

River: Danube  
 Distance from the mouth 2120  
 Location: Right

Catchment: 83992 km2  
 Altitude: 241 m  
 2006

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	652.0	1583.2	3390.0	1420.0	2584.6	
Temperature	°C	12	1.1	10.4	19.9	10.6	17.5	
Suspended solids	mg/l	12	2.2	16.9	65.2	10.6	36.3	
Dissolved oxygen	mg/l	12	9.0	11.2	14.0	11.1	9.0	I
BOD (5)	mg/l	12	< 0.5	1.1	1.9	1.0	1.8	I
COD (Mn)	mg/l	12	1.5	3.5	7.1	3.2	4.2	I
COD (Cr)	mg/l	12	3.4	7.1	8.9	7.3	8.9	I
TOC	mg/l	12	1.4	2.2	3.6	2.2	2.8	
DOC	mg/l	12	1.1	2.1	3.5	2.1	2.6	
pH	-	12	8.1	8.3	8.5	8.3	8.4	II
							8.1	II
Alkalinity - total	mmol/l	12	2.9	3.4	4.2	3.4	3.9	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.051	0.158	0.029	0.105	I
Nitrite (NO2-N)	mg/l	12	0.006	0.017	0.031	0.011	0.031	II
Nitrate (NO3-N)	mg/l	12	1.550	2.488	3.450	2.420	3.123	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.034	0.072	0.033	0.049	I
Total phosphorus	mg/l	12	0.019	0.048	0.088	0.045	0.062	I
Total phosphorus, dissolved	mg/l	12	< 0.005	0.040	0.079	0.041	0.053	
Chlorophyll A	µg/l	1	11.0	11.0	11.0			I
Conductivity	µS/cm	12	332	419	504	409	502	
Calcium (Ca++)	mg/l	12	47.0	57.6	73.1	55.7	67.1	
Sulphate (SO4--)	mg/l	12	12.4	25.1	33.7	27.2	30.8	
Magnesium (Mg++)	mg/l	12	10.6	13.0	18.6	12.5	15.2	
Potassium (K+)	mg/l	12	1.8	2.4	3.9	2.3	2.8	
Sodium (Na+)	mg/l	12	8.1	13.9	20.6	13.3	20.4	
Manganese (Mn)	mg/l	12	0.0060	0.0224	0.0620	0.0185	0.0406	
Iron (Fe)	mg/l	12	0.130	0.421	1.250	0.310	1.024	
Chloride (Cl-)	mg/l	12	13.0	24.2	37.7	22.0	36.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.10	2.20	3.80	2.15	2.60	II
Copper (Cu), dissolved	µg/l	12	< 0.70	0.99	1.40	0.90	1.39	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	0.79	1.40	0.70	1.06	III
Arsenic (As), dissolved	µg/l	12	< 0.70	0.73	1.00	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12	< 7.00	11.67	21.00	10.50	17.80	
Zinc (Zn)	µg/l	12	1.40	7.50	48.20	3.95	7.69	II
Copper (Cu)	µg/l	12	1.10	1.69	3.50	1.45	2.97	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.72	1.50	0.60	1.05	II
Lead (Pb)	µg/l	12	< 0.80	1.10	1.70	0.80	1.60	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.38	2.50	1.15	2.36	II
Arsenic (As)	µg/l	12	< 0.70	1.16	4.70	0.70	1.20	II
Aluminium (Al)	µg/l	12	57.00	207.17	622.00	160.00	482.40	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.006	0.033	0.124	0.023	0.111	
AOX	µg/l	12	7.68	10.44	17.60	9.89	12.98	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.17	2.17	2.17			II
Macrozoobenthos no. of taxa	-	1	35	35	35			
Total coliforms (37 C)	1000CFU/100m	12	0.180	3.195	16.300	1.625	7.275	
Faecal coliforms (44 C)	1000CFU/100m	12	0.020	0.418	1.410	0.255	1.137	
Faecal streptococci	1000CFU/100m	12	0.020	0.053	0.160	0.040	0.105	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1874  
 Location: Right

Catchment: 131411 km2  
 Altitude: 136 m  
 2006

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	808.0	2183.1	7530.0	1690.0	3954.4	
Temperature	°C	24	0.3	10.3	19.6	11.1	17.6	
Suspended solids	mg/l	24	< 0.5	27.0	213.7	13.0	63.4	
Dissolved oxygen	mg/l	24	8.6	11.0	13.5	11.0	9.4	I
BOD (5)	mg/l	24	< 0.5	1.4	3.7	1.2	2.0	I
COD (Mn)	mg/l	12	1.6	3.6	6.5	3.4	4.8	I
COD (Cr)	mg/l	24	4.6	7.7	17.1	6.9	10.4	II
TOC	mg/l	24	1.5	2.3	4.4	2.0	3.1	
DOC	mg/l	24	1.4	2.1	4.2	1.8	2.8	
pH	-	24	7.9	8.1	8.4	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	24	2.5	3.2	3.9	3.1	3.6	
Ammonium (NH4-N)	mg/l	24	< 0.004	0.036	0.148	0.023	0.103	I
Nitrite (NO2-N)	mg/l	24	0.004	0.015	0.043	0.011	0.031	II
Nitrate (NO3-N)	mg/l	24	1.330	2.120	3.320	1.890	3.180	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	< 0.003	0.032	0.053	0.035	0.047	I
Total phosphorus	mg/l	24	0.023	0.046	0.081	0.045	0.065	I
Total phosphorus, dissolved	mg/l	24	0.009	0.038	0.057	0.040	0.054	
Chlorophyll A	µg/l	1	6.0	6.0	6.0			I
Conductivity	µS/cm	24	263	381	508	356	492	
Calcium (Ca++)	mg/l	24	40.3	53.0	62.8	52.5	62.1	
Sulphate (SO4--)	mg/l	24	17.6	27.7	41.9	26.9	33.8	
Magnesium (Mg++)	mg/l	24	9.2	12.8	16.0	13.1	14.9	
Potassium (K+)	mg/l	24	1.6	2.2	3.1	2.1	2.8	
Sodium (Na+)	mg/l	24	5.7	11.4	21.0	9.5	19.1	
Manganese (Mn)	mg/l	24	0.0060	0.0222	0.0750	0.0135	0.0559	
Iron (Fe)	mg/l	24	0.060	0.465	2.530	0.265	0.944	
Chloride (Cl-)	mg/l	24	10.2	20.0	38.4	17.1	35.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24	< 0.80	2.21	6.00	1.65	4.16	II
Copper (Cu), dissolved	µg/l	24	< 0.70	1.10	1.80	1.15	1.40	II
Chromium (Cr), total dissolved	µg/l	24	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	24	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	24	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	24	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	24	< 0.70	0.72	1.20	0.70	0.70	II
Arsenic (As), dissolved	µg/l	24	< 0.70	0.77	1.20	0.70	1.07	III
Aluminium (Al), dissolved	µg/l	24	< 7.00	11.38	26.00	8.50	18.00	
Zinc (Zn)	µg/l	24	< 0.80	4.29	9.80	3.70	7.51	II
Copper (Cu)	µg/l	24	1.00	1.84	4.40	1.60	2.57	II
Chromium (Cr) - total	µg/l	24	< 0.60	0.75	2.80	0.60	1.09	II
Lead (Pb)	µg/l	24	< 0.80	1.07	2.60	0.80	1.80	II
Cadmium (Cd)	µg/l	24	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	24	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	24	< 0.70	1.16	3.50	1.05	1.67	II
Arsenic (As)	µg/l	24	< 0.70	0.91	2.10	0.70	1.45	II
Aluminium (Al)	µg/l	24	35.00	231.38	1278.00	128.00	434.60	
Phenol index	mg/l	24	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	24	< 0.006	0.023	0.109	0.006	0.072	
AOX	µg/l	24	4.96	10.57	18.90	9.61	14.71	II
Petroleum hydrocarbons	mg/l	24	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	23	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	0.05	0.11	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.14	2.14	2.14			II
Macrozoobenthos no. of taxa	-	1	26	26	26			
Total coliforms (37 C)	1000CFU/100m	24	0.400	3.512	15.800	1.895	8.165	
Faecal coliforms (44 C)	1000CFU/100m	24	0.070	0.499	1.600	0.345	1.007	
Faecal streptococci	1000CFU/100m	24	0.020	0.070	0.240	0.050	0.135	
Salmonella	No/1l	11	0.0	0.1	1.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 8107 km2	2006
Distance from the mouth 2581	Altitude: 452 m	D01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	61.2	170.7	727.4	119.6	339.2	
Temperature	°C	26	1.0	10.4	20.2	11.5	19.7	
Suspended solids	mg/l	26	<	3.0	17.0	194.0	7.5	18.5
Dissolved oxygen	mg/l	26	<	8.3	10.4	13.1	10.1	8.6
BOD (5)	mg/l	26	<	1.0	1.3	2.2	1.2	2.0
COD (Mn)	mg/l	26		1.8	3.1	9.5	2.6	4.3
COD (Cr)	mg/l	13		8.0	10.4	18.0	10.0	12.0
TOC	mg/l	23		2.3	3.2	4.8	3.0	4.4
DOC	mg/l							
pH	-	26		8.0	8.2	8.4	8.1	8.3
Alkalinity - total	mmol/l	4		3.7	4.2	4.7	4.2	8.1
Ammonium (NH4-N)	mg/l	26	<	0.020	0.089	0.270	0.070	0.180
Nitrite (NO2-N)	mg/l	11		0.018	0.023	0.031	0.022	0.030
Nitrate (NO3-N)	mg/l	26		1.900	3.350	4.500	3.150	4.350
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26		0.007	0.044	0.084	0.045	0.067
Total phosphorus	mg/l	26		0.054	0.090	0.250	0.081	0.115
Total phosphorus, dissolved	mg/l	11		0.024	0.050	0.069	0.051	0.065
Chlorophyll A	µg/l							
Conductivity	µS/cm	26		359	511	673	501	609
Calcium (Ca++)	mg/l	4		66.0	79.8	87.0	83.0	
Sulphate (SO4--)	mg/l	4		15.0	18.3	21.0	18.5	
Magnesium (Mg++)	mg/l	4		10.0	11.3	13.0	11.0	
Potassium (K+)	mg/l	4		1.9	2.4	2.6	2.5	
Sodium (Na+)	mg/l	4		9.0	13.0	19.0	12.1	
Manganese (Mn)	mg/l	24		0.0090	0.0198	0.0730	0.0170	0.0267
Iron (Fe)	mg/l	25		0.020	0.274	3.000	0.130	0.376
Chloride (Cl-)	mg/l	23		17.0	28.9	65.0	26.0	37.0
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	21	<	10.00	10.00	10.00	10.00	10.00
Copper (Cu), dissolved	µg/l	20		1.00	1.75	3.00	2.00	2.10
Chromium (Cr), total dissolved	µg/l	20	<	1.00	1.00	1.00	1.00	1.00
Lead (Pb), dissolved	µg/l	21	<	1.00	1.00	1.00	1.00	1.00
Cadmium (Cd), dissolved	µg/l	21	<	0.10	0.10	0.10	0.10	0.10
Mercury (Hg), dissolved	µg/l	21	<	0.100	0.100	0.100	0.100	0.100
Nickel (Ni), dissolved	µg/l	21	<	1.00	1.00	1.00	1.00	1.00
Arsenic (As), dissolved	µg/l	21	<	1.00	1.00	1.00	1.00	1.00
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	<	10.00	10.77	30.00	10.00	10.00
Copper (Cu)	µg/l	26		1.00	2.81	9.00	2.50	4.00
Chromium (Cr) - total	µg/l	26	<	1.00	1.12	4.00	1.00	1.00
Lead (Pb)	µg/l	26	<	1.00	1.19	6.00	1.00	1.00
Cadmium (Cd)	µg/l	26	<	0.10	0.10	0.10	0.10	0.10
Mercury (Hg)	µg/l	26	<	0.100	0.100	0.100	0.100	0.100
Nickel (Ni)	µg/l	26	<	1.00	1.31	7.00	1.00	1.50
Arsenic (As)	µg/l	26	<	1.00	1.04	2.00	1.00	1.00
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	11	<	10.00	10.00	10.00	10.00	10.00
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	11	<	0.01	0.02	0.05	0.02	0.03
Carbon tetrachloride	µg/l	11	<	0.01	0.01	0.02	0.01	0.01
Trichloroethylene	µg/l	11	<	0.01	0.03	0.05	0.03	0.05
Tetrachloroethylene	µg/l	11		0.03	0.14	0.22	0.17	0.20
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 2204  
 Location: Middle

Catchment: 77086 km2  
 Altitude: 460 m  
 2006  
 D02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	544.8	1389.9	4697.4	1126.1	2456.2	
Temperature	°C	27	0.0	10.2	19.9	11.4	18.2	
Suspended solids	mg/l	26	3.0	41.3	251.0	24.0	122.5	
Dissolved oxygen	mg/l	26	7.9	10.9	13.6	10.9	9.1	I
BOD (5)	mg/l	24	< 1.0	2.2	3.9	2.0	3.6	II
COD (Mn)	mg/l	12	1.0	2.0	2.5	2.1	2.5	I
COD (Cr)	mg/l	11	< 1.0	6.7	13.0	7.0	12.0	II
TOC	mg/l	26	1.8	3.1	10.0	2.6	4.3	
DOC	mg/l	11	1.5	2.3	3.3	2.2	3.1	
pH	-	27	7.8	8.0	8.2	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l	12	2.2	3.0	3.7	3.1	3.6	
Ammonium (NH4-N)	mg/l	26	0.020	0.074	0.210	0.060	0.135	I
Nitrite (NO2-N)	mg/l	26	0.006	0.014	0.034	0.010	0.028	II
Nitrate (NO3-N)	mg/l	26	1.100	2.127	3.500	2.000	3.100	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26	< 0.005	0.034	0.080	0.032	0.058	II
Total phosphorus	mg/l	26	0.040	0.091	0.370	0.070	0.155	II
Total phosphorus, dissolved	mg/l	11	0.026	0.041	0.073	0.042	0.050	
Chlorophyll A	µg/l	17	1.0	10.5	30.0	7.0	26.2	II
Conductivity	µS/cm	26	263	374	510	355	495	
Calcium (Ca++)	mg/l	12	46.1	58.4	73.6	56.9	72.7	
Sulphate (SO4--)	mg/l	12	17.0	28.1	38.0	28.5	36.7	
Magnesium (Mg++)	mg/l	12	10.4	13.9	17.3	13.8	16.6	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0150	0.0359	0.1100	0.0235	0.0753	
Iron (Fe)	mg/l	12	0.100	0.591	2.800	0.350	0.927	
Chloride (Cl-)	mg/l	26	11.0	20.4	39.0	17.5	35.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	25	10.00	11.60	20.00	10.00	20.00	III
Copper (Cu), dissolved	µg/l	25	2.00	2.48	4.00	2.00	3.00	III
Chromium (Cr), total dissolved	µg/l	25	< 1.00	1.04	2.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	25	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	25	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	15	< 0.100	0.227	1.100	0.100	0.300	III
Nickel (Ni), dissolved	µg/l	24	< 1.00	1.04	2.00	1.00	1.00	II
Arsenic (As), dissolved	µg/l	25	1.00	1.00	1.00	1.00	1.00	II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10.00	14.62	30.00	10.00	30.00	II
Copper (Cu)	µg/l	26	2.00	5.62	16.00	5.00	8.00	II
Chromium (Cr) - total	µg/l	26	< 1.00	3.12	40.00	1.00	4.00	II
Lead (Pb)	µg/l	25	< 1.00	1.84	6.00	1.00	4.00	II
Cadmium (Cd)	µg/l	26	< 0.10	0.10	0.20	0.10	0.10	II
Mercury (Hg)	µg/l	26	< 0.100	0.358	1.700	0.300	0.550	V
Nickel (Ni)	µg/l	26	< 1.00	3.12	11.00	2.00	6.00	II
Arsenic (As)	µg/l	26	< 1.00	1.50	5.00	1.00	3.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0200	0.0200	0.0200	0.0200	0.0200	
Anionic active surfactants (PAL-A)	mg/l	11	< 0.100	0.126	0.260	0.100	0.230	
AOX	µg/l	12	< 10.00	10.00	10.00	10.00	10.00	I
Petroleum hydrocarbons	mg/l	9	< 0.200	0.200	0.200	0.200		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	15	< 0.010	0.010	0.010	0.010	0.010	I
Chloroform	µg/l	11	< 0.01	0.03	0.07	0.03	0.05	II
Carbon tetrachloride	µg/l	11	< 0.01	0.01	0.01	0.01	0.01	I
Trichloroethylene	µg/l	11	< 0.01	0.06	0.11	0.06	0.10	II
Tetrachloroethylene	µg/l	11	< 0.01	0.11	0.20	0.08	0.20	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Inn	Catchment:	9905 km2	2006
Distance from the mouth 195	Altitude:	390 m	D03
Location: Middle			

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	64.0	334.6	2495.3	247.9	652.7	
Temperature	°C	26	0.2	8.3	13.9	9.7	13.8	
Suspended solids	mg/l	20	< 3.0	22.0	105.0	10.0	49.2	
Dissolved oxygen	mg/l	25	< 9.3	10.7	13.0	10.4	9.7	I
BOD (5)	mg/l	26	< 1.0	1.2	1.9	1.0	1.5	I
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l	25	0.6	1.6	4.4	1.3	2.7	
DOC	mg/l							
pH	-	26	7.8	8.2	8.4	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l	12	1.0	1.8	2.5	2.0	2.4	
Ammonium (NH4-N)	mg/l	24	< 0.020	0.029	0.060	0.020	0.057	I
Nitrite (NO2-N)	mg/l	17	< 0.005	0.008	0.014	0.006	0.012	II
Nitrate (NO3-N)	mg/l	25	0.400	0.671	1.700	0.600	0.988	I
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	25	< 0.005	0.007	0.012	0.007	0.011	I
Total phosphorus	mg/l	25	0.023	0.069	0.258	0.038	0.150	II
Total phosphorus, dissolved	mg/l	18	0.006	0.016	0.041	0.013	0.029	
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	148	251	327	262	313	
Calcium (Ca++)	mg/l	12	34.0	38.7	47.0	38.0	44.6	
Sulphate (SO4--)	mg/l	13	23.0	33.3	45.0	35.0	43.2	
Magnesium (Mg++)	mg/l	11	8.4	10.4	13.0	10.0	12.0	
Potassium (K+)	mg/l	13	1.5	2.0	2.5	2.0	2.3	
Sodium (Na+)	mg/l	13	2.4	7.3	11.0	7.8	9.8	
Manganese (Mn)	mg/l	26	0.0050	0.0210	0.1300	0.0130	0.0360	
Iron (Fe)	mg/l	26	0.030	0.797	5.100	0.275	2.550	
Chloride (Cl-)	mg/l	25	< 0.5	6.2	17.0	6.0	11.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10.00	38.00	90.00	30.00	82.00	II
Copper (Cu)	µg/l	26	1.00	31.92	64.00	37.50	50.50	IV
Chromium (Cr) - total	µg/l	26	< 1.00	2.08	11.00	1.00	5.50	II
Lead (Pb)	µg/l	26	< 1.00	3.73	18.00	3.00	6.50	III
Cadmium (Cd)	µg/l	26	< 0.10	0.13	0.40	0.10	0.20	II
Mercury (Hg)	µg/l	23	< 0.100	0.178	0.600	0.100	0.300	IV
Nickel (Ni)	µg/l	25	1.00	4.56	13.00	2.00	11.20	II
Arsenic (As)	µg/l	26	1.00	1.92	6.00	2.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	10	< 0.01	0.02	0.02	0.02		I
Carbon tetrachloride	µg/l	10	< 0.01	0.01	0.03	0.01		II
Trichloroethylene	µg/l	10	< 0.01	0.02	0.05	0.02		II
Tetrachloroethylene	µg/l	10	0.01	0.04	0.06	0.04		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Inn/Salzach  
 Distance from the mouth 47  
 Location: Left

