

## Anhang 4 Positivbefunde in der Wasserphase in 2021

Probenahme-dauer	Parameter	Einheit	Anzahl Messungen	Anzahl Befunde > BG	Maximalkonz.	90Perzentil	Median	Mittelwert der Werte > BG	Minimalkonz. - teilw. BG	Fracht der Werte > BG in JaTo	Fracht der IKS-R Werte in JaTo	Bestimmungsgrenze der Fracht in JaTo	%->BG
1M	Trübung	NTU	365	365	324	37	4.8	16.6	1.2				100%
STICH	Wassertemperatur	°C	12	12	20.9	19.9	12.2	12.6	6.3				100%
STICH	pH	-	12	12	8.2	8.1	8.1	8.1	8				100%
STICH	Sauerstoff	mg/L	12	12	13.8	12.8	10.6	10.9	8.7	391'000	391'000	3'560	100%
14M	Leitfähigkeit_25°C	µS/cm_25°C	26	26	404	394	372	368	333				100%
STICH	Leitfähigkeit_25°C	µS/cm_25°C	12	12	392	389	366	363	331				100%
1M14	SAK-254	1/m	26	26	8.2	5.9	4.1	4.5	3.6				100%
1M14	SAK-436	1/m	26	26	0.54	0.307	0.195	0.222	0.129				100%
<b>Summenparameter</b>													
E14	DOC	mg/L	26	26	2.6	2.15	1.75	1.85	1.58	66'500	66'500	7'120	100%
14M	GUS	mg/L	26	26	125	46	8	19.7	1.8	1'071'000	1'071'000	3'560	100%
14M	Phosphor(gesamt)	mg/L	26	26	0.105	0.058	0.0216	0.032	0.01	1'415	1'415	106.9	100%
14M	Phosphor(gesamt-filtrierte)	mg/L	26	26	0.0268	0.0217	0.0114	0.0126	0.0032	469	469	106.9	100%
14M	Stickstoff(gesamt)	mg/L	26	26	2.26	1.82	1.56	1.58	1.24	55'300	55'300	7'120	100%
E14	Stickstoff(gesamt)	mg/L	26	26	2.74	1.95	1.51	1.58	1.22	54'400	54'400	7'120	100%
14M	TOC	mg/L	26	26	5.9	4.1	2.98	3.16	2.1	122'900	122'900	8'900	100%
<b>Haerte</b>													
14M	Alkalinität(pH=4.5)	mMol_H+/L	26	26	3.14	3.07	2.89	2.9	2.68				100%
14M	Gesamthärte	GRAD_dH	26	26	10.2	9.8	9.2	9.2	8.7				100%
14M	Gesamthärte(mmol/l)	mMol/L	26	26	1.82	1.75	1.64	1.65	1.54				100%
14M	Karbonathärte	GRAD_dH	26	26	8.9	8.7	8.2	8.2	7.6				100%
14M	Karbonathärte(mmol/l)	mMol/L	27	27	3.2	3.1	2.92	2.93	2.7				100%
<b>Anionen</b>													
14M	Bromid	mg/L	26	26	0.166	0.135	0.07	0.077	0.0188	2'200	2'200	356	100%
14M	Chlorid	mg/L	26	26	19.3	17.7	13.3	12.9	7.2	416'000	416'000	53'400	100%
14M	Fluorid	mg/L	26	26	0.102	0.094	0.085	0.086	0.074	2'994	2'994	1069	100%
14M	Hydrogencarbonat	mg/L	26	26	193	189	178	179	165	6'370'000		195'900	100%
14M	Kieselsäure frei (Si)	mg/L	26	26	2	1.94	1.44	1.48	0.95	53'300	53'300	3'560	100%
E14	Kieselsäure frei (Si)	mg/L	26	26	2.11	1.93	1.48	1.44	0.78	52'400	52'400	3'560	100%
14M	Kieselsäure frei (SiO2)	mg/L	26	26	4.3	4.1	3.07	3.2	2.02	114'000		7'120	100%
