	0.254 ± 0.0103	0.0305	12
	PM06 B <	µg/l	- ± -	-	-
Metazachlor ethane sulfonic acid (Metazachlor-ESA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.16 ± 0.0482	0.221	19
Metazachlor Metabolite BH 479-9 **	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.953 ± 0.275	0.363	38
Metazachlor oxanilic acid (Metazachlor-OA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.91 ± 0.105	0.4	21
Metolachlor	PM06 A	µg/l	0.284 ± 0.0143	0.0425	15
	PM06 B <	µg/l	- ± -	-	-
Metribuzin	PM06 A	µg/l	0.163 ± 0.0108	0.0245	15
	PM06 B <	µg/l	- ± -	-	-
Metribuzin-desamino	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.322 ± 0.0255	0.0386	12
Metsulfuron-methyl	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.941 ± 0.0529	0.122	13

Parameter	Sample	Unit	Assigned value ± U (k=2)	Criterion	Criterion [%]
N,N-Dimethylsulfamide (DMS)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.78 ± 0.114	0.267	15
Nicosulfuron	PM06 A	µg/l	0.818 ± 0.13	0.237	29
	PM06 B <	µg/l	- ± -	-	-
Nicosulfuron Metabolite UCSN **	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.245 ± 0.0117	0.0245	10
Pethoxamide	PM06 A	µg/l	0.262 ± 0.0154	0.0341	13
	PM06 B <	µg/l	- ± -	-	-
Propazine	PM06 A	µg/l	0.363 ± 0.015	0.0472	13
	PM06 B <	µg/l	- ± -	-	-
Propazine-2-hydroxy	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.251 ± 0.0192	0.0251	10
Propiconazole	PM06 A	µg/l	0.654 ± 0.0417	0.072	11
	PM06 B <	µg/l	- ± -	-	-
Quinmerac	PM06 A	µg/l	0.187 ± 0.0129	0.0225	12
	PM06 B <	µg/l	- ± -	-	-
s-Metolachlor ethanesulfonic acid (Metolachlor-ESA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.41 ± 0.063	0.254	18
s-Metolachlor Metabolite CGA 368208	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.681 ± 0.0418	0.0885	13
s-Metolachlor Metabolite NOA 413173	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	0.287 ± 0.0358	0.069	24
s-Metolachlor oxanilic acid (Metolachlor-OA)	PM06 A <	µg/l	- ± -	-	-
	PM06 B	µg/l	1.5 ± 0.107	0.241	16
Simazine	PM06 A	µg/l	0.24 ± 0.0068	0.0264	11
	PM06 B <	µg/l	- ± -	-	-
Terbuthylazine	PM06 A	µg/l	0.205 ± 0.00652	0.0226	11
	PM06 B <	µg/l	- ± -	-	-
Terbuthylazine-2-hydroxy	PM06 A <	µg/l	- ± -	-	-

Table of assigned values Pesticides in Accordance with the Drinking Water Ordinance - PM06

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Parameter	Sample	Unit	Assigned value	±	U (k=2)	Criterion	Criterion [%]
Terbuthylazine-2-hydroxy	PM06 B	µg/l	0.684	±	0.0385	0.123	18
Terbuthylazine-desethyl	PM06 A <	µg/l	-	±	-	-	-
	PM06 B	µg/l	0.2	±	0.00608	0.0221	11
Terbuthylazine-desethyl-2-hydroxy	PM06 A <	µg/l	-	±	-	-	-
	PM06 B	µg/l	0.538	±	0.0433	0.0968	18
Terbuthylazine Metabolite CGA 324007 (LM5) **	PM06 A <	µg/l	-	±	-	-	-
	PM06 B	µg/l	0.292	±	0.0219	0.0408	14
Terbuthylazine Metabolite SYN 545666 (LM6) **	PM06 A <	µg/l	-	±	-	-	-
	PM06 B	µg/l	0.232	±	0.0166	0.0279	12
Terbuthylazine Metabolite SYN 546009 (LM3) **	PM06 A <	µg/l	-	±	-	-	-
	PM06 B *	µg/l	-	±	-	-	-
Thiacloprid	PM06 A	µg/l	0.47	±	0.0216	0.0658	14
	PM06 B <	µg/l	-	±	-	-	-
Thiamethoxam	PM06 A	µg/l	0.241	±	0.0101	0.0409	17
	PM06 B <	µg/l	-	±	-	-	-
Thifensulfuron-methyl	PM06 A	µg/l	0.256	±	0.0263	0.0384	15
	PM06 B <	µg/l	-	±	-	-	-
Tolylfluanide	PM06 A <	µg/l	-	±	-	-	-
	PM06 B <	µg/l	-	±	-	-	-
Tribenuron-methyl	PM06 A	µg/l	0.419	±	0.0329	0.0419	10
	PM06 B <	µg/l	-	±	-	-	-
Triclopyr	PM06 A	µg/l	0.923	±	0.0874	0.138	15
	PM06 B <	µg/l	-	±	-	-	-
Triflusulfuron-methyl	PM06 A <	µg/l	-	±	-	-	-
	PM06 B	µg/l	0.55	±	0.108	0.132	24
Tritosulfuron	PM06 A	µg/l	0.498	±	0.0436	0.0698	14
	PM06 B <	µg/l	-	±	-	-	-

** There is no accreditation for these parameters.

For parameters marked with “<”:
Due to the low concentration present in the samples, the limit of detection (LOD) of the control laboratory (CL) is provided for information purposes.
LOD (CL): < 0.0025 µg/l for Aldrin, Dieldrin, Heptachlor and Heptachlor epoxide, and LOD (CL): < 0.025 µg/l for all other parameters marked with ‘<'.

This information can be used for comparison as part of your internal QA measures.

* For the following substances, fewer than six laboratory results were available (n<6). Therefore, the calculated mean values MV +/- U(k=2) based on the data of the accredited laboratories (n) after outlier removal are given for information. These values can be used for comparison as part of your internal QA measures.

Sample PM06A

Ethidimuron:
MV (n=5, accr.): 0.316 ± 0.030 µg/l

Flazasulfuron:
MV (n=4, accr.): 0.210 ± 0.033 µg/l

Glufosinate:
MV (n=4, accr.): 0.182 ± 0.10 µg/l

Heptachlor:
MV (n=4, accr.): 0.0301 ± 0.014 µg/l

Sample PM06B

2-Amino-4-methoxy-6-methyl-1,3,5-triazine:
MV (n=5, accr.): 0.0816 ± 0.0029 µg/l

Dimethachlor Metabolite - CGA 373464 (acetic acid methyl ester):
MV (n=4, accr.): 1.06 ± 0.32 µg/l

Dimethachlor Metabolite - CGA 373464 (free acid):
MV (n=3, accr.): 0.684 ± 0.11 µg/l

Glufosinate:
MV (n=5, accr.): 0.473 ± 0.25 µg/l

Terbuthylazine Metabolite SYN 546009 (LM3):
MV (n=3, accr.): 0.177 ± 0.016 µg/l

Legend:

Assigned value	Target value for proficiency assessment of the participants (3 significant digits)
U (k=2)	Expanded uncertainty (k=2) of the assigned value (3 significant digits)
Criterion	Specified value for the determination of the z-score in the given unit (3 significant digits)
Criterion [%]	Specified value for the determination of the z-score in % of the assigned value (2 significant digits)