Catchment: 6113 km2  
 Altitude: 140 m  
 2006  
 D04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	78.0	262.3	1438.7	204.7	501.0	
Temperature	°C	26	0.0	7.5	13.5	8.1	12.5	
Suspended solids	mg/l	26	< 3.0	105.6	2260.0	11.5	58.0	
Dissolved oxygen	mg/l	26	< 8.4	11.4	14.0	11.6	9.6	I
BOD (5)	mg/l	26	< 1.0	2.3	4.0	2.4	3.4	II
COD (Mn)	mg/l	12	1.7	2.3	4.9	2.0	2.7	I
COD (Cr)	mg/l							
TOC	mg/l	26	1.1	5.4	91.0	2.1	2.8	
DOC	mg/l	11	1.0	1.7	3.4	1.5	2.2	
pH	-	26	8.0	8.2	8.4	8.2	8.3	II
							8.0	II
Alkalinity - total	mmol/l	13	1.9	3.3	9.7	2.7	4.3	
Ammonium (NH4-N)	mg/l	26	< 0.020	0.028	0.060	0.020	0.040	I
Nitrite (NO2-N)	mg/l	26	< 0.005	0.007	0.011	0.006	0.010	I
Nitrate (NO3-N)	mg/l	26	0.390	0.682	1.200	0.640	0.895	I
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26	< 0.005	0.010	0.019	0.009	0.015	I
Total phosphorus	mg/l	26	0.017	0.113	1.890	0.031	0.078	I
Total phosphorus, dissolved	mg/l	26	0.007	0.012	0.020	0.012	0.017	
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	162	288	410	291	370	
Calcium (Ca++)	mg/l	13	25.6	42.7	54.5	43.9	52.7	
Sulphate (SO4--)	mg/l	13	11.0	21.1	32.0	21.0	30.6	
Magnesium (Mg++)	mg/l	13	6.3	10.2	15.1	10.0	12.5	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	26	0.0060	0.0389	0.1200	0.0230	0.0825	
Iron (Fe)	mg/l	26	0.010	0.715	3.000	0.270	1.750	
Chloride (Cl-)	mg/l	26	3.2	9.8	23.0	8.9	17.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	26	< 10.00	10.00	10.00	10.00	10.00	**
Copper (Cu), dissolved	µg/l	26	1.00	1.19	2.00	1.00	2.00	II
Chromium (Cr), total dissolved	µg/l	26	< 1.00	1.00	1.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	26	< 1.00	1.00	1.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	26	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	26	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	26	< 1.00	1.04	2.00	1.00	1.00	II
Arsenic (As), dissolved	µg/l	26	< 1.00	1.00	1.00	1.00	1.00	II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10.00	10.38	20.00	10.00	10.00	II
Copper (Cu)	µg/l	26	1.00	3.42	13.00	2.50	5.50	II
Chromium (Cr) - total	µg/l	26	< 1.00	1.58	6.00	1.00	2.50	II
Lead (Pb)	µg/l	26	< 1.00	1.54	6.00	1.00	2.50	II
Cadmium (Cd)	µg/l	26	< 0.10	0.10	0.10	0.10	0.10	II
Mercury (Hg)	µg/l	26	< 0.100	0.112	0.300	0.100	0.100	II
Nickel (Ni)	µg/l	26	< 1.00	2.08	7.00	1.00	4.00	II
Arsenic (As)	µg/l	26	1.00	1.58	8.00	1.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	13	< 10.00	< 10.00	< 10.00	10.00	10.00	I
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	13	< 0.01	0.03	0.20	0.01	0.02	I
Carbon tetrachloride	µg/l	13	< 0.01	0.01	0.03	0.01	0.02	I
Trichloroethylene	µg/l	13	< 0.01	< 0.01	< 0.01	0.01	0.01	I
Tetrachloroethylene	µg/l	13	< 0.01	0.03	0.05	0.03	0.04	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 2204  
 Location: Middle

Catchment: 77086 km2  
 Altitude: 100 m  
 2006  
 A01

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	564.0	1409.8	3027.0	1264.0	2366.6	
Temperature	°C	12	0.2	9.6	19.8	9.8	16.4	
Suspended solids	mg/l	12	< 0.5	14.1	39.3	12.4	29.9	
Dissolved oxygen	mg/l	12	8.8	10.9	13.6	11.0	9.0	I
BOD (5)	mg/l	12	< 0.5	1.2	2.4	1.2	1.5	I
COD (Mn)	mg/l	12	1.5	3.7	5.6	3.6	5.2	II
COD (Cr)	mg/l	12	2.8	6.5	8.4	6.9	8.1	I
TOC	mg/l	12	1.5	2.4	3.5	2.4	3.3	
DOC	mg/l	12	1.3	2.2	3.5	2.3	2.8	
pH	-	12	8.1	8.3	8.5	8.3	8.4	II
							8.2	II
Alkalinity - total	mmol/l	12	2.6	3.2	3.9	3.2	3.6	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.044	0.151	0.028	0.101	I
Nitrite (NO2-N)	mg/l	12	0.006	0.014	0.028	0.010	0.027	II
Nitrate (NO3-N)	mg/l	12	1.420	2.343	3.580	2.205	3.197	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.037	0.070	0.038	0.054	II
Total phosphorus	mg/l	12	0.022	0.052	0.086	0.053	0.062	I
Total phosphorus, dissolved	mg/l	12	< 0.005	0.043	0.077	0.043	0.057	
Chlorophyll A	µg/l	1	8.4	8.4	8.4			I
Conductivity	µS/cm	12	304	395	510	382	489	
Calcium (Ca++)	mg/l	12	43.0	53.6	64.8	53.1	63.8	
Sulphate (SO4--)	mg/l	12	17.2	25.1	33.8	25.1	29.9	
Magnesium (Mg++)	mg/l	12	9.9	12.6	15.7	12.6	15.4	
Potassium (K+)	mg/l	12	1.6	2.2	3.5	2.0	3.1	
Sodium (Na+)	mg/l	12	6.9	11.5	23.4	10.4	18.7	
Manganese (Mn)	mg/l	12	0.0060	0.0195	0.0480	0.0165	0.0303	
Iron (Fe)	mg/l	12	0.110	0.363	0.980	0.240	0.685	
Chloride (Cl-)	mg/l	12	11.2	20.3	39.0	17.9	34.3	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.40	2.29	4.50	1.95	3.16	II
Copper (Cu), dissolved	µg/l	12	< 0.70	1.12	1.40	1.20	1.39	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	0.77	1.20	0.70	0.97	II
Arsenic (As), dissolved	µg/l	12	< 0.70	0.74	1.20	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12	< 7.00	11.42	18.00	11.50	16.90	
Zinc (Zn)	µg/l	12	1.80	3.47	10.50	2.70	5.30	II
Copper (Cu)	µg/l	12	< 0.70	1.43	2.40	1.50	1.89	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.68	1.50	0.60	0.60	II
Lead (Pb)	µg/l	12	< 0.80	0.88	1.40	0.80	1.07	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.03	2.20	0.85	1.39	II
Arsenic (As)	µg/l	12	< 0.70	0.98	1.60	1.00	1.29	II
Aluminium (Al)	µg/l	12	54.00	189.25	567.00	152.50	345.80	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.006	0.034	0.148	0.023	0.094	
AOX	µg/l	12	6.09	9.95	15.10	9.95	13.03	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	0.04	0.05	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.01	2.01	2.01			II
Macrozoobenthos no. of taxa	-	1	44	44	44			
Total coliforms (37 C)	1000CFU/100m	12	0.300	2.721	12.300	1.850	5.025	
Faecal coliforms (44 C)	1000CFU/100m	12	0.050	0.343	0.930	0.295	0.816	
Faecal streptococci	1000CFU/100m	12	0.020	0.045	0.160	0.030	0.087	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 84869 km2	2006
Distance from the mouth 2113	Altitude: 290 m	A02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	652.0	1583.2	3390.0	1420.0	2584.6	
Temperature	°C	12	1.1	10.4	19.9	10.6	17.5	
Suspended solids	mg/l	12	2.2	16.9	65.2	10.6	36.3	
Dissolved oxygen	mg/l	12	9.0	11.2	14.0	11.1	9.0	I
BOD (5)	mg/l	12	< 0.5	1.1	1.9	1.0	1.8	I
COD (Mn)	mg/l	12	1.5	3.5	7.1	3.2	4.2	I
COD (Cr)	mg/l	12	3.4	7.1	8.9	7.3	8.9	I
TOC	mg/l	12	1.4	2.2	3.6	2.2	2.8	
DOC	mg/l	12	1.1	2.1	3.5	2.1	2.6	
pH	-	12	8.1	8.3	8.5	8.3	8.4	II
							8.1	II
Alkalinity - total	mmol/l	12	2.9	3.4	4.2	3.4	3.9	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.051	0.158	0.029	0.105	I
Nitrite (NO2-N)	mg/l	12	0.006	0.017	0.031	0.011	0.031	II
Nitrate (NO3-N)	mg/l	12	1.550	2.488	3.450	2.420	3.123	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.034	0.072	0.033	0.049	I
Total phosphorus	mg/l	12	0.019	0.048	0.088	0.045	0.062	I
Total phosphorus, dissolved	mg/l	12	< 0.005	0.040	0.079	0.041	0.053	
Chlorophyll A	µg/l	1	11.0	11.0	11.0			I
Conductivity	µS/cm	12	332	419	504	409	502	
Calcium (Ca++)	mg/l	12	47.0	57.6	73.1	55.7	67.1	
Sulphate (SO4--)	mg/l	12	12.4	25.1	33.7	27.2	30.8	
Magnesium (Mg++)	mg/l	12	10.6	13.0	18.6	12.5	15.2	
Potassium (K+)	mg/l	12	1.8	2.4	3.9	2.3	2.8	
Sodium (Na+)	mg/l	12	8.1	13.9	20.6	13.3	20.4	
Manganese (Mn)	mg/l	12	0.0060	0.0224	0.0620	0.0185	0.0406	
Iron (Fe)	mg/l	12	0.130	0.421	1.250	0.310	1.024	
Chloride (Cl-)	mg/l	12	13.0	24.2	37.7	22.0	36.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.10	2.20	3.80	2.15	2.60	II
Copper (Cu), dissolved	µg/l	12	< 0.70	0.99	1.40	0.90	1.39	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	0.79	1.40	0.70	1.06	III
Arsenic (As), dissolved	µg/l	12	< 0.70	0.73	1.00	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12	< 7.00	11.67	21.00	10.50	17.80	
Zinc (Zn)	µg/l	12	1.40	7.50	48.20	3.95	7.69	II
Copper (Cu)	µg/l	12	1.10	1.69	3.50	1.45	2.97	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.72	1.50	0.60	1.05	II
Lead (Pb)	µg/l	12	< 0.80	1.10	1.70	0.80	1.60	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.38	2.50	1.15	2.36	II
Arsenic (As)	µg/l	12	< 0.70	1.16	4.70	0.70	1.20	II
Aluminium (Al)	µg/l	12	57.00	207.17	622.00	160.00	482.40	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.006	0.033	0.124	0.023	0.111	
AOX	µg/l	12	7.68	10.44	17.60	9.89	12.98	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.17	2.17	2.17			II
Macrozoobenthos no. of taxa	-	1	35	35	35			
Total coliforms (37 C)	1000CFU/100m	12	0.180	3.195	16.300	1.625	7.275	
Faecal coliforms (44 C)	1000CFU/100m	12	0.020	0.418	1.410	0.255	1.137	
Faecal streptococci	1000CFU/100m	12	0.020	0.053	0.160	0.040	0.105	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube  
 Distance from the mouth 1935  
 Location: Right

Catchment: 101700 km2  
 Altitude: 251 m  
 2006  
 A03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	779.0	2018.3	7102.0	1557.0	3525.6	
Temperature	°C	12	1.2	10.4	19.4	10.8	17.3	
Suspended solids	mg/l	12	< 0.5	22.7	64.1	10.7	55.5	
Dissolved oxygen	mg/l	12	9.1	11.3	13.9	11.5	9.3	I
BOD (5)	mg/l	12	0.9	1.3	3.0	1.2	1.9	I
COD (Mn)	mg/l	12	1.5	3.6	6.5	3.6	4.2	I
COD (Cr)	mg/l	12	5.7	7.6	10.0	7.4	9.7	I
TOC	mg/l	12	1.3	2.6	4.8	2.5	3.6	
DOC	mg/l	12	1.0	2.1	3.5	2.3	2.8	
pH	-	12	8.2	8.3	8.6	8.3	8.4	II
							8.2	II
Alkalinity - total	mmol/l	12	2.6	3.2	3.8	3.1	3.6	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.041	0.230	0.021	0.057	I
Nitrite (NO2-N)	mg/l	12	0.005	0.016	0.037	0.010	0.032	II
Nitrate (NO3-N)	mg/l	12	1.370	2.181	3.150	1.965	2.946	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.035	0.096	0.031	0.049	I
Total phosphorus	mg/l	12	0.016	0.049	0.120	0.044	0.062	I
Total phosphorus, dissolved	mg/l	12	< 0.005	0.041	0.107	0.036	0.052	
Chlorophyll A	µg/l	1	14.3	14.3	14.3			I
Conductivity	µS/cm	12	293	384	503	375	488	
Calcium (Ca++)	mg/l	12	41.8	53.8	64.9	52.9	62.5	
Sulphate (SO4--)	mg/l	12	16.0	25.6	36.9	26.9	31.8	
Magnesium (Mg++)	mg/l	12	9.5	12.6	14.8	12.7	14.4	
Potassium (K+)	mg/l	12	1.5	2.1	3.6	2.0	2.6	
Sodium (Na+)	mg/l	12	6.3	11.2	19.5	9.9	18.7	
Manganese (Mn)	mg/l	12	0.0060	0.0242	0.0620	0.0175	0.0469	
Iron (Fe)	mg/l	12	0.080	0.492	1.860	0.245	1.133	
Chloride (Cl-)	mg/l	12	10.1	19.5	35.4	17.5	33.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 0.80	2.17	5.40	1.80	3.18	II
Copper (Cu), dissolved	µg/l	12	< 0.70	1.13	1.70	1.15	1.59	II
Chromium (Cr), total dissolved	µg/l	12	< 0.60	0.67	1.40	0.60	0.60	II
Lead (Pb), dissolved	µg/l	12	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 0.70	0.99	3.50	0.70	1.09	III
Arsenic (As), dissolved	µg/l	12	< 0.70	0.73	1.10	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12	< 7.00	17.42	58.00	7.00	38.50	
Zinc (Zn)	µg/l	12	1.80	4.68	9.10	4.30	7.89	II
Copper (Cu)	µg/l	12	1.20	1.92	3.80	1.50	2.80	II
Chromium (Cr) - total	µg/l	12	< 0.60	0.84	2.10	0.60	1.38	II
Lead (Pb)	µg/l	12	< 0.80	1.03	1.90	0.80	1.65	II
Cadmium (Cd)	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	1.51	3.50	1.05	3.10	II
Arsenic (As)	µg/l	12	< 0.70	0.93	2.40	0.70	1.28	II
Aluminium (Al)	µg/l	12	42.00	244.92	905.00	136.50	527.80	
Phenol index	mg/l	12	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	11	< 0.006	0.034	0.114	0.023	0.093	
AOX	µg/l	12	6.11	9.96	15.70	10.05	13.97	II
Petroleum hydrocarbons	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	12	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	1.96	1.96	1.96			II
Macrozoobenthos no. of taxa	-	1	30	30	30			
Total coliforms (37 C)	1000CFU/100m	12	0.080	2.697	13.100	1.325	6.800	
Faecal coliforms (44 C)	1000CFU/100m	12	0.030	0.349	1.180	0.175	0.728	
Faecal streptococci	1000CFU/100m	12	0.010	0.044	0.110	0.030	0.088	
Salmonella	No/1l	12	0.0	0.1	1.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1879  
 Location: Right