E14	Kieselsäure frei (SiO2)	mg/L	26	26	4.5	4.1	3.2	3.09	1.67	112'100		7'120	100%
14M	Kieselsäure frei (H4SiO4)	mg/L	26	26	6.8	6.6	4.9	5.1	3.2	182'300		12'470	100%
E14	Kieselsäure frei (H4SiO4)	mg/L	26	26	7.2	6.6	5.1	4.9	2.68	179'300		12'470	100%
14M	Nitrat(N)	mg/L	26	26	1.82	1.65	1.34	1.35	1.06	46'400	46'400	2'137	100%
E14	Nitrit(N)	mg/L	26	26	0.0155	0.0136	0.0101	0.0102	0.0065	375	375	142.5	100%
STICH	o-Phosphat(P)(gelöst-IC)	mg/L	12	11	0.0313	0.024	0.0106	0.0127	<0.004	491	487	142.5	92%
STICH	o-Phosphat(gelöst-IC)	mg/L	12	11	0.096	0.073	0.032	0.039	<0.013	1'507		463	92%
E14	o-Phosphat(P)(DRP)	mg/L	26	23	0.032	0.0179	0.0109	0.0117	<0.003	439	435	106.9	88%
E14	o-Phosphat(DRP)	mg/L	26	23	0.099	0.055	0.033	0.036	<0.0093	1'347		331	88%
14M	Sulfat	mg/L	26	26	28.2	26.9	24.9	24.4	18.6	830'000	830'000	89'000	100%
<b>Kationen</b>													
1M14	Ammonium(N)	mg/L	26	26	0.083	0.051	0.036	0.038	0.0109	1'267	1'267	356	100%
E14	Ammonium(N)	mg/L	26	26	0.062	0.044	0.0311	0.032	0.0126	1'149	1'149	356	100%
1M14	Ammonium	mg/L	26	26	0.107	0.066	0.047	0.049	0.014	1'632		356	100%
E14	Ammonium	mg/L	26	26	0.079	0.057	0.04	0.041	0.0162	1'479		356	100%
14M	Calcium(gesamt)	mg/L	26	26	59	57	54	54	50	1'922'000	1'922'000	178'100	100%
14M	Kalium(gesamt)	mg/L	26	26	2.11	2.01	1.79	1.77	1.5	60'600	60'600	17'810	100%
14M	Magnesium(gesamt)	mg/L	26	26	8.2	8.1	7.6	7.5	6.5	260'500	260'500	35'600	100%
14M	Natrium(gesamt)	mg/L	26	26	14.1	12.7	9.8	9.7	6	313'700	313'700	71'200	100%
<b>Elemente</b>													
E28	Bor(gelöst)	µg/L	13	13	17	16	13	13.3	11	449	449	356	100%
<b>Metalle</b>													
E28	Arsen(gelöst)	µg/L	13	12	0.86	0.78	0.68	0.67	<0.5	23.06	22.19	17.81	92%
14M	Arsen(gesamt)	µg/L	26	26	0.96	0.85	0.71	0.72	0.52	26.09	26.09	17.81	100%
E28	Barium(gelöst)	µg/L	13	13	37	37	33	34	30	1'202	1'202	17.81	100%
14M	Barium(gesamt)	µg/L	26	26	42	38	35	35	32	1'260	1'260	18.44	100%
E28	Blei(gelöst)	µg/L	13	1	0.25	0.1	0.1	0.112	<0.1			3.56	7.7%
14M	Blei(gesamt)	µg/L	26	17	2	0.75	0.155	0.38	<0.1	19.54	19.16	3.56	65%
14M	Cadmium(gesamt)	µg/L	26	2	0.03	0.02	0.02	0.0204	<0.02			0.712	7.7%
E28	Chrom(gelöst)	µg/L	13	2	0.24	0.208	0.2	0.204	<0.2			7.12	15%
14M	Chrom(gesamt)	µg/L	26	15	0.62	0.38	0.2	0.259	<0.2	10.65	9.63	7.12	58%
14M	Eisen(gesamt)	µg/L	26	26	430	214	56	94	17	4'770	4'770	356	100%