Catchment: 130759 km2  
 Altitude: 159 m  
 2006  
 A04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	808.0	2183.1	7530.0	1690.0	3954.4	
Temperature	°C	24	0.3	10.3	19.6	11.1	17.6	
Suspended solids	mg/l	24	< 0.5	27.0	213.7	13.0	63.4	
Dissolved oxygen	mg/l	24	< 8.6	11.0	13.5	11.0	9.4	I
BOD (5)	mg/l	24	< 0.5	1.4	3.7	1.2	2.0	I
COD (Mn)	mg/l	12	1.6	3.6	6.5	3.4	4.8	I
COD (Cr)	mg/l	24	4.6	7.7	17.1	6.9	10.4	II
TOC	mg/l	24	1.5	2.3	4.4	2.0	3.1	
DOC	mg/l	24	1.4	2.1	4.2	1.8	2.8	
pH	-	24	7.9	8.1	8.4	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	24	2.5	3.2	3.9	3.1	3.6	
Ammonium (NH4-N)	mg/l	24	< 0.004	0.036	0.148	0.023	0.103	I
Nitrite (NO2-N)	mg/l	24	0.004	0.015	0.043	0.011	0.031	II
Nitrate (NO3-N)	mg/l	24	1.330	2.120	3.320	1.890	3.180	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	< 0.003	0.032	0.053	0.035	0.047	I
Total phosphorus	mg/l	24	0.023	0.046	0.081	0.045	0.065	I
Total phosphorus, dissolved	mg/l	24	0.009	0.038	0.057	0.040	0.054	
Chlorophyll A	µg/l	1	6.0	6.0	6.0			I
Conductivity	µS/cm	24	263	381	508	356	492	
Calcium (Ca++)	mg/l	24	40.3	53.0	62.8	52.5	62.1	
Sulphate (SO4--)	mg/l	24	17.6	27.7	41.9	26.9	33.8	
Magnesium (Mg++)	mg/l	24	9.2	12.8	16.0	13.1	14.9	
Potassium (K+)	mg/l	24	1.6	2.2	3.1	2.1	2.8	
Sodium (Na+)	mg/l	24	5.7	11.4	21.0	9.5	19.1	
Manganese (Mn)	mg/l	24	0.0060	0.0222	0.0750	0.0135	0.0559	
Iron (Fe)	mg/l	24	0.060	0.465	2.530	0.265	0.944	
Chloride (Cl-)	mg/l	24	10.2	20.0	38.4	17.1	35.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24	< 0.80	2.21	6.00	1.65	4.16	II
Copper (Cu), dissolved	µg/l	24	< 0.70	1.10	1.80	1.15	1.40	II
Chromium (Cr), total dissolved	µg/l	24	< 0.60	< 0.60	< 0.60	0.60	0.60	II
Lead (Pb), dissolved	µg/l	24	< 0.80	< 0.80	< 0.80	0.80	0.80	II
Cadmium (Cd), dissolved	µg/l	24	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	24	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	24	< 0.70	0.72	1.20	0.70	0.70	II
Arsenic (As), dissolved	µg/l	24	< 0.70	0.77	1.20	0.70	1.07	III
Aluminium (Al), dissolved	µg/l	24	< 7.00	11.38	26.00	8.50	18.00	
Zinc (Zn)	µg/l	24	< 0.80	4.29	9.80	3.70	7.51	II
Copper (Cu)	µg/l	24	1.00	1.84	4.40	1.60	2.57	II
Chromium (Cr) - total	µg/l	24	< 0.60	0.75	2.80	0.60	1.09	II
Lead (Pb)	µg/l	24	< 0.80	1.07	2.60	0.80	1.80	II
Cadmium (Cd)	µg/l	24	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Mercury (Hg)	µg/l	24	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	24	< 0.70	1.16	3.50	1.05	1.67	II
Arsenic (As)	µg/l	24	< 0.70	0.91	2.10	0.70	1.45	II
Aluminium (Al)	µg/l	24	35.00	231.38	1278.00	128.00	434.60	
Phenol index	mg/l	24	0.0030	0.0030	0.0030	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	24	< 0.006	0.023	0.109	0.006	0.072	
AOX	µg/l	24	4.96	10.57	18.90	9.61	14.71	II
Petroleum hydrocarbons	mg/l	24	< 0.040	< 0.040	: 0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	23	< 0.025	< 0.025	: 0.025	0.025	0.025	II
Chloroform	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	0.05	0.11	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.14	2.14	2.14			II
Macrozoobenthos no. of taxa	-	1	26	26	26			
Total coliforms (37 C)	1000CFU/100m	24	0.400	3.512	15.800	1.895	8.165	
Faecal coliforms (44 C)	1000CFU/100m	24	0.070	0.499	1.600	0.345	1.007	
Faecal streptococci	1000CFU/100m	24	0.020	0.070	0.240	0.050	0.135	
Salmonella	No/1l	11	0.0	0.1	1.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Morava	Catchment: 9725 km2	2006
Distance from the mouth 79	Altitude: 150 m	CZ01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s	365	9.0	74.9	533.0	35.8	175.2		
Temperature	°C	12	0.1	11.7	23.8	10.7	22.7		
Suspended solids	mg/l	12	5.0	44.1	136.0	36.5	107.2		
Dissolved oxygen	mg/l	12	10.0	12.7	16.9	12.6	10.4	I	
BOD (5)	mg/l	12	1.1	4.8	11.2	3.2	10.5	IV	
COD (Mn)	mg/l	12	3.5	5.6	9.2	5.4	8.3	II	
COD (Cr)	mg/l	12	11.4	17.3	29.8	15.1	25.9	III	
TOC	mg/l	12	3.7	4.3	5.1	4.2	4.9		
DOC	mg/l	12	3.6	4.1	5.0	4.0	4.8		
pH	-	12	7.9	8.2	8.7	8.1	8.6	III	
							7.9	II	
Alkalinity - total	mmol/l	12	1.9	2.9	4.0	2.9	3.7		
Ammonium (NH4-N)	mg/l	12	0.040	0.248	0.960	0.090	0.683	IV	
Nitrite (NO2-N)	mg/l	12	0.019	0.035	0.053	0.035	0.052	II	
Nitrate (NO3-N)	mg/l	12	0.690	2.763	5.230	2.720	4.112	III	
Total nitrogen	mg/l								
Organic nitrogen	mg/l	11	<	0.20	0.56	1.71	0.57	0.66	
Orthophosphate (PO4-P)	mg/l	12	<	0.010	0.058	0.110	0.050	0.109	III
Total phosphorus	mg/l	12		0.046	0.164	0.601	0.124	0.243	III
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	12	<	2.5	32.4	152.0	17.5	76.4	III
Conductivity	µS/cm	12		367	538	712	535	678	
Calcium (Ca++)	mg/l	12		39.3	61.2	85.7	62.8	77.4	
Sulphate (SO4--)	mg/l	12		33.8	66.8	84.8	72.8	83.2	
Magnesium (Mg++)	mg/l	12		7.1	11.5	14.7	12.5	14.3	
Potassium (K+)	mg/l	12		3.0	5.2	7.4	5.3	6.4	
Sodium (Na+)	mg/l	12		10.6	23.3	35.0	23.7	34.3	
Manganese (Mn)	mg/l	12		0.0750	0.2114	0.8390	0.1395	0.3042	
Iron (Fe)	mg/l	12		0.142	0.771	3.450	0.399	1.439	
Chloride (Cl-)	mg/l	12		15.9	31.5	53.7	30.9	43.7	
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l	12	<	5.00	7.93	15.90	7.10	12.64	III
Copper (Cu), dissolved	µg/l	12		0.83	1.43	2.00	1.47	1.90	II
Chromium (Cr), total dissolved	µg/l	12		0.56	1.04	1.50	1.04	1.39	II
Lead (Pb), dissolved	µg/l	12	<	0.50	0.51	0.58	0.50	0.50	II
Cadmium (Cd), dissolved	µg/l	12	<	0.05	<	0.05	<	0.05	II
Mercury (Hg), dissolved	µg/l	12	<	0.100	0.101	0.110	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12		2.41	3.53	4.56	3.50	4.45	III
Arsenic (As), dissolved	µg/l	12	<	1.00	1.18	1.90	1.00	1.48	III
Aluminium (Al), dissolved	µg/l	3	<	5.00	7.43	12.30			
Zinc (Zn)	µg/l	12		5.97	18.50	61.20	12.95	26.17	II
Copper (Cu)	µg/l	12		1.91	3.86	12.80	3.01	5.42	II
Chromium (Cr) - total	µg/l	12		0.99	2.00	5.04	1.59	2.91	II
Lead (Pb)	µg/l	12		0.55	2.21	9.10	1.29	4.26	II
Cadmium (Cd)	µg/l	12	<	0.05	0.07	0.22	0.05	0.10	II
Mercury (Hg)	µg/l	12	<	0.100	0.125	0.400	0.100	0.100	II
Nickel (Ni)	µg/l	12		3.07	4.80	8.50	4.10	6.37	II
Arsenic (As)	µg/l	12	<	1.00	1.54	2.99	1.40	1.98	II
Aluminium (Al)	µg/l	12		60.80	338.93	1210.00	214.00	760.40	
Phenol index	mg/l	11		0.0008	0.0013	0.0036	0.0008	0.0029	
Anionic active surfactants (PAL-A)	mg/l								
AOX	µg/l	12		11.10	14.85	23.00	13.85	18.82	II
Petroleum hydrocarbons	mg/l	9	<	0.030	<	0.030	<	0.030	
PAHs (Borneff 6)	µg/l	12		0.008	0.034	0.103	0.017	0.093	
PCBs (7 congeners)	µg/l	12		0.002000	0.002000	0.002000	0.002000	0.002000	
Lindane (gama-HCH)	µg/l	12		0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12		0.0020	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	12		0.007	0.016	0.027	0.015	0.026	II
Chloroform	µg/l	12	<	0.03	<	0.03	<	0.03	II
Carbon tetrachloride	µg/l	12	<	0.10	<	0.10	<	0.10	II
Trichloroethylene	µg/l	12	<	0.10	<	0.10	<	0.10	II
Tetrachloroethylene	µg/l	12	<	0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	1		1.82	1.82	1.82			II
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	12		0.400	3.267	9.200	2.600	7.460	
Faecal coliforms (44 C)	1000CFU/100m	12		0.200	1.908	6.800	1.200	4.580	
Faecal streptococci	1000CFU/100m	12		0.200	1.133	4.000	0.700	3.400	
Salmonella	No/1l	12		0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Morava/Dyje  
 Distance from the mouth 17  
 Location: Middle

Catchment: 12540 km2  
 Altitude: 290 m  
 2006  
 CZ02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	14.0	54.7	430.0	28.1	122.1	
Temperature	°C	12	1.0	12.0	24.1	12.0	21.3	
Suspended solids	mg/l	12	7.0	17.9	54.0	11.5	31.8	
Dissolved oxygen	mg/l	12	6.9	11.4	16.6	11.0	7.3	I
BOD (5)	mg/l	12	1.1	2.8	4.6	2.7	4.1	II
COD (Mn)	mg/l	12	5.9	7.4	9.8	7.2	7.9	II
COD (Cr)	mg/l	12	17.4	21.5	30.9	20.0	25.9	III
TOC	mg/l	12	6.7	7.8	8.7	7.8	8.5	
DOC	mg/l	12	6.5	7.5	8.6	7.5	8.4	
pH	-	12	7.8	8.1	9.0	8.0	8.2	II
							7.9	II
Alkalinity - total	mmol/l	12	1.8	2.8	4.2	3.1	3.4	
Ammonium (NH4-N)	mg/l	12	0.040	0.205	0.410	0.180	0.363	III
Nitrite (NO2-N)	mg/l	12	0.014	0.047	0.094	0.036	0.089	III
Nitrate (NO3-N)	mg/l	12	0.770	3.358	8.110	2.880	5.602	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	11	0.57	0.86	1.83	0.78	1.00	
Orthophosphate (PO4-P)	mg/l	12 <	0.010	0.159	0.370	0.135	0.229	IV
Total phosphorus	mg/l	12	0.101	0.229	0.393	0.237	0.370	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12 <	2.5	17.5	108.0	6.2	31.3	II
Conductivity	µS/cm	12	498	665	922	666	816	
Calcium (Ca++)	mg/l	12	42.1	55.1	69.7	55.2	67.8	
Sulphate (SO4--)	mg/l	12	55.1	111.9	162.0	117.0	134.7	
Magnesium (Mg++)	mg/l	12	17.0	23.1	32.1	23.2	26.9	
Potassium (K+)	mg/l	12	5.9	8.7	11.3	8.9	11.0	
Sodium (Na+)	mg/l	12	18.8	30.6	48.9	28.7	46.6	
Manganese (Mn)	mg/l	12	0.0720	0.1420	0.2710	0.1330	0.1770	
Iron (Fe)	mg/l	12	0.136	0.304	0.765	0.276	0.534	
Chloride (Cl-)	mg/l	12	21.9	41.3	68.6	39.1	66.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	5.00	6.96	16.50	5.65	9.06	III
Copper (Cu), dissolved	µg/l	12	1.38	2.03	2.37	2.10	2.33	III
Chromium (Cr), total dissolved	µg/l	12	0.65	1.28	2.38	1.22	2.08	III
Lead (Pb), dissolved	µg/l	12 <	0.50 <	0.50 <	0.50 <	0.50	0.50	II
Cadmium (Cd), dissolved	µg/l	12 <	0.05 <	0.05 <	0.05 <	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12 <	0.100 <	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	2.99	4.24	4.83	4.25	4.71	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.90	3.20	1.90	2.66	III
Aluminium (Al), dissolved	µg/l	3	< 5.00	< 5.00	< 5.00			
Zinc (Zn)	µg/l	12	5.74	11.70	18.20	12.60	15.65	II
Copper (Cu)	µg/l	12	2.04	3.24	4.98	3.06	4.08	II
Chromium (Cr) - total	µg/l	12	0.87	1.70	3.48	1.52	2.34	II
Lead (Pb)	µg/l	12 <	0.50	0.98	2.29	0.87	1.40	II
Cadmium (Cd)	µg/l	12 <	0.05 <	0.05 <	0.05 <	0.05	0.05	II
Mercury (Hg)	µg/l	12 <	0.100	0.105	0.160	0.100	0.100	II
Nickel (Ni)	µg/l	12	4.15	4.98	6.98	4.77	5.61	II
Arsenic (As)	µg/l	12	1.47	2.21	3.75	2.12	2.92	II
Aluminium (Al)	µg/l	12	54.40	180.85	492.00	157.00	326.10	
Phenol index	mg/l	11	0.0008	0.0012	0.0033	0.0008	0.0020	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	12	14.40	24.48	35.70	22.65	35.29	II
Petroleum hydrocarbons	mg/l	9 <	0.030	0.033	0.060	0.030		
PAHs (Borneff 6)	µg/l	12	0.008	0.016	0.028	0.015	0.025	
PCBs (7 congeners)	µg/l	12	0.002000	0.002333	0.004000	0.002000	0.003800	
Lindane (gama-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	12	0.018	0.026	0.031	0.028	0.030	II
Chloroform	µg/l	12 <	0.03 <	0.03 <	0.03 <	0.03	0.03	II
Carbon tetrachloride	µg/l	12 <	0.10 <	0.10 <	0.10 <	0.10	0.10	II
Trichloroethylene	µg/l	12 <	0.10 <	0.10 <	0.10 <	0.10	0.10	II
Tetrachloroethylene	µg/l	12 <	0.10	0.10	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	1	2.01	2.01	2.01			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.700	2.617	7.200	1.900	4.910	
Faecal coliforms (44 C)	1000CFU/100m	12	0.400	1.675	5.400	1.100	2.740	
Faecal streptococci	1000CFU/100m	12	0.200	0.608	1.700	0.500	0.980	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 131329 km2	2006
Distance from the mouth 1869	Altitude: 128 m	SK01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C		1.1	10.3	21.4	8.9	18.0	
Suspended solids	mg/l	25	5.0	37.7	142.0	28.0	99.4	
Dissolved oxygen	mg/l	12	7.6	10.6	13.5	10.9	7.9	I
BOD (5)	mg/l	25	< 0.4	1.4	2.8	1.4	1.9	I
COD (Mn)	mg/l	12	2.0	3.3	6.1	3.0	5.2	II
COD (Cr)	mg/l	12	10.9	15.6	24.7	14.9	21.5	II
TOC	mg/l	12	2.1	4.9	6.9	4.9	6.6	
DOC	mg/l							
pH	-	12	7.8	8.0	8.3	8.0	8.2	II
							7.8	II
Alkalinity - total	mmol/l	12	2.2	3.1	4.0	3.1	3.8	
Ammonium (NH4-N)	mg/l	25	< 0.010	0.070	0.220	0.040	0.182	I
Nitrite (NO2-N)	mg/l	25	0.004	0.017	0.040	0.011	0.035	II
Nitrate (NO3-N)	mg/l	25	1.220	2.279	4.300	1.910	3.516	III
Total nitrogen	mg/l	12	1.71	2.93	5.03	2.58	4.10	III
Organic nitrogen	mg/l	12	< 0.10	0.42	0.88	0.37	0.55	
Orthophosphate (PO4-P)	mg/l	12	0.037	0.056	0.086	0.054	0.073	II
Total phosphorus	mg/l	25	0.040	0.103	0.180	0.100	0.150	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	2.0	11.0	23.9	9.1	22.8	I
Conductivity	µS/cm	12	349	452	620	431	583	
Calcium (Ca++)	mg/l	12	45.2	57.8	72.0	58.5	70.7	
Sulphate (SO4--)	mg/l	12	26.9	36.6	49.0	34.7	47.2	
Magnesium (Mg++)	mg/l	12	10.7	13.6	17.3	14.0	16.7	
Potassium (K+)	mg/l	12	1.9	2.9	3.9	2.8	3.6	
Sodium (Na+)	mg/l	12	9.0	14.4	23.8	12.1	23.5	
Manganese (Mn)	mg/l	12	0.0190	0.0478	0.0840	0.0405	0.0815	
Iron (Fe)	mg/l	12	0.154	0.677	3.080	0.427	1.378	
Chloride (Cl-)	mg/l	25	13.4	22.2	41.0	18.5	38.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3	< 20.00	< 20.00	< 20.00			**
Copper (Cu), dissolved	µg/l	3	1.20	1.20	1.20			II
Chromium (Cr), total dissolved	µg/l	3	< 0.20	0.27	0.40			II
Lead (Pb), dissolved	µg/l	3	1.40	1.67	2.10			III
Cadmium (Cd), dissolved	µg/l	3	< 0.05	< 0.05	< 0.05			II
Mercury (Hg), dissolved	µg/l	3	< 0.100	< 0.100	: 0.100			II
Nickel (Ni), dissolved	µg/l	3	< 1.00	1.00	1.00			II
Arsenic (As), dissolved	µg/l	3	< 1.00	< 1.00	< 1.00			II
Aluminium (Al), dissolved	µg/l	3	41.00	45.67	54.00			
Zinc (Zn)	µg/l	1	< 20.00	< 20.00	< 20.00			II
Copper (Cu)	µg/l	1	2.00	2.00	2.00			II
Chromium (Cr) - total	µg/l	1	0.40	0.40	0.40			II
Lead (Pb)	µg/l	1	1.50	1.50	1.50			II
Cadmium (Cd)	µg/l	1	< 0.05	< 0.05	< 0.05			II
Mercury (Hg)	µg/l	1	< 0.100	< 0.100	: 0.100			II
Nickel (Ni)	µg/l	1	4.00	4.00	4.00			II
Arsenic (As)	µg/l	1	< 1.00	< 1.00	< 1.00			II
Aluminium (Al)	µg/l	1	84.00	84.00	84.00			
Phenol index	mg/l	12	0.0060	0.0060	0.0060	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.030	0.033	0.040	0.030	0.040	
AOX	µg/l	12	13.80	19.83	37.80	17.75	27.16	II
Petroleum hydrocarbons	mg/l	12	0.010	0.028	0.050	0.030	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l	2	0.011	0.011	0.011			I
Chloroform	µg/l	2	2.50	2.55	2.60			V
Carbon tetrachloride	µg/l	2	< 1.20	< 1.20	< 1.20			**
Trichloroethylene	µg/l	2	< 1.70	< 1.70	< 1.70			**
Tetrachloroethylene	µg/l	2	< 2.10	< 2.10	< 2.10			**
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.600	3.283	18.000	2.200	3.050	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.100	0.800	3.000	0.550	1.710	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 131329 km2	2006
Distance from the mouth 1869	Altitude: 128 m	SK01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class		
Flow	m3/s	365	832.9	2186.1	7823.0	1649.0	3979.4			
Temperature	°C	12	1.3	10.4	21.2	9.1	18.0			
Suspended solids	mg/l	25	5.0	41.2	174.0	25.0	115.6			
Dissolved oxygen	mg/l	12	7.6	10.8	14.1	11.2	8.1	I		
BOD (5)	mg/l	25	< 0.4	1.2	2.0	1.3	1.8	I		
COD (Mn)	mg/l	12	1.9	3.2	6.0	2.9	4.6	I		
COD (Cr)	mg/l	12	11.1	15.1	24.2	13.9	20.2	II		
TOC	mg/l	12	1.8	4.5	6.6	4.8	6.4			
DOC	mg/l									
pH	-	12	7.9	8.1	8.3	8.1	8.3	II		
							7.9	II		
Alkalinity - total	mmol/l	12	2.3	3.1	4.0	3.1	3.8			
Ammonium (NH4-N)	mg/l	25	<	0.010	0.062	0.190	0.030	0.168	I	
Nitrite (NO2-N)	mg/l	25		0.004	0.016	0.043	0.011	0.034	II	
Nitrate (NO3-N)	mg/l	25		1.270	2.168	3.630	1.900	3.302	III	
Total nitrogen	mg/l	12		1.76	2.72	4.01	2.48	3.96	II	
Organic nitrogen	mg/l	12	<	0.10	0.35	0.71	0.34	0.49		
Orthophosphate (PO4-P)	mg/l	12		0.030	0.050	0.083	0.045	0.068	II	
Total phosphorus	mg/l	25		0.030	0.094	0.170	0.090	0.150	II	
Total phosphorus, dissolved	mg/l	12		0.030	0.054	0.080	0.055	0.070		
Chlorophyll A	µg/l	12		1.2	9.3	17.3	8.3	15.8	I	
Conductivity	µS/cm	12		347	438	604	411	575		
Calcium (Ca++)	mg/l	12		45.8	57.3	72.5	57.4	70.4		
Sulphate (SO4--)	mg/l	12		21.9	31.6	45.4	29.0	43.0		
Magnesium (Mg++)	mg/l	12		9.8	13.3	17.5	13.3	16.7		
Potassium (K+)	mg/l	12		1.9	2.6	3.6	2.6	3.5		
Sodium (Na+)	mg/l	12		8.0	13.6	23.7	11.2	23.0		
Manganese (Mn)	mg/l	12		0.0090	0.0420	0.0870	0.0340	0.0840		
Iron (Fe)	mg/l	12		0.124	0.762	3.370	0.457	2.106		
Chloride (Cl-)	mg/l	25		12.3	21.1	39.7	17.6	38.1		
Silicates (SiO2)	mg/l									
Zinc (Zn), dissolved	µg/l	12	<	20.00	<	20.00	20.00	20.00	**	
Copper (Cu), dissolved	µg/l	12	<	0.50	1.07	1.60	1.00	1.49	II	
Chromium (Cr), total dissolved	µg/l	12	<	0.20	0.23	0.40	0.20	0.29	II	
Lead (Pb), dissolved	µg/l	12	<	1.00	1.48	2.30	1.30	2.27	III	
Cadmium (Cd), dissolved	µg/l	12	<	0.05	<	0.05	0.05	0.05	II	
Mercury (Hg), dissolved	µg/l	12	<	0.100	<	0.100	:	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	<	1.00	1.46	2.40	1.40	1.90	III	
Arsenic (As), dissolved	µg/l	12	<	1.00	<	1.00	<	1.00	1.00	II
Aluminium (Al), dissolved	µg/l	12	<	5.00	21.75	47.00	18.00	43.10		
Zinc (Zn)	µg/l	3	<	20.00	<	20.00	<	20.00	II	
Copper (Cu)	µg/l	3		1.10	1.37	1.60			II	
Chromium (Cr) - total	µg/l	3		0.30	0.30	0.30			II	
Lead (Pb)	µg/l	3		1.00	1.67	2.10			II	
Cadmium (Cd)	µg/l	3	<	0.05	<	0.05	<	0.05	II	
Mercury (Hg)	µg/l	3	<	0.100	<	0.100	:	0.100	II	
Nickel (Ni)	µg/l	3	<	1.00	2.00	2.80			II	
Arsenic (As)	µg/l	3	<	1.00	<	1.00	<	1.00	II	
Aluminium (Al)	µg/l	3		80.00	155.33	217.00				
Phenol index	mg/l	12		0.0060	0.0061	0.0070	0.0060	0.0060		
Anionic active surfactants (PAL-A)	mg/l	12	<	0.030	0.031	0.040	0.030	0.030		
AOX	µg/l	12		12.20	17.44	29.10	16.50	20.15	II	
Petroleum hydrocarbons	mg/l	12		0.010	0.022	0.050	0.020	0.030		
PAHs (Borneff 6)	µg/l									
PCBs (7 congeners)	µg/l									
Lindane (gama-HCH)	µg/l	2		0.0050	0.0050	0.0050			I	
pp-DDT	µg/l	2		0.0270	0.0270	0.0270			**	
Atrazine	µg/l	2	<	0.003	0.006	0.008			I	
Chloroform	µg/l	2	<	1.80	1.85	1.90			**	
Carbon tetrachloride	µg/l	2	<	1.20	<	1.20	<	1.20	**	
Trichloroethylene	µg/l	2	<	1.70	<	1.70	<	1.70	**	
Tetrachloroethylene	µg/l	2	<	2.10	<	2.10	<	2.10	**	
Macrozoobenthos sapr. index	-									
Macrozoobenthos no. of taxa	-									
Total coliforms (37 C)	1000CFU/100m	12		0.500	3.267	22.000	1.750	2.720		
Faecal coliforms (44 C)	1000CFU/100m									
Faecal streptococci	1000CFU/100m	12		0.000	0.600	2.700	0.400	1.490		
Salmonella	No/1l									

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 131329 km2	2006
Distance from the mouth 1869	Altitude: 108 m	SK01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	1.6	10.2	20.6	8.9	17.2	
Suspended solids	mg/l	25	5.0	36.2	161.0	24.0	93.6	
Dissolved oxygen	mg/l	12	7.6	10.9	14.1	11.2	8.0	I
BOD (5)	mg/l	25	< 0.4	1.2	2.4	1.2	2.0	I
COD (Mn)	mg/l	12	1.5	3.1	6.2	2.6	4.5	I
COD (Cr)	mg/l	12	10.6	14.7	23.2	14.3	19.6	II
TOC	mg/l	12	2.0	4.9	7.0	5.3	7.0	
DOC	mg/l							
pH	-	12	8.0	8.1	8.3	8.2	8.3	II
							8.0	II
Alkalinity - total	mmol/l	12	2.4	3.2	4.0	3.1	3.8	
Ammonium (NH4-N)	mg/l	25	< 0.010	0.059	0.190	0.040	0.122	I
Nitrite (NO2-N)	mg/l	25	0.004	0.016	0.045	0.012	0.035	II
Nitrate (NO3-N)	mg/l	25	1.270	2.268	5.880	1.910	3.206	III
Total nitrogen	mg/l	12	1.73	2.60	3.84	2.33	3.50	II
Organic nitrogen	mg/l	12	< 0.10	0.32	0.45	0.34	0.44	
Orthophosphate (PO4-P)	mg/l	12	0.028	0.045	0.085	0.041	0.056	II
Total phosphorus	mg/l	25	0.030	0.082	0.160	0.070	0.140	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	2.3	7.4	11.5	7.7	10.3	I
Conductivity	µS/cm	12	344	430	586	405	561	
Calcium (Ca++)	mg/l	12	45.1	56.7	70.6	57.0	69.0	
Sulphate (SO4--)	mg/l	12	18.6	27.6	39.2	26.4	36.1	
Magnesium (Mg++)	mg/l	12	9.3	13.1	16.9	13.1	16.3	
Potassium (K+)	mg/l	12	1.7	2.3	3.3	2.2	2.9	
Sodium (Na+)	mg/l	12	7.7	12.9	22.0	10.8	21.9	
Manganese (Mn)	mg/l	12	0.0080	0.0337	0.0820	0.0230	0.0690	
Iron (Fe)	mg/l	12	0.090	0.585	2.790	0.289	1.142	
Chloride (Cl-)	mg/l	25	11.5	20.3	40.0	16.6	37.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3	< 20.00	< 20.00	< 20.00			**
Copper (Cu), dissolved	µg/l	3	0.60	1.03	1.40			II
Chromium (Cr), total dissolved	µg/l	3	< 0.20	< 0.20	< 0.20			II
Lead (Pb), dissolved	µg/l	3	< 1.00	1.40	1.70			II
Cadmium (Cd), dissolved	µg/l	3	< 0.05	< 0.05	< 0.05			II
Mercury (Hg), dissolved	µg/l	3	< 0.100	< 0.100	: 0.100			II
Nickel (Ni), dissolved	µg/l	3	< 1.00	1.13	1.40			II
Arsenic (As), dissolved	µg/l	3	< 1.00	< 1.00	< 1.00			II
Aluminium (Al), dissolved	µg/l	3	15.00	22.00	26.00			
Zinc (Zn)	µg/l	1	< 20.00	< 20.00	< 20.00			II
Copper (Cu)	µg/l	1	1.60	1.60	1.60			II
Chromium (Cr) - total	µg/l	1	0.50	0.50	0.50			II
Lead (Pb)	µg/l	1	1.90	1.90	1.90			II
Cadmium (Cd)	µg/l	1	< 0.05	< 0.05	< 0.05			II
Mercury (Hg)	µg/l	1	< 0.100	< 0.100	: 0.100			II
Nickel (Ni)	µg/l	1	1.60	1.60	1.60			II
Arsenic (As)	µg/l	1	< 1.00	< 1.00	< 1.00			II
Aluminium (Al)	µg/l	1	66.00	66.00	66.00			
Phenol index	mg/l	12	0.0060	0.0063	0.0090	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.030	0.032	0.040	0.030	0.039	
AOX	µg/l	12	12.70	20.83	34.20	18.65	32.17	II
Petroleum hydrocarbons	mg/l	12	0.020	0.025	0.050	0.020	0.030	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l	2	< 0.003	0.006	0.009			I
Chloroform	µg/l	2	< 1.80	2.15	2.50			**
Carbon tetrachloride	µg/l	2	< 1.20	< 1.20	< 1.20			**
Trichloroethylene	µg/l	2	< 1.70	< 1.70	< 1.70			**
Tetrachloroethylene	µg/l	2	< 2.10	< 2.10	< 2.10			**
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.500	3.267	18.000	1.950	3.620	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	0.558	1.700	0.450	1.350	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1806  
 Location: Middle