E28	Kupfer(gelöst)	µg/L	13	12	1.2	1.1	0.74	0.78	<0.5	28.81	28.31	17.81	92%
14M	Kupfer(gesamt)	µg/L	26	26	3.09	1.78	1.01	1.19	0.61	49.6	49.6	17.81	100%
14M	Mangan(gesamt)	µg/L	26	26	61	22.5	5	10.6	1.8	561	561	35.6	100%
14M	Nickel(gesamt)	µg/L	26	15	1.27	0.8	0.52	0.59	<0.5	23.4	20.61	17.81	58%
14M	Quecksilber(gesamt)	µg/L	26	2	0.0064	0.005	0.005	0.0051	<0.005			0.178	7.7%
E28	Strontium(gelöst)	µg/L	13	13	457	370	350	352	280	12'320	12'320	178.1	100%
14M	Strontium(gesamt)	µg/L	26	26	392	380	360	358	320	12'600	12'600	178.1	100%
E28	Zink(gelöst)	µg/L	13	1	1.3	1	1	1.02	<1			35.6	7.7%
14M	Zink(gesamt)	µg/L	26	19	6.1	4.6	1.75	2.24	<1	93.4	90.4	35.6	73%
<b>Nuklide</b>													
7M	Tritium	Bq/L	52	5	14.3	4	4	4.3	<2				10%
<b>LHKW</b>													
1M	1,1,1-Trichlorethan	µg/L	365	280	0.0109	0.0058	0.00203	0.00276	<0.001	0.079	0.072	0.036	77%
1M	Bromoform	µg/L	365	98	9	0.0121	0.01	0.035	<0.01	1.364	1.219	0.356	27%
1M	Chloroform	µg/L	365	139	0.052	0.04	0.02	0.0249	<0.02	0.816	0.559	0.712	38%

## Anhang 4 Positivbefunde in der Wasserphase in 2021

Probenahmedauer	Parameter	Einheit	Anzahl Messungen	Anzahl Befunde > BG	Maximalkonz.	90Perzentil	Median	Mittelwert der Werte > BG	Minimalkonz. - teilw. BG	Fracht der Werte > BG in JaTo	Fracht der IKSr-Werte in JaTo	Bestimmungsgränze der Fracht in JaTo	%->BG
1M	Dichlormethan	µg/L	365	62	0.31	0.065	0.04	0.049	<0.04			1.425	17%
1M	Hexachlorethan	µg/L	365	70	0.0013	0.00048	0.0004	0.00042	<0.0004			0.0142	19%
1M	Tetrachlorethan	µg/L	365	365	0.0297	0.0196	0.0141	0.0139	0.0044	0.42	0.42	0.036	100%
1M	Tetrachlormethan	µg/L	365	131	0.0019	0.00134	0.001	0.00109	<0.001	0.038	0.0256	0.036	36%
1M	Trichlorethan	µg/L	365	331	0.0154	0.0073	0.0035	0.004	<0.001	0.115	0.113	0.036	91%
1M	Summe_Halogenierte	µg/L	365	1	9.5	1	1	1.02	<1			35.6	0.3%
<b>Komplexbildner</b>													
28M	DTPA	µg/L	12	1	0.5			0.5	<0.5			17.81	8.3%
28M	EDTA	µg/L	12	13	1.25			0.96	0.53	30.55	30.55	17.81	108%
28M	NTA	µg/L	12	1	0.5			0.5	<0.5			17.81	8.3%
<b>Suessstoffe</b>													
1M	Acesulfam	µg/L	365	365	0.62	0.34	0.204	0.219	0.092	7.42	7.42	0.071	100%
1M	Acesulfam-K	µg/L	365	365	0.76	0.42	0.251	0.27	0.114	9.17		0.107	100%
1M	Cyclohexylsulfaminsäure	µg/L	365	365	0.193	0.102	0.04	0.052	0.017	2.13	2.13	0.178	100%
1M	Natriumcyclamat	µg/L	90	90	0.215	0.131	0.049	0.068	0.0191	2.817		0.214	100%