Catchment: 132168 km2  
 Altitude: 108 m  
 2006  
 SK02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	772.5	2127.1	7430.0	1686.0	3977.2	
Temperature	°C	12	0.0	11.0	22.4	10.3	17.6	
Suspended solids	mg/l	12	5.0	48.1	332.0	17.0	51.9	
Dissolved oxygen	mg/l	12	8.1	10.8	15.1	10.7	8.4	I
BOD (5)	mg/l	12	< 0.4	1.5	3.2	1.2	2.8	I
COD (Mn)	mg/l	12	2.2	3.2	5.4	2.8	4.8	I
COD (Cr)	mg/l	12	9.4	14.2	23.2	13.3	18.6	II
TOC	mg/l	12	1.7	5.0	7.4	5.3	7.2	
DOC	mg/l							
pH	-	12	7.9	8.1	8.3	8.1	8.3	II
							7.9	II
Alkalinity - total	mmol/l	12	2.4	3.1	4.0	3.1	3.9	
Ammonium (NH4-N)	mg/l	12	0.020	0.050	0.110	0.035	0.089	I
Nitrite (NO2-N)	mg/l	12	0.004	0.017	0.040	0.016	0.028	II
Nitrate (NO3-N)	mg/l	12	1.260	2.087	3.130	1.850	3.019	III
Total nitrogen	mg/l	12	1.75	2.48	3.62	2.24	3.52	II
Organic nitrogen	mg/l	12	< 0.10	0.33	0.49	0.34	0.49	
Orthophosphate (PO4-P)	mg/l	12	0.030	0.045	0.076	0.045	0.056	II
Total phosphorus	mg/l	12	0.050	0.093	0.290	0.080	0.108	II
Total phosphorus, dissolved	mg/l	12	0.030	0.051	0.070	0.055	0.070	
Chlorophyll A	µg/l	12	2.3	11.3	22.6	10.5	20.6	I
Conductivity	µS/cm	12	334	435	578	413	555	
Calcium (Ca++)	mg/l	12	44.2	57.6	72.3	57.7	70.3	
Sulphate (SO4--)	mg/l	12	20.7	28.7	41.1	27.4	37.6	
Magnesium (Mg++)	mg/l	12	9.6	13.3	17.3	13.2	16.6	
Potassium (K+)	mg/l	12	1.9	2.4	3.3	2.4	3.0	
Sodium (Na+)	mg/l	12	8.5	13.0	22.0	10.8	21.4	
Manganese (Mn)	mg/l	12	0.0230	0.0448	0.1660	0.0320	0.0487	
Iron (Fe)	mg/l	12	0.115	0.953	7.340	0.292	1.101	
Chloride (Cl-)	mg/l	12	12.4	20.6	36.9	17.0	35.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	20.25	23.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	< 0.50	0.96	1.50	0.90	1.39	II
Chromium (Cr), total dissolved	µg/l	12	< 0.20	0.23	0.40	0.20	0.29	II
Lead (Pb), dissolved	µg/l	12	< 1.00	1.38	2.80	1.10	2.04	III
Cadmium (Cd), dissolved	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.23	1.90	1.00	1.88	III
Arsenic (As), dissolved	µg/l	12	< 1.00	1.00	1.01	1.00	1.00	II
Aluminium (Al), dissolved	µg/l	12	< 5.00	20.83	61.00	18.00	44.40	
Zinc (Zn)	µg/l	3	< 20.00	< 20.00	< 20.00			II
Copper (Cu)	µg/l	3	1.00	1.50	2.00			II
Chromium (Cr) - total	µg/l	3	< 0.20	0.27	0.30			II
Lead (Pb)	µg/l	3	2.70	3.13	3.70			II
Cadmium (Cd)	µg/l	3	< 0.05	< 0.05	< 0.05			II
Mercury (Hg)	µg/l	3	< 0.100	< 0.100	: 0.100			II
Nickel (Ni)	µg/l	3	< 1.00	1.53	2.60			II
Arsenic (As)	µg/l	3	< 1.00	< 1.00	< 1.00			II
Aluminium (Al)	µg/l	3	131.00	185.33	237.00			
Phenol index	mg/l	12	0.0060	0.0061	0.0070	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.030	0.032	0.040	0.030	0.039	
AOX	µg/l	12	11.10	19.69	55.40	14.65	28.32	II
Petroleum hydrocarbons	mg/l	12	0.010	0.023	0.050	0.020	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l	2	< 0.003	0.008	0.012			I
Chloroform	µg/l	2	< 1.80	< 1.80	< 1.80			**
Carbon tetrachloride	µg/l	2	< 1.20	< 1.20	< 1.20			**
Trichloroethylene	µg/l	2	< 1.70	< 1.70	< 1.70			**
Tetrachloroethylene	µg/l	2	< 2.10	< 2.10	< 2.10			**
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.000	1.450	10.500	0.750	1.280	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	0.267	1.900	0.100	0.390	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 151961 km2	2006
Distance from the mouth 1768	Altitude: 103 m	SK03
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	853.8	2226.8	7473.0	1705.0	4129.8	
Temperature	°C	12	0.0	11.2	22.8	10.0	18.5	
Suspended solids	mg/l	12	7.0	40.0	177.0	20.5	84.1	
Dissolved oxygen	mg/l	12	7.5	10.7	14.7	10.6	8.0	I
BOD (5)	mg/l	12	< 0.4	1.6	2.7	1.6	2.5	I
COD (Mn)	mg/l	12	2.5	3.5	5.7	3.2	4.7	I
COD (Cr)	mg/l	12	10.1	14.9	22.2	14.3	20.1	II
TOC	mg/l	12	2.1	5.3	8.2	5.7	6.9	
DOC	mg/l							
pH	-	12	8.0	8.1	8.3	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	12	2.3	3.2	4.1	3.2	4.1	
Ammonium (NH4-N)	mg/l	12	0.030	0.078	0.190	0.050	0.158	I
Nitrite (NO2-N)	mg/l	12	0.003	0.020	0.043	0.019	0.038	II
Nitrate (NO3-N)	mg/l	12	1.400	2.360	3.970	2.015	3.548	III
Total nitrogen	mg/l	12	1.75	2.81	4.55	2.54	4.06	III
Organic nitrogen	mg/l	12	< 0.10	0.36	0.58	0.36	0.46	
Orthophosphate (PO4-P)	mg/l	12	0.037	0.055	0.087	0.052	0.078	II
Total phosphorus	mg/l	12	0.060	0.107	0.220	0.105	0.156	II
Total phosphorus, dissolved	mg/l	11	0.040	0.065	0.100	0.060	0.080	
Chlorophyll A	µg/l	12	0.5	11.3	29.6	11.9	18.8	I
Conductivity	µS/cm	12	355	463	655	433	615	
Calcium (Ca++)	mg/l	12	46.1	59.6	78.2	58.8	75.2	
Sulphate (SO4--)	mg/l	12	26.2	36.8	67.2	31.7	52.6	
Magnesium (Mg++)	mg/l	12	10.0	14.9	23.2	14.4	19.4	
Potassium (K+)	mg/l	12	2.3	2.8	4.3	2.6	3.7	
Sodium (Na+)	mg/l	12	9.7	14.6	24.7	12.4	23.5	
Manganese (Mn)	mg/l	12	0.0160	0.0425	0.1060	0.0385	0.0714	
Iron (Fe)	mg/l	12	0.165	0.649	3.160	0.289	1.130	
Chloride (Cl-)	mg/l	12	14.3	22.3	39.9	17.9	37.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	< 20.00	< 20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	< 0.50	1.04	1.80	0.95	1.67	II
Chromium (Cr), total dissolved	µg/l	12	< 0.20	0.23	0.50	0.20	0.29	II
Lead (Pb), dissolved	µg/l	12	< 1.00	1.34	2.40	1.00	2.37	III
Cadmium (Cd), dissolved	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.28	2.00	1.00	1.69	III
Arsenic (As), dissolved	µg/l	12	< 1.00	1.03	1.22	1.00	1.11	III
Aluminium (Al), dissolved	µg/l	12	< 5.00	24.75	86.00	15.00	67.10	
Zinc (Zn)	µg/l	3	< 20.00	< 20.00	< 20.00			II
Copper (Cu)	µg/l	3	1.40	1.50	1.60			II
Chromium (Cr) - total	µg/l	3	0.30	0.67	1.40			II
Lead (Pb)	µg/l	3	1.50	1.93	2.60			II
Cadmium (Cd)	µg/l	3	< 0.05	0.05	0.06			II
Mercury (Hg)	µg/l	3	< 0.100	< 0.100	: 0.100			II
Nickel (Ni)	µg/l	3	< 1.00	1.30	1.90			II
Arsenic (As)	µg/l	3	< 1.00	< 1.00	< 1.00			II
Aluminium (Al)	µg/l	3	85.00	276.33	443.00			
Phenol index	mg/l	12	0.0060	0.0061	0.0070	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.030	0.032	0.040	0.030	0.039	
AOX	µg/l	12	12.30	15.80	19.10	15.95	18.69	II
Petroleum hydrocarbons	mg/l	12	0.010	0.023	0.060	0.020	0.030	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l	2	0.012	0.014	0.015			I
Chloroform	µg/l	2	< 1.80	2.40	3.00			**
Carbon tetrachloride	µg/l	2	< 1.20	< 1.20	< 1.20			**
Trichloroethylene	µg/l	2	< 1.70	< 1.70	< 1.70			**
Tetrachloroethylene	µg/l	2	< 2.10	< 2.10	< 2.10			**
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.100	2.200	13.000	1.150	2.690	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	0.425	1.100	0.300	0.990	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Vah	Catchment: 19661 km2	2006
Distance from the mouth 1	Altitude: 106 m	SK04
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.0	11.4	25.1	9.7	21.3	
Suspended solids	mg/l	12	7.0	24.0	139.0	14.5	17.9	
Dissolved oxygen	mg/l	12	6.7	9.9	13.4	9.7	7.2	I
BOD (5)	mg/l	12	0.8	1.3	2.2	1.1	2.1	I
COD (Mn)	mg/l	12	2.3	3.1	4.9	3.0	3.4	I
COD (Cr)	mg/l	12	11.9	15.5	22.3	14.5	20.4	II
TOC	mg/l	12	2.1	5.1	7.3	5.5	6.7	
DOC	mg/l							
pH	-	12	7.9	8.1	8.2	8.1	8.2	II
							7.9	II
Alkalinity - total	mmol/l	12	2.3	3.3	4.3	3.2	4.1	
Ammonium (NH4-N)	mg/l	12	0.020	0.203	0.490	0.150	0.454	III
Nitrite (NO2-N)	mg/l	12	0.022	0.042	0.062	0.044	0.059	II
Nitrate (NO3-N)	mg/l	12	1.400	2.113	2.960	1.890	2.726	II
Total nitrogen	mg/l	12	2.01	2.82	4.02	2.51	3.68	II
Organic nitrogen	mg/l	12	0.32	0.46	0.74	0.43	0.60	
Orthophosphate (PO4-P)	mg/l	12	0.054	0.101	0.129	0.101	0.127	III
Total phosphorus	mg/l	12	0.110	0.145	0.180	0.145	0.169	II
Total phosphorus, dissolved	mg/l	12	0.050	0.107	0.160	0.110	0.147	
Chlorophyll A	µg/l	12	1.6	8.2	37.3	5.0	12.8	I
Conductivity	µS/cm	12	298	475	625	453	604	
Calcium (Ca++)	mg/l	12	43.3	61.6	78.4	60.4	75.9	
Sulphate (SO4--)	mg/l	12	23.9	42.0	63.9	40.4	53.6	
Magnesium (Mg++)	mg/l	12	7.5	14.5	20.1	14.3	18.3	
Potassium (K+)	mg/l	12	2.2	3.4	3.9	3.6	3.8	
Sodium (Na+)	mg/l	12	4.9	15.9	23.0	16.0	21.8	
Manganese (Mn)	mg/l	12	0.0180	0.0526	0.1310	0.0475	0.0866	
Iron (Fe)	mg/l	12	0.110	0.515	3.420	0.236	0.475	
Chloride (Cl-)	mg/l	12	7.7	21.4	31.1	21.1	31.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	< 20.00	< 20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	< 0.50	0.92	1.40	0.90	1.37	II
Chromium (Cr), total dissolved	µg/l	12	< 0.20	0.23	0.50	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12	< 1.00	1.16	1.80	1.00	1.67	III
Cadmium (Cd), dissolved	µg/l	12	< 0.05	0.05	0.05	0.05	0.05	II
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.28	2.60	1.00	2.11	III
Arsenic (As), dissolved	µg/l	12	< 1.00	2.02	4.12	1.94	2.49	III
Aluminium (Al), dissolved	µg/l	12	< 5.00	19.00	47.00	14.00	39.40	
Zinc (Zn)	µg/l	3	< 20.00	< 20.00	< 20.00			II
Copper (Cu)	µg/l	3	1.20	1.23	1.30			II
Chromium (Cr) - total	µg/l	3	0.20	0.23	0.30			II
Lead (Pb)	µg/l	3	< 1.00	1.07	1.20			II
Cadmium (Cd)	µg/l	3	< 0.05	0.05	0.06			II
Mercury (Hg)	µg/l	3	< 0.100	0.110	0.130			II
Nickel (Ni)	µg/l	3	< 1.00	1.80	3.00			II
Arsenic (As)	µg/l	3	1.71	2.85	4.46			II
Aluminium (Al)	µg/l	3	109.00	261.33	384.00			
Phenol index	mg/l	12	0.0060	0.0065	0.0120	0.0060	0.0060	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.030	0.035	0.050	0.030	0.049	
AOX	µg/l	12	12.50	23.18	63.60	19.90	26.41	II
Petroleum hydrocarbons	mg/l	12	0.010	0.023	0.030	0.020	0.030	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0050	0.0050	0.0050			I
pp-DDT	µg/l	2	0.0270	0.0270	0.0270			**
Atrazine	µg/l	2	0.008	0.013	0.019			I
Chloroform	µg/l	2	< 1.80	2.90	4.00			**
Carbon tetrachloride	µg/l	2	< 1.20	< 1.20	< 1.20			**
Trichloroethylene	µg/l	2	< 1.70	< 1.70	< 1.70			**
Tetrachloroethylene	µg/l	2	< 2.10	< 2.10	< 2.10			**
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.500	11.958	55.000	6.000	19.750	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	1.517	7.500	0.900	2.250	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1806  
 Location: Middle

Catchment: 131605 km2  
 Altitude: 101 m  
 2006  
 H01

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	1130.0	2623.2	8030.0	2020.0	4946.0	
Temperature	°C	12	1.3	11.1	22.4	10.3	17.6	
Suspended solids	mg/l	12	2.0	50.2	285.0	26.0	61.0	
Dissolved oxygen	mg/l	13	8.9	11.2	15.0	11.1	9.2	I
BOD (5)	mg/l	13	0.6	2.9	6.4	2.4	4.2	II
COD (Mn)	mg/l	13	2.1	3.2	5.7	2.7	5.0	I
COD (Cr)	mg/l	13	7.0	9.8	16.0	9.0	13.6	II
TOC	mg/l							
DOC	mg/l							
pH	-	13	7.5	7.9	8.2	8.0	8.1	II
							7.7	II
Alkalinity - total	mmol/l	12	2.6	3.3	3.9	3.3	3.9	
Ammonium (NH4-N)	mg/l	13 <	0.000	0.028	0.090	0.020	0.058	I
Nitrite (NO2-N)	mg/l	13	0.002	0.021	0.037	0.018	0.036	II
Nitrate (NO3-N)	mg/l	13	1.020	1.980	3.070	1.760	2.842	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	13	0.07	0.52	2.05	0.34	1.05	
Orthophosphate (PO4-P)	mg/l	13	0.015	0.045	0.071	0.046	0.065	II
Total phosphorus	mg/l	13	0.050	0.136	0.454	0.100	0.200	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13 <	2.0	9.9	28.4	9.5	18.0	I
Conductivity	µS/cm	13	298	395	490	373	471	
Calcium (Ca++)	mg/l	12	40.0	54.7	74.0	52.0	68.0	
Sulphate (SO4--)	mg/l	12	17.7	30.7	38.8	31.7	38.2	
Magnesium (Mg++)	mg/l	12	7.3	12.7	20.6	12.4	16.0	
Potassium (K+)	mg/l	12	4.0	4.0	4.0	4.0	4.0	
Sodium (Na+)	mg/l	12	9.0	14.5	23.0	12.2	22.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.9	25.0	44.0	22.4	37.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00	21.75	41.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12 <	0.70	7.38	34.40	4.50	10.35	III
Chromium (Cr), total dissolved	µg/l	12 <	3.00	3.40	7.80	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12 <	0.50	0.57	0.90	0.50	0.86	**
Mercury (Hg), dissolved	µg/l	12 <	0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.68	4.00	1.40	2.80	III
Arsenic (As), dissolved	µg/l	12 <	2.00	2.02	2.20	2.00	2.00	**
Aluminium (Al), dissolved	µg/l	12	46.00	63.42	94.00	58.00	82.50	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0114	0.0840	0.0020	0.0291	
Anionic active surfactants (PAL-A)	mg/l	13 <	0.040	0.040	0.045	0.040	0.040	
AOX	µg/l	10 <	10.00	11.46	15.20	10.00		II
Petroleum hydrocarbons	mg/l	12 <	0.020	0.031	0.098	0.023	0.043	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.1000	0.1000	0.1000	0.1000	0.1000	II
pp-DDT	µg/l	12	0.1000	0.1000	0.1000	0.1000	0.1000	**
Atrazine	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Chloroform	µg/l	12 <	1.00 <	1.00 <	1.00 <	1.00	1.00	**
Carbon tetrachloride	µg/l	12 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Trichloroethylene	µg/l	12 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Tetrachloroethylene	µg/l	12 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Macrozoobenthos sapr. index	-	2	3.80	3.90	4.00			V
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	13	2.000	39.923	350.000	10.000	36.200	
Faecal coliforms (44 C)	1000CFU/100m	12	0.200	4.100	25.000	2.000	7.240	
Faecal streptococci	1000CFU/100m	8	0.100	0.975	6.200	0.200		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 150820 km2	2006
Distance from the mouth 1768	Altitude: 101 m	H02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.3	12.3	22.4	11.7	18.6	
Suspended solids	mg/l	12	5.0	51.3	210.0	35.5	91.0	
Dissolved oxygen	mg/l	13	9.3	11.0	13.4	11.0	9.5	I
BOD (5)	mg/l	13	1.2	3.0	5.7	3.0	4.5	II
COD (Mn)	mg/l	13	2.3	3.6	6.4	3.1	4.8	I
COD (Cr)	mg/l	13	8.0	11.2	18.0	11.0	13.8	II
TOC	mg/l							
DOC	mg/l							
pH	-	13	7.4	8.0	8.3	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l	12	2.6	3.4	4.4	3.3	4.2	
Ammonium (NH4-N)	mg/l	11 <	0.000	0.045	0.150	0.020	0.140	I
Nitrite (NO2-N)	mg/l	11	0.007	0.026	0.043	0.027	0.040	II
Nitrate (NO3-N)	mg/l	11	1.400	2.279	3.660	1.900	3.280	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	11	0.04	0.55	1.37	0.42	1.31	
Orthophosphate (PO4-P)	mg/l	11	0.026	0.059	0.088	0.051	0.087	II
Total phosphorus	mg/l	13	0.070	0.156	0.330	0.130	0.272	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	2.4	11.1	37.9	9.5	17.6	I
Conductivity	µS/cm	13	314	420	557	385	534	
Calcium (Ca++)	mg/l	12	43.2	56.6	76.0	53.0	71.5	
Sulphate (SO4--)	mg/l	12	24.0	36.8	66.7	32.4	47.5	
Magnesium (Mg++)	mg/l	12	6.6	15.6	37.6	12.2	23.1	
Potassium (K+)	mg/l	12	4.0	4.0	4.4	4.0	4.0	
Sodium (Na+)	mg/l	12	11.4	16.4	27.5	13.5	27.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	17.4	26.7	44.7	22.0	41.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	9 <	20.00 <	20.00 <	20.00	20.00		**
Copper (Cu), dissolved	µg/l	9	2.80	4.36	6.00	4.60		III
Chromium (Cr), total dissolved	µg/l	9 <	3.00 <	3.00 <	3.00	3.00		**
Lead (Pb), dissolved	µg/l	9 <	3.00 <	3.00 <	3.00	3.00		**
Cadmium (Cd), dissolved	µg/l	9 <	0.50 <	0.50 <	0.50	0.50		**
Mercury (Hg), dissolved	µg/l	8 <	0.100 <	0.100 :	0.100	0.100		II
Nickel (Ni), dissolved	µg/l	9 <	1.00	1.11	2.00	1.00		III
Arsenic (As), dissolved	µg/l	9 <	2.00 <	2.00 <	2.00	2.00		**
Aluminium (Al), dissolved	µg/l	9	46.40	59.44	83.10	54.40		
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0020	0.0029	0.0080	0.0020		
Anionic active surfactants (PAL-A)	mg/l	12 <	0.040 <	0.040 :	0.040	0.040	0.040	
AOX	µg/l	9 <	10.00	12.84	25.60	10.00		II
Petroleum hydrocarbons	mg/l	10 <	0.020	0.038	0.096	0.032		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	13	4.000	38.846	200.000	18.000	74.200	
Faecal coliforms (44 C)	1000CFU/100m	6	0.600	4.600	16.000	1.700		
Faecal streptococci	1000CFU/100m	3	0.200	1.200	2.800			
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1768  
 Location: Middle

Catchment: 150820 km2  
 Altitude: 101 m  
 2006  
 H02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	933.0	2197.3	7340.0	1650.0	4056.0	
Temperature	°C	11	2.2	12.2	22.7	11.6	18.5	
Suspended solids	mg/l	12	6.0	48.6	196.0	33.5	82.2	
Dissolved oxygen	mg/l	13	8.4	11.0	13.4	11.0	9.3	I
BOD (5)	mg/l	13	1.1	3.0	5.7	2.9	4.9	II
COD (Mn)	mg/l	13	2.4	3.6	6.1	3.2	4.7	I
COD (Cr)	mg/l	13	7.0	11.8	20.0	11.0	16.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	13	7.4	8.0	8.3	8.0	8.1	II
							7.7	II
Alkalinity - total	mmol/l	12	2.6	3.4	4.4	3.3	4.2	
Ammonium (NH4-N)	mg/l	13 <	0.000	0.043	0.140	0.030	0.134	I
Nitrite (NO2-N)	mg/l	13	0.006	0.026	0.044	0.027	0.043	II
Nitrate (NO3-N)	mg/l	13	1.270	2.232	3.440	2.060	3.244	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	13	0.09	0.47	1.19	0.36	0.82	
Orthophosphate (PO4-P)	mg/l	13	0.028	0.060	0.084	0.061	0.084	II
Total phosphorus	mg/l	13	0.070	0.170	0.334	0.150	0.270	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	2.4	10.7	29.6	10.7	16.4	I
Conductivity	µS/cm	13	317	420	562	380	536	
Calcium (Ca++)	mg/l	12	40.8	55.5	78.0	52.4	76.2	
Sulphate (SO4--)	mg/l	12	23.0	36.5	67.7	32.2	49.4	
Magnesium (Mg++)	mg/l	12	9.2	15.1	24.3	14.0	22.7	
Potassium (K+)	mg/l	12	4.0	4.0	4.4	4.0	4.0	
Sodium (Na+)	mg/l	12	10.8	16.2	26.0	14.0	24.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	17.4	26.0	45.5	22.0	39.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	11 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	11 <	0.70	4.52	9.30	3.90	7.90	III
Chromium (Cr), total dissolved	µg/l	11 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	11 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	11 <	0.50	0.50	0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	11 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	11 <	1.00	1.05	1.40	1.00	1.20	III
Arsenic (As), dissolved	µg/l	11 <	2.00	2.00	2.00	2.00	2.00	**
Aluminium (Al), dissolved	µg/l	11	49.70	56.84	75.40	51.30	72.80	
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0047	0.0270	0.0020	0.0059	
Anionic active surfactants (PAL-A)	mg/l	13 <	0.040 <	0.040 :	0.040	0.040	0.040	
AOX	µg/l	10 <	10.00	13.77	27.20	10.35		II
Petroleum hydrocarbons	mg/l	12 <	0.020	0.047	0.168	0.035	0.077	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	10	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	10 <	0.100 <	0.100 :	0.100	0.100		II
Chloroform	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		**
Carbon tetrachloride	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Trichloroethylene	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Tetrachloroethylene	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Macrozoobenthos sapr. index	-	2	4.78	4.83	4.88			V
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	13	6.000	71.154	670.000	13.000	65.400	
Faecal coliforms (44 C)	1000CFU/100m	6	0.400	6.200	28.000	1.800		
Faecal streptococci	1000CFU/100m	3	0.100	0.933	1.800			
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 150820 km2	2006
Distance from the mouth 1768	Altitude: 100 m	H02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.2	12.2	22.8	11.7	18.4	
Suspended solids	mg/l	12	5.0	53.1	252.0	32.5	98.0	
Dissolved oxygen	mg/l	13	9.2	11.2	13.4	11.1	9.7	I
BOD (5)	mg/l	13	< 0.4	3.0	5.7	2.9	4.2	II
COD (Mn)	mg/l	13	2.4	3.6	5.7	3.2	5.2	II
COD (Cr)	mg/l	13	7.0	11.4	17.0	11.0	15.6	II
TOC	mg/l							
DOC	mg/l							
pH	-	13	7.5	7.9	8.3	8.0	8.1	II
							7.7	II
Alkalinity - total	mmol/l	12	2.6	3.4	4.4	3.4	4.2	
Ammonium (NH4-N)	mg/l	9	< 0.000	0.027	0.130	0.020		I
Nitrite (NO2-N)	mg/l	9	0.006	0.023	0.041	0.021		II
Nitrate (NO3-N)	mg/l	9	1.400	1.947	3.100	1.880		III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	9	0.03	0.62	1.19	0.67		
Orthophosphate (PO4-P)	mg/l	9	0.024	0.050	0.077	0.050		II
Total phosphorus	mg/l	13	0.080	0.181	0.398	0.160	0.338	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	< 2.0	11.4	36.7	10.7	18.2	I
Conductivity	µS/cm	13	277	413	558	379	540	
Calcium (Ca++)	mg/l	12	44.8	56.4	78.0	52.0	77.2	
Sulphate (SO4--)	mg/l	12	23.5	36.2	65.7	32.7	47.0	
Magnesium (Mg++)	mg/l	12	10.0	15.6	25.4	14.6	20.6	
Potassium (K+)	mg/l	12	4.0	4.0	4.4	4.0	4.0	
Sodium (Na+)	mg/l	12	10.8	16.0	27.5	14.0	24.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.9	25.7	42.6	22.0	39.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	8	< 20.00	< 20.00	< 20.00	20.00		**
Copper (Cu), dissolved	µg/l	8	0.80	4.29	9.20	3.50		III
Chromium (Cr), total dissolved	µg/l	8	< 3.00	< 3.00	< 3.00	3.00		**
Lead (Pb), dissolved	µg/l	8	< 3.00	< 3.00	< 3.00	3.00		**
Cadmium (Cd), dissolved	µg/l	8	< 0.50	< 0.50	< 0.50	0.50		**
Mercury (Hg), dissolved	µg/l	7	< 0.100	< 0.100	: 0.100	0.100		II
Nickel (Ni), dissolved	µg/l	8	< 1.00	1.63	3.10	1.40		III
Arsenic (As), dissolved	µg/l	8	< 2.00	2.00	2.00	2.00		**
Aluminium (Al), dissolved	µg/l	8	40.20	57.13	77.70	56.35		
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0020	0.0049	0.0170	0.0020		
Anionic active surfactants (PAL-A)	mg/l	12	< 0.040	< 0.040	: 0.040	0.040	0.040	
AOX	µg/l	9	< 10.00	13.18	30.90	10.00		II
Petroleum hydrocarbons	mg/l	10	< 0.020	0.037	0.059	0.035		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	13	9.000	42.462	170.000	18.000	112.000	
Faecal coliforms (44 C)	1000CFU/100m	6	0.400	7.200	30.000	2.400		
Faecal streptococci	1000CFU/100m	4	0.200	1.225	3.800	0.450		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 183350 km2	2006
Distance from the mouth 1708	Altitude: 100 m	H03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	0.1	12.5	25.7	12.5	22.3	
Suspended solids	mg/l	24	6.0	18.8	65.0	13.5	36.4	
Dissolved oxygen	mg/l	25	8.2	9.9	12.2	10.0	8.4	I
BOD (5)	mg/l	25	1.4	3.4	6.2	3.4	4.8	II
COD (Mn)	mg/l	25	2.4	4.2	8.3	3.8	5.5	II
COD (Cr)	mg/l	25	8.0	15.2	24.0	15.0	22.2	II
TOC	mg/l							
DOC	mg/l							
pH	-	25	7.9	8.2	8.7	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l	24	2.4	3.2	4.3	3.1	3.6	
Ammonium (NH4-N)	mg/l	25	0.010	0.097	0.330	0.060	0.194	I
Nitrite (NO2-N)	mg/l	25	0.005	0.020	0.044	0.018	0.030	II
Nitrate (NO3-N)	mg/l	25	1.020	2.152	3.620	2.010	3.190	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	24	0.01	0.09	0.32	0.05	0.23	
Orthophosphate (PO4-P)	mg/l	25 <	0.010	0.067	0.137	0.065	0.112	III
Total phosphorus	mg/l	25 <	0.020	0.107	0.230	0.110	0.168	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11 <	2.0	5.4	13.6	3.7	9.3	I
Conductivity	µS/cm	25	310	432	610	420	522	
Calcium (Ca++)	mg/l	24	41.9	54.8	75.8	56.3	63.4	
Sulphate (SO4--)	mg/l	24	24.2	55.9	94.1	53.3	82.3	
Magnesium (Mg++)	mg/l	24	10.0	16.6	26.0	16.8	21.5	
Potassium (K+)	mg/l	24	0.8	3.5	5.0	3.5	4.7	
Sodium (Na+)	mg/l	24	10.0	16.3	30.1	15.0	24.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	15.2	24.0	38.0	21.7	36.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	1.67	2.77	5.46	2.52	3.27	III
Chromium (Cr), total dissolved	µg/l	12 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12 <	0.50 <	0.50 <	0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.16	2.03	1.01	1.34	III
Arsenic (As), dissolved	µg/l	12 <	2.00	2.61	3.62	2.43	3.45	**
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11 <	20.00 <	20.00 <	20.00	20.00	20.00	II
Copper (Cu)	µg/l	11	2.02	4.21	9.79	3.46	7.09	II
Chromium (Cr) - total	µg/l	11 <	1.00	1.03	1.30	1.00	1.00	II
Lead (Pb)	µg/l	11 <	3.00	3.02	3.27	3.00	3.00	II
Cadmium (Cd)	µg/l	11 <	0.50 <	0.50 <	0.50	0.50	0.50	II
Mercury (Hg)	µg/l	11 <	0.100	0.101	0.110	0.100	0.100	II
Nickel (Ni)	µg/l	11 <	1.00	1.57	4.08	1.20	2.50	II
Arsenic (As)	µg/l	11 <	2.00	2.92	3.90	3.10	3.53	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0032	0.0100	0.0030	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	0.050	0.053	0.070	0.050	0.060	
AOX	µg/l	9 <	10.00	12.22	27.00	10.00		II
Petroleum hydrocarbons	mg/l	12 <	0.020	0.039	0.070	0.040	0.049	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	8	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	8 <	0.100 <	0.100 :	0.100	0.100		II
Chloroform	µg/l	8 <	1.00 <	1.00 <	1.00	1.00		**
Carbon tetrachloride	µg/l	8 <	1.00 <	1.00 <	1.00	1.00		II
Trichloroethylene	µg/l	8 <	1.00 <	1.00 <	1.00	1.00		II
Tetrachloroethylene	µg/l	8 <	1.00 <	1.00 <	1.00	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	14	4.000	26.193	80.000	22.000	47.000	
Faecal coliforms (44 C)	1000CFU/100m	10	2.000	10.300	30.000	5.500		
Faecal streptococci	1000CFU/100m	10	0.500	1.370	3.600	0.850		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1708  
 Location: Middle

Catchment: 183350 km2  
 Altitude: 100 m  
 2006  
 H03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	992.0	2503.1	9050.0	1930.0	4652.0	
Temperature	°C	23	1.4	12.9	26.5	12.4	21.7	
Suspended solids	mg/l	22	7.0	23.2	122.0	16.5	46.4	
Dissolved oxygen	mg/l	23	8.3	9.9	12.2	10.0	8.8	I
BOD (5)	mg/l	23	1.2	3.0	5.1	3.0	4.1	II
COD (Mn)	mg/l	23	1.9	3.5	6.5	3.5	4.4	I
COD (Cr)	mg/l	23	7.0	13.7	28.0	12.0	19.8	II
TOC	mg/l							
DOC	mg/l							
pH	-	23	8.0	8.3	8.7	8.2	8.4	II
							8.1	II
Alkalinity - total	mmol/l	22	2.4	3.0	4.1	3.0	3.4	
Ammonium (NH4-N)	mg/l	23	0.010	0.063	0.210	0.050	0.120	I
Nitrite (NO2-N)	mg/l	23 <	0.002	0.015	0.045	0.010	0.032	II
Nitrate (NO3-N)	mg/l	23	0.790	2.045	3.620	1.810	3.360	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	23	0.02	0.07	0.30	0.04	0.14	
Orthophosphate (PO4-P)	mg/l	23 <	0.010	0.038	0.101	0.036	0.064	II
Total phosphorus	mg/l	23 <	0.020	0.072	0.210	0.070	0.118	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	10 <	2.0	5.7	13.5	4.6		I
Conductivity	µS/cm	23	310	400	560	370	522	
Calcium (Ca++)	mg/l	22	41.9	52.8	63.5	53.3	61.5	
Sulphate (SO4--)	mg/l	22	29.1	51.4	98.8	52.1	65.6	
Magnesium (Mg++)	mg/l	22	9.1	15.0	21.7	15.3	18.4	
Potassium (K+)	mg/l	22	1.2	3.0	4.1	2.9	4.0	
Sodium (Na+)	mg/l	22	9.2	14.7	30.2	12.6	23.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	22	16.2	23.2	42.0	20.2	35.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	11 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	11	1.59	2.80	4.93	2.77	4.14	III
Chromium (Cr), total dissolved	µg/l	11 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	11 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	11 <	0.50 <	0.50 <	0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	11 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	11 <	1.00	1.03	1.12	1.00	1.09	III
Arsenic (As), dissolved	µg/l	11 <	2.00 <	2.00 <	2.00	2.00	2.00	**
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11 <	20.00 <	20.00 <	20.00	20.00	20.00	II
Copper (Cu)	µg/l	11	1.85	4.71	11.10	4.16	7.26	II
Chromium (Cr) - total	µg/l	11 <	1.00	1.01	1.10	1.00	1.00	II
Lead (Pb)	µg/l	11 <	3.00	3.02	3.18	3.00	3.00	II
Cadmium (Cd)	µg/l	11 <	0.50 <	0.50 <	0.50	0.50	0.50	II
Mercury (Hg)	µg/l	11 <	0.100	0.101	0.110	0.100	0.100	II
Nickel (Ni)	µg/l	11 <	1.00	1.53	3.69	1.33	2.26	II
Arsenic (As)	µg/l	11 <	2.00	2.02	2.20	2.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0020	0.0027	0.0090	0.0020	0.0030	
Anionic active surfactants (PAL-A)	mg/l	11	0.050	0.051	0.060	0.050	0.050	
AOX	µg/l	10 <	10.00	16.80	69.00	10.00		III
Petroleum hydrocarbons	mg/l	11 <	0.020	0.033	0.040	0.030	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	9	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	9 <	0.100 <	0.100 :	0.100	0.100		II
Chloroform	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		**
Carbon tetrachloride	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		II
Trichloroethylene	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		II
Tetrachloroethylene	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	6.000	12.250	30.000	11.000	16.800	
Faecal coliforms (44 C)	1000CFU/100m	10	0.600	4.610	20.000	2.300		
Faecal streptococci	1000CFU/100m	10	0.100	1.074	5.300	0.550		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 183350 km2	2006
Distance from the mouth 1708	Altitude: 89 m	H03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	0.1	12.3	26.1	12.0	21.3	
Suspended solids	mg/l	24	5.0	21.3	67.0	16.0	46.6	
Dissolved oxygen	mg/l	25	3.8	9.8	12.2	10.1	8.4	I
BOD (5)	mg/l	25	1.4	3.1	4.9	3.0	4.3	II
COD (Mn)	mg/l	25	2.0	3.7	6.5	3.4	4.7	I
COD (Cr)	mg/l	25	7.0	14.6	29.0	14.0	22.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	25	7.9	8.2	8.6	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l	24	2.6	3.1	4.2	3.1	3.8	
Ammonium (NH4-N)	mg/l	25	0.010	0.072	0.310	0.050	0.132	I
Nitrite (NO2-N)	mg/l	25	0.005	0.016	0.042	0.011	0.030	II
Nitrate (NO3-N)	mg/l	25	1.130	2.108	3.660	1.920	3.340	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	25	0.01	0.08	0.38	0.03	0.20	
Orthophosphate (PO4-P)	mg/l	25 <	0.010	0.042	0.114	0.039	0.080	II
Total phosphorus	mg/l	25 <	0.020	0.083	0.190	0.070	0.166	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11 <	2.0	5.9	14.1	4.0	11.8	I
Conductivity	µS/cm	25	310	420	610	380	552	
Calcium (Ca++)	mg/l	24	42.9	54.6	74.3	54.2	62.7	
Sulphate (SO4--)	mg/l	24	29.1	55.0	98.8	53.3	67.5	
Magnesium (Mg++)	mg/l	24	9.5	15.3	22.5	15.9	19.2	
Potassium (K+)	mg/l	24	2.4	3.5	5.0	3.2	4.9	
Sodium (Na+)	mg/l	24	9.3	15.6	28.4	13.8	23.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	16.2	25.1	42.0	20.2	40.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00 <	20.00 <	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	1.39	3.45	7.80	3.30	4.52	III
Chromium (Cr), total dissolved	µg/l	12 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12 <	3.00 <	3.00 <	3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12 <	0.50 <	0.50 <	0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	11 <	0.100	0.103	0.130	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.13	1.80	1.03	1.29	III
Arsenic (As), dissolved	µg/l	12 <	2.00 <	2.00 <	2.00	2.00	2.00	**
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	10 <	20.00 <	20.00 <	20.00	20.00		II
Copper (Cu)	µg/l	10	1.61	4.11	5.82	4.28		II
Chromium (Cr) - total	µg/l	10 <	1.00	1.00	1.00	1.00		II
Lead (Pb)	µg/l	10 <	3.00 <	3.00 <	3.00	3.00		II
Cadmium (Cd)	µg/l	10 <	0.50 <	0.50 <	0.50	0.50		II
Mercury (Hg)	µg/l	10 <	0.100	0.108	0.160	0.100		III
Nickel (Ni)	µg/l	10 <	1.00	1.36	2.17	1.30		II
Arsenic (As)	µg/l	10 <	2.00	2.16	3.60	2.00		II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0028	0.0090	0.0020	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12	0.050	0.054	0.070	0.050	0.069	
AOX	µg/l	9 <	10.00	12.33	29.00	10.00		II
Petroleum hydrocarbons	mg/l	12 <	0.020	0.032	0.040	0.030	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	9	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	9 <	0.100 <	0.100	0.100	0.100		II
Chloroform	µg/l	9 <	1.00	1.02	1.17	1.00		**
Carbon tetrachloride	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		II
Trichloroethylene	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		II
Tetrachloroethylene	µg/l	9 <	1.00 <	1.00 <	1.00	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	14	6.200	39.550	300.000	15.000	58.000	
Faecal coliforms (44 C)	1000CFU/100m	10	2.500	14.270	90.000	5.500		
Faecal streptococci	1000CFU/100m	10	0.200	4.260	35.000	0.550		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 188700 km2	2006
Distance from the mouth 1560	Altitude: 89 m	H04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.5	12.1	22.1	12.5	20.8	
Suspended solids	mg/l	12	4.0	24.3	53.0	21.0	43.2	
Dissolved oxygen	mg/l	12	7.9	10.6	13.9	10.4	9.0	I
BOD (5)	mg/l	12	< 0.4	2.2	4.1	2.3	3.6	II
COD (Mn)	mg/l	12	2.5	4.0	6.3	4.1	4.8	I
COD (Cr)	mg/l	12	10.0	16.1	21.0	16.0	20.9	II
TOC	mg/l							
DOC	mg/l	5	3.0	4.1	5.4	3.6		
pH	-	12	7.9	8.2	8.6	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l	12	2.4	3.3	4.2	3.2	3.8	
Ammonium (NH4-N)	mg/l	12	< 0.000	0.112	0.290	0.095	0.267	II
Nitrite (NO2-N)	mg/l	12	0.010	0.027	0.050	0.025	0.049	II
Nitrate (NO3-N)	mg/l	12	1.400	2.200	3.200	1.950	3.190	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12	0.27	0.51	0.96	0.48	0.87	
Orthophosphate (PO4-P)	mg/l	12	0.020	0.050	0.090	0.045	0.088	II
Total phosphorus	mg/l	12	0.080	0.145	0.280	0.145	0.178	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	< 2.0	15.3	87.0	7.7	18.8	I
Conductivity	µS/cm	12	312	407	555	374	510	
Calcium (Ca++)	mg/l	12	44.4	56.8	73.0	54.5	67.7	
Sulphate (SO4--)	mg/l	12	31.0	43.1	59.0	38.0	59.0	
Magnesium (Mg++)	mg/l	12	9.6	15.2	22.0	14.2	20.0	
Potassium (K+)	mg/l	12	2.1	3.1	4.8	2.9	4.1	
Sodium (Na+)	mg/l	12	9.6	15.0	26.9	13.0	23.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	13.0	22.4	37.0	18.5	34.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	20.50	26.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	1.20	2.92	6.70	2.35	5.82	III
Chromium (Cr), total dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12	< 3.00	3.11	4.30	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.16	2.10	1.00	1.30	III
Arsenic (As), dissolved	µg/l	12	< 2.00	< 2.00	< 2.00	2.00	2.00	**
Aluminium (Al), dissolved	µg/l	12	< 10.00	25.67	96.00	16.50	55.20	
Zinc (Zn)	µg/l	11	< 20.00	24.18	50.00	20.00	36.00	II
Copper (Cu)	µg/l	11	1.90	4.71	14.00	3.00	6.70	II
Chromium (Cr) - total	µg/l	11	< 1.00	2.59	14.00	1.00	2.70	II
Lead (Pb)	µg/l	11	< 3.00	4.29	13.00	3.00	5.50	III
Cadmium (Cd)	µg/l	11	< 0.50	< 0.50	< 0.50	0.50	0.50	II
Mercury (Hg)	µg/l	11	< 0.100	0.114	0.250	0.100	0.100	II
Nickel (Ni)	µg/l	11	< 1.00	3.57	9.80	1.80	9.50	II
Arsenic (As)	µg/l	11	< 2.00	2.02	2.20	2.00	2.00	II
Aluminium (Al)	µg/l	11	93.00	205.09	582.00	197.00	245.00	
Phenol index	mg/l	12	0.0030	0.0039	0.0100	0.0030	0.0066	
Anionic active surfactants (PAL-A)	mg/l	12	0.050	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.020	0.025	0.050	0.020	0.047	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	6	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	6	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	6	< 0.100	< 0.100	0.100	0.100		II
Chloroform	µg/l	6	< 1.00	2.40	6.90	1.00		**
Carbon tetrachloride	µg/l	6	< 1.00	< 1.00	< 1.00	1.00		II
Trichloroethylene	µg/l	6	< 1.00	< 1.00	< 1.00	1.00		II
Tetrachloroethylene	µg/l	6	< 1.00	< 1.00	< 1.00	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	8	50.000	216.825	650.000	161.500		
Faecal coliforms (44 C)	1000CFU/100m	11	5.700	41.745	130.000	32.500	92.000	
Faecal streptococci	1000CFU/100m	11	1.800	5.545	11.000	4.600	9.600	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1560  
 Location: Middle