1M	Saccharin	µg/L	365	365	0.37	0.046	0.024	0.0289	0.0091	1.059	1.059	0.071	100%
1M	Sucralose	µg/L	365	365	0.52	0.41	0.263	0.27	0.089	8.11	8.11	0.356	100%
<b>Roentgenkontrastmittel</b>													
1M	Iohexol	µg/L	365	73	0.108	0.06	0.05	0.052	<0.05			1.781	20%
1M	Iomeprol	µg/L	365	363	0.55	0.286	0.168	0.182	<0.05	5.57	5.56	1.781	99%
1M	Iopamidol	µg/L	365	340	0.55	0.32	0.152	0.17	<0.05	4.9	4.78	1.781	93%
1M	Iopromid	µg/L	365	356	0.303	0.217	0.134	0.142	<0.05	4.31	4.26	1.781	98%
<b>Arzneimittel</b>													
1M	Aliskiren	µg/L	365	247	0.0094	0.006	0.0039	0.0042	<0.003	0.132	0.105	0.107	68%
1M	Amisulprid	µg/L	365	37	0.007	0.005	0.005	0.005	<0.005			0.178	10%
1M	Atenolol	µg/L	365	2	0.0065	0.005	0.005	0.005	<0.005			0.178	0.5%
1M	Bezafibrat	µg/L	365	2	0.0046	0.003	0.003	0.00301	<0.003			0.107	0.5%
1M	Candesartan	µg/L	365	365	0.039	0.027	0.017	0.0172	0.006	0.508	0.508	0.178	100%
1M	Carbamazepin	µg/L	365	365	0.016	0.011	0.0081	0.008	0.00284	0.249	0.249	0.036	100%
1M	Cetirizin	µg/L	365	20	0.0061	0.005	0.005	0.005	<0.005			0.178	5.5%
1M	Citalopram	µg/L	365	2	0.005	0.005	0.005	0.005	<0.005			0.178	0.5%
1M	Clarithromycin	µg/L	365	2	0.0057	0.005	0.005	0.005	<0.005			0.178	0.5%
1M	Cyclophosphamid	µg/L	365	1	0.0055	0.005	0.005	0.005	<0.005			0.178	0.3%
1M	Diclofenac	µg/L	365	365	0.063	0.037	0.0216	0.0227	0.006	0.68	0.68	0.036	100%
1M	Gabapentin	µg/L	365	365	0.083	0.063	0.046	0.046	0.0151	1.421	1.421	0.178	100%
1M	Gabapentin-lactam	µg/L	365	96	0.019	0.0126	0.01	0.0106	<0.01	0.369	0.218	0.356	26%
1M	Hydrochlorothiazid	µg/L	365	365	0.038	0.0253	0.0125	0.0142	0.0045	0.423	0.423	0.036	100%
1M	Indomethacin	µg/L	365	2	0.0111	0.01	0.01	0.01	<0.01			0.356	0.5%
1M	Irbesartan	µg/L	365	233	0.028	0.019	0.013	0.0137	<0.01	0.436	0.335	0.356	64%
1M	Lamotrigin	µg/L	365	365	0.064	0.05	0.033	0.034	0.01	1.003	1.003	0.036	100%
1M	Levamisol	µg/L	365	1	0.0058	0.005	0.005	0.005	<0.005			0.178	0.3%
1M	Levetiracetam	µg/L	365	224	0.0211	0.0123	0.0065	0.0075	<0.005	0.264	0.227	0.178	61%
1M	Lidocain	µg/L	365	267	0.053	0.0104	0.005	0.0061	<0.003	0.184	0.162	0.107	73%
1M	Metformin	µg/L	365	365	0.59	0.4	0.249	0.265	0.091	8.89	8.89	0.178	100%
1M14	Metformin	µg/L	16	15	0.45	0.301	0.186	0.207	<0.05	6.4	6.29	1.651	94%
1M	Methadon	µg/L	365	290	0.0238	0.005	0.00104	0.00224	<0.0005	0.062	0.059	0.036	79%