Catchment: 188700 km2  
 Altitude: 89 m  
 2006  
 H04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	1060.0	2530.3	8460.0	1950.0	4756.0	
Temperature	°C	12	0.5	12.2	22.2	12.5	20.8	
Suspended solids	mg/l	12	4.0	26.1	82.0	20.5	38.7	
Dissolved oxygen	mg/l	12	8.2	10.6	14.0	10.2	8.6	I
BOD (5)	mg/l	12	1.3	2.5	4.3	2.1	3.9	II
COD (Mn)	mg/l	12	2.8	4.0	5.9	4.1	4.7	I
COD (Cr)	mg/l	12	11.0	16.4	24.0	15.5	22.8	II
TOC	mg/l							
DOC	mg/l	5	2.9	3.9	5.1	3.9		
pH	-	12	7.9	8.1	8.4	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	12	2.4	3.3	4.1	3.2	3.9	
Ammonium (NH4-N)	mg/l	12 <	0.000	0.108	0.250	0.080	0.249	II
Nitrite (NO2-N)	mg/l	12	0.010	0.023	0.050	0.020	0.040	II
Nitrate (NO3-N)	mg/l	12	1.400	2.275	3.900	1.950	3.270	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12	0.26	0.66	1.42	0.58	1.22	
Orthophosphate (PO4-P)	mg/l	12 <	0.010	0.043	0.090	0.035	0.070	II
Total phosphorus	mg/l	12	0.090	0.138	0.280	0.130	0.160	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12 <	2.0	14.7	75.0	8.4	23.5	I
Conductivity	µS/cm	12	314	412	560	374	547	
Calcium (Ca++)	mg/l	12	44.4	56.5	73.0	54.0	66.8	
Sulphate (SO4--)	mg/l	12	29.0	43.2	66.0	38.0	61.7	
Magnesium (Mg++)	mg/l	12	9.6	15.2	23.1	14.3	21.6	
Potassium (K+)	mg/l	12	2.0	3.1	4.7	3.0	4.0	
Sodium (Na+)	mg/l	12	9.6	15.2	27.4	13.4	24.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	13.0	22.9	40.0	18.5	34.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00	20.17	22.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	1.30	2.49	4.90	2.05	4.54	III
Chromium (Cr), total dissolved	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12 <	0.50 <	0.50 <	0.50 <	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12 <	0.100	0.113	0.250	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12 <	1.00	1.07	1.40	1.00	1.20	III
Arsenic (As), dissolved	µg/l	12 <	2.00	2.00	2.00	2.00	2.00	**
Aluminium (Al), dissolved	µg/l	12 <	10.00	25.92	93.00	16.00	38.80	
Zinc (Zn)	µg/l	11 <	20.00	23.73	45.00	20.00	31.00	II
Copper (Cu)	µg/l	11	1.30	4.80	13.00	3.00	8.00	II
Chromium (Cr) - total	µg/l	11 <	1.00	1.95	3.40	1.60	3.10	II
Lead (Pb)	µg/l	11 <	3.00	3.20	4.30	3.00	3.70	II
Cadmium (Cd)	µg/l	11 <	0.50 <	0.50 <	0.50 <	0.50	0.50	II
Mercury (Hg)	µg/l	11 <	0.100	0.114	0.250	0.100	0.100	II
Nickel (Ni)	µg/l	11 <	1.00	4.56	11.00	2.60	9.10	II
Arsenic (As)	µg/l	11 <	2.00	2.01	2.10	2.00	2.00	II
Aluminium (Al)	µg/l	11	51.00	386.18	1792.00	213.00	534.00	
Phenol index	mg/l	12	0.0030	0.0038	0.0100	0.0030	0.0048	
Anionic active surfactants (PAL-A)	mg/l	12	0.050	0.052	0.078	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.020	0.028	0.050	0.020	0.050	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	5	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	5 <	0.100 <	0.100 :	0.100	0.100		II
Chloroform	µg/l	5 <	1.00	1.16	1.80	1.00		**
Carbon tetrachloride	µg/l	5 <	1.00 <	1.00 <	1.00 <	1.00		II
Trichloroethylene	µg/l	5 <	1.00 <	1.00 <	1.00 <	1.00		II
Tetrachloroethylene	µg/l	5 <	1.00 <	1.00 <	1.00 <	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	8	40.000	235.250	540.000	207.500		
Faecal coliforms (44 C)	1000CFU/100m	11	2.500	41.773	165.000	31.500	54.000	
Faecal streptococci	1000CFU/100m	11	0.900	7.145	16.400	3.300	16.000	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube  
 Distance from the mouth 1560  
 Location: Right

Catchment: 188700 km2  
 Altitude: 79 m  
 2006  
 H04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.5	12.2	22.1	12.6	20.8	
Suspended solids	mg/l	11	9.0	25.0	49.0	20.0	42.0	
Dissolved oxygen	mg/l	11	6.9	9.9	12.4	10.0	7.8	I
BOD (5)	mg/l	11	< 0.4	2.4	3.6	2.4	3.3	II
COD (Mn)	mg/l	11	2.9	4.4	6.3	4.4	6.1	II
COD (Cr)	mg/l	11	11.0	16.9	23.0	16.0	22.0	II
TOC	mg/l							
DOC	mg/l	4	3.1	4.7	5.7	5.0		
pH	-	11	7.9	8.1	8.4	8.1	8.4	II
							8.0	II
Alkalinity - total	mmol/l	11	2.4	3.3	4.1	3.1	4.0	
Ammonium (NH4-N)	mg/l	11	< 0.000	0.097	0.230	0.060	0.220	II
Nitrite (NO2-N)	mg/l	11	0.010	0.024	0.050	0.020	0.040	II
Nitrate (NO3-N)	mg/l	11	1.300	2.200	4.100	1.900	3.300	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	11	0.27	0.54	0.88	0.55	0.75	
Orthophosphate (PO4-P)	mg/l	11	0.010	0.043	0.080	0.030	0.080	II
Total phosphorus	mg/l	11	0.070	0.142	0.280	0.130	0.160	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	< 2.0	15.6	82.0	9.3	21.0	I
Conductivity	µS/cm	11	314	413	565	364	540	
Calcium (Ca++)	mg/l	11	44.4	55.8	69.0	52.0	68.0	
Sulphate (SO4--)	mg/l	11	28.0	43.7	66.0	36.0	63.0	
Magnesium (Mg++)	mg/l	11	9.6	16.3	27.9	12.5	23.1	
Potassium (K+)	mg/l	11	2.0	3.3	4.7	3.2	4.2	
Sodium (Na+)	mg/l	11	9.5	15.9	27.6	14.0	23.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	13.0	22.0	38.0	16.0	35.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	11	< 20.00	< 20.00	< 20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	11	1.20	2.35	4.80	2.00	3.60	III
Chromium (Cr), total dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	11	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	11	< 0.100	0.105	0.150	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	11	< 1.00	1.05	1.20	1.00	1.10	III
Arsenic (As), dissolved	µg/l	11	< 2.00	< 2.00	< 2.00	2.00	2.00	**
Aluminium (Al), dissolved	µg/l	11	< 10.00	26.27	57.00	19.00	49.00	
Zinc (Zn)	µg/l	10	< 20.00	33.50	118.00	22.50		III
Copper (Cu)	µg/l	10	1.60	5.30	17.00	3.15		II
Chromium (Cr) - total	µg/l	10	< 1.00	2.09	4.60	1.25		II
Lead (Pb)	µg/l	10	< 3.00	3.17	4.70	3.00		II
Cadmium (Cd)	µg/l	10	< 0.50	< 0.50	< 0.50	0.50		II
Mercury (Hg)	µg/l	10	< 0.100	0.110	0.200	0.100		III
Nickel (Ni)	µg/l	10	< 1.00	7.77	43.00	2.55		II
Arsenic (As)	µg/l	10	< 2.00	2.03	2.20	2.00		II
Aluminium (Al)	µg/l	10	55.00	406.30	1092.00	330.00		
Phenol index	mg/l	11	0.0030	0.0041	0.0110	0.0030	0.0070	
Anionic active surfactants (PAL-A)	mg/l	11	0.050	0.051	0.056	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.020	0.069	0.500	0.020	0.050	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	6	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l	6	0.1000	0.1000	0.1000	0.1000		**
Atrazine	µg/l	6	< 0.100	< 0.100	: 0.100	0.100		II
Chloroform	µg/l	6	< 1.00	1.43	3.60	1.00		**
Carbon tetrachloride	µg/l	6	< 1.00	< 1.00	< 1.00	1.00		II
Trichloroethylene	µg/l	6	< 1.00	< 1.00	< 1.00	1.00		II
Tetrachloroethylene	µg/l	6	< 1.00	< 1.00	< 1.00	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	8	40.000	287.500	750.000	170.000		
Faecal coliforms (44 C)	1000CFU/100m	10	4.100	38.160	92.000	32.500		
Faecal streptococci	1000CFU/100m	10	1.600	6.590	15.800	4.550		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 211503 km2	2006
Distance from the mouth 1435	Altitude: 85 m	H05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class		
Flow	m3/s									
Temperature	°C	24	0.3	12.1	27.0	11.5	21.9			
Suspended solids	mg/l	24	5.0	23.1	54.0	22.0	37.8			
Dissolved oxygen	mg/l	24	7.8	10.4	14.0	10.2	8.5	I		
BOD (5)	mg/l	24	1.0	2.2	3.8	2.1	3.7	II		
COD (Mn)	mg/l	24	2.4	3.9	5.9	4.1	4.6	I		
COD (Cr)	mg/l	24	<	7.0	16.0	23.0	16.0	22.0	II	
TOC	mg/l									
DOC	mg/l	9	2.8	3.7	5.1	3.5				
pH	-	24	7.9	8.2	8.7	8.1	8.5	II		
							8.0	II		
Alkalinity - total	mmol/l	24	2.5	3.4	4.3	3.3	4.1			
Ammonium (NH4-N)	mg/l	24	<	0.020	0.101	0.280	0.065	0.247	II	
Nitrite (NO2-N)	mg/l	24		0.010	0.025	0.050	0.020	0.040	II	
Nitrate (NO3-N)	mg/l	24		0.800	2.154	3.400	1.950	3.200	III	
Total nitrogen	mg/l									
Organic nitrogen	mg/l	23		0.23	0.52	0.85	0.51	0.70		
Orthophosphate (PO4-P)	mg/l	24	<	0.010	0.044	0.090	0.040	0.070	II	
Total phosphorus	mg/l	24		0.060	0.127	0.250	0.120	0.177	II	
Total phosphorus, dissolved	mg/l									
Chlorophyll A	µg/l	23	<	1.0	16.2	104.0	8.4	23.0	I	
Conductivity	µS/cm	24		318	416	580	378	555		
Calcium (Ca++)	mg/l	24		42.1	57.4	75.0	54.2	71.0		
Sulphate (SO4--)	mg/l	24		29.0	42.9	69.0	39.0	59.7		
Magnesium (Mg++)	mg/l	24		8.7	15.6	22.1	15.4	20.0		
Potassium (K+)	mg/l	24		2.1	3.3	9.5	3.0	4.0		
Sodium (Na+)	mg/l	24		9.4	16.1	27.8	13.7	26.6		
Manganese (Mn)	mg/l	12		0.0200	0.0525	0.1000	0.0500	0.0900		
Iron (Fe)	mg/l	12	<	0.040	0.397	1.230	0.330	0.747		
Chloride (Cl-)	mg/l	24		13.0	23.0	37.0	20.2	37.0		
Silicates (SiO2)	mg/l									
Zinc (Zn), dissolved	µg/l	16	<	20.00	<	20.00	<	20.00	20.00	**
Copper (Cu), dissolved	µg/l	16	<	0.70	2.60	6.10	2.40	4.15	III	
Chromium (Cr), total dissolved	µg/l	16	<	3.00	<	3.00	<	3.00	3.00	**
Lead (Pb), dissolved	µg/l	16	<	3.00	<	3.00	<	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	16	<	0.50	<	0.50	<	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	16	<	0.100	0.109	0.250	0.100	0.100	II	
Nickel (Ni), dissolved	µg/l	16	<	1.00	1.21	2.30	1.00	1.80	III	
Arsenic (As), dissolved	µg/l	16	<	2.00	<	2.00	<	2.00	2.00	**
Aluminium (Al), dissolved	µg/l	13	<	10.00	23.15	80.00	15.00	32.80		
Zinc (Zn)	µg/l	12	<	20.00	23.58	45.00	20.00	28.00	II	
Copper (Cu)	µg/l	12		1.60	5.39	18.00	2.60	14.14	II	
Chromium (Cr) - total	µg/l	12	<	1.00	1.83	3.50	1.50	3.33	II	
Lead (Pb)	µg/l	12	<	3.00	3.09	4.10	3.00	3.00	II	
Cadmium (Cd)	µg/l	12	<	0.50	<	0.50	<	0.50	0.50	II
Mercury (Hg)	µg/l	12	<	0.100	0.113	0.250	0.100	0.100	II	
Nickel (Ni)	µg/l	12	<	1.00	2.48	7.40	1.30	5.24	II	
Arsenic (As)	µg/l	12	<	2.00	<	2.00	<	2.00	2.00	II
Aluminium (Al)	µg/l	12		62.00	327.83	894.00	155.00	846.50		
Phenol index	mg/l	23		0.0030	0.0033	0.0070	0.0030	0.0030		
Anionic active surfactants (PAL-A)	mg/l	23	<	0.020	0.024	0.104	0.020	0.020		
AOX	µg/l									
Petroleum hydrocarbons	mg/l	24	<	0.020	0.033	0.050	0.020	0.050		
PAHs (Borneff 6)	µg/l									
PCBs (7 congeners)	µg/l									
Lindane (gama-HCH)	µg/l	7		0.1000	0.1000	0.1000	0.1000		II	
pp-DDT	µg/l	6		0.1000	0.1000	0.1000	0.1000		**	
Atrazine	µg/l	7	<	0.100	<	0.100	:	0.100	0.100	II
Chloroform	µg/l	6	<	1.00	<	1.00	<	1.00	1.00	**
Carbon tetrachloride	µg/l	6	<	1.00	<	1.00	<	1.00	1.00	II
Trichloroethylene	µg/l	6	<	1.00	<	1.00	<	1.00	1.00	II
Tetrachloroethylene	µg/l	6	<	1.00	<	1.00	<	1.00	1.00	II
Macrozoobenthos sapr. index	-									
Macrozoobenthos no. of taxa	-									
Total coliforms (37 C)	1000CFU/100m	15		0.000	7.403	35.000	4.500	16.200		
Faecal coliforms (44 C)	1000CFU/100m	13		0.000	2.911	16.000	1.300	7.400		
Faecal streptococci	1000CFU/100m	13		0.000	0.485	2.090	0.380	1.212		
Salmonella	No/1l	13		0.0	0.0	0.0	0.0	0.0		

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sio	Catchment: 14693 km2	2006
Distance from the mouth 13	Altitude: 92 m	H06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	4.1	23.2	74.6	11.6	55.1	
Temperature	°C	16	0.2	11.0	26.1	7.3	23.3	
Suspended solids	mg/l	12	6.0	52.3	186.0	29.0	106.0	
Dissolved oxygen	mg/l	16	4.5	10.0	15.4	9.9	7.1	I
BOD (5)	mg/l	16	< 0.4	3.4	6.0	3.4	5.3	III
COD (Mn)	mg/l	9	5.4	8.6	11.0	8.6		III
COD (Cr)	mg/l	16	< 7.0	26.4	36.0	26.0	35.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	15	8.0	8.3	8.6	8.3	8.4	II
							8.1	II
Alkalinity - total	mmol/l	12	5.4	7.5	9.7	7.6	8.3	
Ammonium (NH4-N)	mg/l	15	0.040	0.276	1.150	0.180	0.584	III
Nitrite (NO2-N)	mg/l	15	0.010	0.056	0.119	0.054	0.079	III
Nitrate (NO3-N)	mg/l	15	0.720	4.018	8.590	3.840	6.238	IV
Total nitrogen	mg/l							
Organic nitrogen	mg/l	10	0.32	1.41	2.63	1.15		
Orthophosphate (PO4-P)	mg/l	15	0.093	0.236	0.411	0.205	0.364	IV
Total phosphorus	mg/l	15	0.110	0.363	0.663	0.342	0.594	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	8.9	43.6	94.7	35.5	88.2	III
Conductivity	µS/cm	15	790	965	1270	960	1082	
Calcium (Ca++)	mg/l	9	56.0	98.1	130.0	96.0		
Sulphate (SO4--)	mg/l	7	119.0	160.0	252.0	152.0		
Magnesium (Mg++)	mg/l	9	63.0	70.8	86.0	69.0		
Potassium (K+)	mg/l	6	8.1	10.1	14.0	9.7		
Sodium (Na+)	mg/l	7	44.0	53.7	67.0	50.0		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	7	36.0	48.1	69.0	46.0		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	8	< 20.00	20.50	24.00	20.00		**
Copper (Cu), dissolved	µg/l	8	< 0.70	2.43	7.00	2.00		III
Chromium (Cr), total dissolved	µg/l	8	< 3.00	< 3.00	< 3.00	3.00		**
Lead (Pb), dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	0.104	0.150	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.67	3.00	1.50	2.90	III
Arsenic (As), dissolved	µg/l	8	< 2.00	5.38	9.00	5.50		**
Aluminium (Al), dissolved	µg/l	8	16.00	38.13	88.00	28.50		
Zinc (Zn)	µg/l	7	< 20.00	24.14	33.00	23.00		II
Copper (Cu)	µg/l	7	2.00	4.29	8.00	3.00		II
Chromium (Cr) - total	µg/l	7	< 1.00	1.57	5.00	1.00		II
Lead (Pb)	µg/l	8	< 3.00	3.25	5.00	3.00		II
Cadmium (Cd)	µg/l	8	< 0.50	< 0.50	< 0.50	0.50		II
Mercury (Hg)	µg/l	8	< 0.100	0.114	0.190	0.100		III
Nickel (Ni)	µg/l	8	1.00	2.38	5.00	2.00		II
Arsenic (As)	µg/l	7	3.00	6.71	9.00	7.00		III
Aluminium (Al)	µg/l	7	332.00	816.29	2659.00	471.00		
Phenol index	mg/l	10	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	11	< 0.040	< 0.040	< 0.040	0.040	0.040	
AOX	µg/l	12	17.00	63.10	137.00	65.90	86.59	III
Petroleum hydrocarbons	mg/l	11	< 0.020	0.027	0.048	0.027	0.031	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	10.000	91.200	360.000	72.000		
Faecal coliforms (44 C)	1000CFU/100m	8	1.000	11.488	57.000	4.950		
Faecal streptococci	1000CFU/100m	8	0.400	1.900	4.000	1.600		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Drava  
 Distance from the mouth 78  
 Location: Middle