1M	Metoprolol	µg/L	365	365	0.0228	0.0113	0.0077	0.0076	0.00281	0.231	0.231	0.033	100%
1M	Metronidazol	µg/L	365	8	0.083	0.01	0.01	0.0106	<0.01			0.356	2.2%
1M	Moclobemid	µg/L	365	17	0.018	0.005	0.005	0.0052	<0.005			0.178	4.7%
1M	Naproxen	µg/L	365	2	0.078	0.05	0.05	0.05	<0.05			1.781	0.5%
1M	Olmesartan	µg/L	365	204	0.026	0.016	0.011	0.0121	<0.01	0.4	0.287	0.356	56%
1M	Oxazepam	µg/L	365	49	0.0068	0.0051	0.005	0.0051	<0.005			0.178	13%
1M	Paracetamol	µg/L	365	128	0.147	0.039	0.01	0.018	<0.01	0.736	0.639	0.356	35%
1M	Phenazon	µg/L	365	138	0.0071	0.0041	0.003	0.0033	<0.003	0.114	0.072	0.107	38%
1M	Pregabalin	µg/L	365	247	0.039	0.02	0.013	0.0141	<0.01	0.465	0.385	0.356	68%
1M	Simvastatin	µg/L	334	32	0.0119			0.01	<0.01			0.356	10%
1M	Sitagliptin	µg/L	365	311	0.043	0.031	0.023	0.0218	<0.01	0.673	0.624	0.356	85%
1M	Sotalol	µg/L	365	267	0.0033	0.00228	0.00156	0.00157	<0.001	0.049	0.041	0.036	73%
1M	Sulfamethoxazol	µg/L	365	365	0.0209	0.0159	0.0117	0.0117	0.0048	0.365	0.365	0.036	100%
1M	Telmisartan	µg/L	365	41	0.0172	0.01	0.01	0.0102	<0.01			0.356	11%
1M	Torasemid	µg/L	365	33	0.0043	0.003	0.003	0.00306	<0.003			0.107	9.0%
1M	Tramadol	µg/L	365	365	0.0309	0.0234	0.0121	0.0135	0.0028	0.385	0.385	0.036	100%
1M	Trimethoprim	µg/L	365	6	0.0061	0.005	0.005	0.005	<0.005			0.178	1.6%
1M	Valsartan	µg/L	365	365	0.084	0.056	0.042	0.038	0.011	1.185	1.185	0.178	100%
1M	Valsartan	µg/L	365	365	0.084	0.058	0.037	0.037	0.0115	1.139	1.139	0.107	100%
1M	Venlafaxin	µg/L	365	365	0.037	0.018	0.0076	0.0093	0.00227	0.257	0.257	0.033	100%
<b>Rauschgifte</b>													
1M	3,4-Methylenedioxy-N-methylamphetamin	µg/L	365	9	0.00141	0.001	0.001	0.001	<0.001			0.036	2.5%
1M	Kokain	µg/L	365	56	0.0074	0.00115	0.001	0.00108	<0.001			0.036	15%
<b>Einzelstoffe</b>													
1M	1,1,3,3-Tetracarbnitrilpropen	µg/L	365	186	0.108	0.057	0.01	0.0247	<0.01	0.849	0.771	0.356	51%
1M14	1,2,4-Triazol	µg/L	25	13	0.172	0.135	0.064	0.084	<0.05	2.652	2.104	2.001	52%
1M14	1,3-Diphenylguanidin	µg/L	25	2	0.079	0.025	0.025	0.0276	<0.025			1.069	8.0%
1M	1-Butylpyrrolidin-2-on	µg/L	365	70	0.058	0.015	0.01	0.0118	<0.01			0.356	19%
1M	2-((Dimethylamino)methyl)benzonitril	µg/L	365	121	0.229	0.099	0.05	0.064	<0.05	2.17	1.527	1.781	33%
1M	2-Hydroxy-4-methoxybenzophenon	µg/L	365	2	0.011	0.01	0.01	0.01	<0.01			0.356	0.5%
1M	2-Naphthalinsulfonsäure	µg/L	365	258	0.14	0.0254	0.0126	0.0159	<0.01	0.608	0.564	0.356	71%



## Anhang 4 Positivbefunde in der Wasserphase in 2021

Probenahme- dauer	Parameter	Einheit	Anzahl Messungen	Anzahl Befunde > BG	Maximalkonz.	90Perzentil	Median	Mittelwert der Werte > BG	Minimalkonz. - teilw. BG	Fracht der Werte > BG in JaTo	Fracht der IKS- Werte in JaTo	Bestimmungsg- renze der Fracht in JaTo	%->BG
1M	Clopidogrelsäure	µg/L	365	29	0.008	0.005	0.005	0.0052	<0.005			0.178	7.9%
14M	D617	µg/L	2	1	0.00203	0.00203	0.00202	0.00202	<0.002	0.071	0.042	0.071	50%
1M	Desaminometamitron	µg/L	365	171	0.0083	0.003	0.001	0.0016	<0.001	0.06	0.052	0.036	47%
1M	Desethylatrazin	µg/L	365	64	0.0053	0.0033	0.003	0.00307	<0.003			0.107	18%
1M	Desethylterbutylazin	µg/L	365	13	0.013	0.005	0.005	0.0051	<0.005			0.178	3.6%
1M	Dimethenamid-ESA	µg/L	365	21	0.032	0.01	0.01	0.0103	<0.01			0.356	5.8%
1M	Dimethenamid-OXA	µg/L	365	3	0.017	0.01	0.01	0.01	<0.01			0.356	0.8%
1M	Fenofibrinsäure	µg/L	365	57	0.042	0.015	0.01	0.0113	<0.01			0.356	16%
1M	Flufenacet-ESA	µg/L	365	3	0.0135	0.01	0.01	0.01	<0.01			0.356	0.8%
1M14	Guanylurea	µg/L	25	24	1.61	1.08	0.52	0.58	<0.1	16.88	16.73	4.71	96%
1M	Metaxyl-TP(CGA 62826)	µg/L	365	52	0.08	0.0122	0.01	0.0124	<0.01			0.356	14%
1M	Metazachlor-ESA	µg/L	365	4	0.011	0.01	0.01	0.01	<0.01			0.356	1.1%
1M	Metolachlor-ESA	µg/L	365	364	0.033	0.022	0.013	0.0144	<0.005	0.548	0.548	0.178	100%
1M	Metolachlor-morpholinon	µg/L	365	164	0.0085	0.0039	0.002	0.00261	<0.002	0.093	0.072	0.071	45%
1M	Metolachlor-OXA	µg/L	365	271	0.044	0.02	0.0076	0.0104	<0.005	0.318	0.289	0.178	74%
1M	O-Desmethylvenlafaxin	µg/L	365	365	0.02	0.016	0.009	0.0094	0.004	0.295	0.295	0.036	100%
1M	N,N-Didesmethylvenlafaxin	µg/L	365	68	0.101	0.0114	0.005	0.0081	<0.005			0.178	19%
1M	N-Acetyl-4-aminoantipyrin	µg/L	365	365	0.106	0.089	0.071	0.067	0.0315	2.107	2.107	0.107	100%
1M	N-Desmethylvenlafaxin	µg/L	365	322	0.00255	0.00219	0.00163	0.00162	<0.001	0.051	0.047	0.036	88%
1M	N,N-Dimethyldicylamin-N-oxid	µg/L	365	1	0.0053	0.005	0.005	0.005	<0.005			0.178	0.3%
1M	N,O-Didesmethylvenlafaxin	µg/L	365	315	0.0073	0.0057	0.0038	0.0039	<0.002	0.116	0.107	0.071	86%
1M	Oxypurinol	µg/L	365	365	0.239	0.181	0.106	0.111	0.0223	3.26	3.26	0.712	100%
1M	Pyrimidinol	µg/L	365	1	0.01	0.01	0.01	0.01	<0.01			0.356	0.3%
1M	Valsartansäure	µg/L	365	365	0.102	0.081	0.047	0.05	0.0113	1.484	1.484	0.178	100%