Catchment: 35764 km2  
 Altitude: 74 m  
 2006  
 H07

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s	365	202.0	474.2	1170.0	425.0	731.4		
Temperature	°C	7	2.5	5.8	13.7	3.8			
Suspended solids	mg/l	3	7.0	11.0	19.0				
Dissolved oxygen	mg/l	7	9.5	11.6	13.6	11.5		I	
BOD (5)	mg/l	7	2.4	3.6	6.3	3.4		III	
COD (Mn)	mg/l	7	2.4	3.3	4.4	3.4		I	
COD (Cr)	mg/l	7	7.0	10.0	13.0	10.0		II	
TOC	mg/l								
DOC	mg/l								
pH	-	7	7.8	7.9	8.0	7.9		II	
Alkalinity - total	mmol/l	3	3.5	3.7	4.0			II	
Ammonium (NH4-N)	mg/l	7	0.010	0.100	0.150	0.120		I	
Nitrite (NO2-N)	mg/l	7	0.012	0.016	0.023	0.017		II	
Nitrate (NO3-N)	mg/l	7	1.420	1.854	2.060	1.880		II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l	2	0.20	0.29	0.37				
Orthophosphate (PO4-P)	mg/l	7	0.029	0.054	0.068	0.059		II	
Total phosphorus	mg/l	7	0.070	0.084	0.100	0.080		I	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	7	2.0	4.9	13.0	3.1		I	
Conductivity	µS/cm	7	350	402	446	403			
Calcium (Ca++)	mg/l	3	65.8	67.4	70.0				
Sulphate (SO4--)	mg/l	3	40.7	47.0	51.4				
Magnesium (Mg++)	mg/l	3	9.4	11.8	15.9				
Potassium (K+)	mg/l	3	2.1	2.1	2.1				
Sodium (Na+)	mg/l	3	11.3	11.4	11.6				
Manganese (Mn)	mg/l								
Iron (Fe)	mg/l								
Chloride (Cl-)	mg/l	3	15.6	16.1	16.3				
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l	12	< 20.00	< 20.00	< 20.00	20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	< 0.70	< 0.93	< 1.10	1.00	1.10	1.10	II
Chromium (Cr), total dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	< 0.121	< 0.300	0.100	0.145	0.145	III
Nickel (Ni), dissolved	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	1.00	II
Arsenic (As), dissolved	µg/l	7	< 2.00	< 2.01	< 2.10	2.00			**
Aluminium (Al), dissolved	µg/l	12	< 10.00	< 13.67	< 24.00	11.00	21.80		
Zinc (Zn)	µg/l	7	< 20.00	< 20.00	< 20.00	20.00			II
Copper (Cu)	µg/l	7	< 1.00	< 1.40	< 2.50	1.10			II
Chromium (Cr) - total	µg/l	7	< 1.00	< 1.00	< 1.00	1.00			II
Lead (Pb)	µg/l	7	< 3.00	< 3.01	< 3.10	3.00			II
Cadmium (Cd)	µg/l	7	< 0.50	< 0.50	< 0.50	0.50			II
Mercury (Hg)	µg/l	7	< 0.100	< 0.100	< 0.100	0.100			II
Nickel (Ni)	µg/l	7	< 1.00	< 1.11	< 1.60	1.00			II
Arsenic (As)	µg/l	7	< 2.00	< 2.01	< 2.10	2.00			II
Aluminium (Al)	µg/l	7	< 8.50	< 144.64	< 334.00	128.00			
Phenol index	mg/l	2	0.0030	0.0035	0.0040				
Anionic active surfactants (PAL-A)	mg/l	3	< 0.040	< 0.047	< 0.060				
AOX	µg/l								
Petroleum hydrocarbons	mg/l	3	0.030	0.030	0.030				
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l								
pp-DDT	µg/l								
Atrazine	µg/l								
Chloroform	µg/l								
Carbon tetrachloride	µg/l								
Trichloroethylene	µg/l								
Tetrachloroethylene	µg/l								
Macrozoobenthos sapr. index	-	4	2.05	2.13	2.22	2.12			II
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	7	4.900	162.986	920.000	24.000			
Faecal coliforms (44 C)	1000CFU/100m	1	1.400	1.400	1.400				
Faecal streptococci	1000CFU/100m	1	0.200	0.200	0.200				
Salmonella	No/1l								

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Tisza	Catchment: 138498 km2	2006
Distance from the mouth 163	Altitude: 74 m	H08
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.1	12.8	24.8	14.3	22.5	
Suspended solids	mg/l	12	5.0	50.9	120.0	44.5	106.4	
Dissolved oxygen	mg/l	12	6.7	9.2	13.0	8.5	7.2	I
BOD (5)	mg/l	9	< 0.4	1.4	4.2	0.7		II
COD (Mn)	mg/l	12	1.9	4.3	7.5	4.1	5.6	II
COD (Cr)	mg/l	12	< 7.0	14.4	28.0	13.5	20.6	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.4	7.7	8.2	7.7	7.8	II
							7.5	II
Alkalinity - total	mmol/l	11	2.1	3.0	3.9	3.0	3.3	
Ammonium (NH4-N)	mg/l	12	0.050	0.123	0.530	0.070	0.201	II
Nitrite (NO2-N)	mg/l	12	0.009	0.018	0.027	0.018	0.021	II
Nitrate (NO3-N)	mg/l	12	0.590	1.186	2.060	1.030	1.859	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	8	0.23	0.27	0.34	0.25		
Orthophosphate (PO4-P)	mg/l	12	0.016	0.052	0.078	0.055	0.078	II
Total phosphorus	mg/l	12	0.110	0.157	0.240	0.150	0.199	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	8	2.7	15.0	50.0	8.3		II
Conductivity	µS/cm	12	334	479	650	466	590	
Calcium (Ca++)	mg/l	11	40.0	55.8	73.0	55.0	65.0	
Sulphate (SO4--)	mg/l	11	48.0	60.2	79.0	60.0	73.0	
Magnesium (Mg++)	mg/l	11	8.4	11.7	14.8	12.1	14.2	
Potassium (K+)	mg/l	11	3.0	4.0	4.7	4.1	4.4	
Sodium (Na+)	mg/l	11	15.0	33.6	53.0	30.0	47.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	19.0	50.1	82.0	44.0	75.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	< 20.00	< 20.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	< 0.70	6.88	11.00	7.10	9.47	III
Chromium (Cr), total dissolved	µg/l	12	< 3.00	4.00	9.20	3.00	5.93	**
Lead (Pb), dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.71	3.80	1.20	2.95	III
Arsenic (As), dissolved	µg/l	12	< 2.00	2.50	4.00	2.00	3.90	**
Aluminium (Al), dissolved	µg/l	12	< 10.00	23.19	44.60	22.10	35.31	
Zinc (Zn)	µg/l	10	< 20.00	41.03	70.00	41.85		II
Copper (Cu)	µg/l	10	6.40	30.65	66.60	28.65		IV
Chromium (Cr) - total	µg/l	10	3.80	8.70	18.10	8.55		II
Lead (Pb)	µg/l	10	< 3.00	6.15	13.00	5.00		IV
Cadmium (Cd)	µg/l	10	< 0.50	0.61	1.60	0.50		III
Mercury (Hg)	µg/l	11	< 0.100	1.109	7.000	0.300	2.100	V
Nickel (Ni)	µg/l	10	1.80	9.71	26.00	6.70		II
Arsenic (As)	µg/l	10	2.00	4.70	7.00	5.00		III
Aluminium (Al)	µg/l	10	399.00	1835.00	3860.00	1570.00		
Phenol index	mg/l	12	0.0020	0.0045	0.0090	0.0040	0.0070	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.040	< 0.040	< 0.040	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	0.020	0.024	0.040	0.020		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	6.000	86.667	450.000	43.500	187.400	
Faecal coliforms (44 C)	1000CFU/100m	11	4.000	22.818	130.000	11.000	25.000	
Faecal streptococci	1000CFU/100m	11	0.800	4.345	14.000	2.000	14.000	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: /Tisza	Catchment: 138498 km2	2006
Distance from the mouth 163	Altitude: 74 m	H08
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	151.0	1224.0	3900.0	700.0	2746.0	
Temperature	°C	10	0.9	14.1	24.9	17.2		
Suspended solids	mg/l	9	4.0	45.4	110.0	46.0		
Dissolved oxygen	mg/l	10	6.4	9.3	13.0	8.6		II
BOD (5)	mg/l	7	0.5	1.7	4.1	1.3		II
COD (Mn)	mg/l	9	2.0	4.3	7.3	3.8		II
COD (Cr)	mg/l	10	9.0	14.1	23.0	12.5		II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.4	7.7	8.2	7.7		II
Alkalinity - total	mmol/l	10	2.5	2.9	3.2	3.0		II
Ammonium (NH4-N)	mg/l	10	0.030	0.092	0.210	0.080		II
Nitrite (NO2-N)	mg/l	10	0.009	0.017	0.024	0.015		II
Nitrate (NO3-N)	mg/l	10	0.660	1.062	1.760	0.890		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	6	0.23	0.28	0.33	0.28		
Orthophosphate (PO4-P)	mg/l	11 <	0.010	0.047	0.078	0.052	0.078	II
Total phosphorus	mg/l	10	0.090	0.148	0.210	0.150		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	6	2.4	20.3	52.0	10.5		III
Conductivity	µS/cm	10	358	467	575	463		
Calcium (Ca++)	mg/l	10	47.0	53.8	63.0	53.0		
Sulphate (SO4--)	mg/l	10	42.0	55.6	69.0	55.5		
Magnesium (Mg++)	mg/l	10	8.7	11.5	14.6	11.9		
Potassium (K+)	mg/l	10	3.4	3.9	4.3	4.0		
Sodium (Na+)	mg/l	10	19.0	32.0	51.0	28.5		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	10	21.0	46.1	79.0	40.0		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	10 <	20.00 <	20.00 <	20.00	20.00		**
Copper (Cu), dissolved	µg/l	10 <	0.70	6.27	11.00	6.40		III
Chromium (Cr), total dissolved	µg/l	10 <	3.00	3.44	6.60	3.00		**
Lead (Pb), dissolved	µg/l	10 <	3.00 <	3.00 <	3.00	3.00		**
Cadmium (Cd), dissolved	µg/l	10 <	0.50 <	0.50 <	0.50	0.50		**
Mercury (Hg), dissolved	µg/l	10 <	0.100	0.140	0.500	0.100		III
Nickel (Ni), dissolved	µg/l	10 <	1.00	1.37	3.00	1.00		III
Arsenic (As), dissolved	µg/l	10 <	2.00	2.70	4.00	2.00		**
Aluminium (Al), dissolved	µg/l	10 <	10.00	21.07	47.00	18.35		
Zinc (Zn)	µg/l	9 <	20.00	27.12	49.60	20.00		II
Copper (Cu)	µg/l	9	3.10	25.99	55.50	23.70		IV
Chromium (Cr) - total	µg/l	9	1.00	5.83	11.10	6.80		II
Lead (Pb)	µg/l	9 <	3.00	6.28	19.00	4.00		IV
Cadmium (Cd)	µg/l	9 <	0.50	0.50	0.50	0.50		II
Mercury (Hg)	µg/l	9 <	0.100	2.000	6.000	0.600		V
Nickel (Ni)	µg/l	9	2.00	5.22	14.00	4.50		II
Arsenic (As)	µg/l	9 <	2.00	4.00	7.00	4.00		III
Aluminium (Al)	µg/l	9	93.60	1431.18	3900.00	710.00		
Phenol index	mg/l	10	0.0020	0.0050	0.0100	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10 <	0.040 <	0.040 :	0.040	0.040		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	0.020	0.030	0.050	0.030		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	45.000	421.000	2350.000	200.000		
Faecal coliforms (44 C)	1000CFU/100m	9	8.000	79.111	400.000	19.000		
Faecal streptococci	1000CFU/100m	9	0.750	14.417	75.000	9.000		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Tisza	Catchment: 138498 km2	2006
Distance from the mouth 163	Altitude: 0 m	H08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.1	12.9	25.1	14.3	22.8	
Suspended solids	mg/l	12	6.0	41.6	120.0	35.0	69.4	
Dissolved oxygen	mg/l	12	6.2	9.4	13.4	8.4	6.9	II
BOD (5)	mg/l	8	1.1	2.3	5.3	1.9		III
COD (Mn)	mg/l	12	1.9	4.3	7.0	4.0	6.6	II
COD (Cr)	mg/l	12	< 7.0	14.5	21.0	15.5	19.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	7.8	8.2	7.7	8.2	II
							7.5	II
Alkalinity - total	mmol/l	12	2.5	3.0	4.2	3.0	3.3	
Ammonium (NH4-N)	mg/l	12	0.040	0.159	0.600	0.095	0.274	II
Nitrite (NO2-N)	mg/l	12	0.012	0.019	0.024	0.020	0.024	II
Nitrate (NO3-N)	mg/l	12	0.700	1.124	1.920	0.950	1.886	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	8	0.24	0.27	0.37	0.25		
Orthophosphate (PO4-P)	mg/l	12	0.016	0.058	0.104	0.059	0.089	II
Total phosphorus	mg/l	12	0.110	0.174	0.240	0.165	0.229	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	8	2.4	16.3	48.0	7.1		II
Conductivity	µS/cm	12	332	465	630	471	564	
Calcium (Ca++)	mg/l	11	38.0	53.5	70.0	53.0	60.0	
Sulphate (SO4--)	mg/l	12	41.0	54.3	78.0	51.5	65.6	
Magnesium (Mg++)	mg/l	11	9.1	12.0	15.2	11.8	14.1	
Potassium (K+)	mg/l	11	3.1	3.9	5.3	3.8	4.5	
Sodium (Na+)	mg/l	11	18.0	31.3	52.0	27.0	43.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	19.0	43.4	76.0	40.5	68.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	22.04	44.50	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	2.30	6.49	10.80	6.30	9.72	III
Chromium (Cr), total dissolved	µg/l	12	< 3.00	3.28	5.90	3.00	3.36	**
Lead (Pb), dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	0.175	0.500	0.100	0.470	III
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.67	3.30	1.20	2.95	III
Arsenic (As), dissolved	µg/l	12	< 2.00	2.75	5.00	2.00	4.00	**
Aluminium (Al), dissolved	µg/l	12	< 10.00	22.36	45.00	19.85	40.55	
Zinc (Zn)	µg/l	10	< 20.00	46.30	152.00	29.70		III
Copper (Cu)	µg/l	10	13.10	26.70	52.00	24.85		IV
Chromium (Cr) - total	µg/l	10	2.30	6.72	13.10	7.50		II
Lead (Pb)	µg/l	10	< 3.00	6.40	16.00	3.50		IV
Cadmium (Cd)	µg/l	10	< 0.50	0.69	2.00	0.50		III
Mercury (Hg)	µg/l	11	< 0.100	2.200	6.900	1.900	4.500	V
Nickel (Ni)	µg/l	10	< 1.00	6.11	15.00	4.75		II
Arsenic (As)	µg/l	10	< 2.00	4.30	7.00	4.50		III
Aluminium (Al)	µg/l	10	52.90	1232.89	3240.00	1175.00		
Phenol index	mg/l	12	0.0020	0.0060	0.0130	0.0050	0.0109	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.040	< 0.040	0.040	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	0.020	0.029	0.050	0.030		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	7.000	747.909	1400.000	900.000	1350.000	
Faecal coliforms (44 C)	1000CFU/100m	10	0.400	137.040	300.000	140.000		
Faecal streptococci	1000CFU/100m	10	0.500	52.950	325.000	31.000		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Tisza/Sajo  
 Distance from the mouth 124  
 Location: Middle

Catchment: 3224 km2  
 Altitude: 128 m  
 2006  
 H09

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3.9	25.6	174.0	14.6	56.2	
Temperature	°C	12	1.3	9.4	18.1	9.2	15.5	
Suspended solids	mg/l	12	5.0	48.4	148.0	26.5	113.9	
Dissolved oxygen	mg/l	12	8.6	10.7	13.1	10.8	8.7	I
BOD (5)	mg/l	12	1.9	4.4	7.5	3.8	6.9	III
COD (Mn)	mg/l	12	2.2	4.6	8.0	4.2	6.8	II
COD (Cr)	mg/l	12	10.0	15.6	32.0	14.0	22.7	II
TOC	mg/l							
DOC	mg/l	12	2.2	3.3	5.4	3.2	4.0	
pH	-	12	7.7	7.9	8.1	7.9	8.1	II
							7.8	II
Alkalinity - total	mmol/l	12	2.0	3.1	3.7	3.2	3.6	
Ammonium (NH4-N)	mg/l	12	0.090	0.166	0.260	0.165	0.246	II
Nitrite (NO2-N)	mg/l	12	0.012	0.029	0.055	0.026	0.043	II
Nitrate (NO3-N)	mg/l	12	1.360	1.963	2.710	2.030	2.521	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12	0.16	0.84	1.98	0.72	1.91	
Orthophosphate (PO4-P)	mg/l	12	0.036	0.062	0.114	0.054	0.088	II
Total phosphorus	mg/l	12	0.070	0.152	0.290	0.170	0.189	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	< 2.0	3.4	10.0	2.1	5.8	I
Conductivity	µS/cm	12	256	397	488	403	485	
Calcium (Ca++)	mg/l	12	37.9	60.3	77.9	62.8	75.4	
Sulphate (SO4--)	mg/l	12	44.0	69.5	92.0	71.5	90.0	
Magnesium (Mg++)	mg/l	12	8.6	14.3	21.7	13.7	19.0	
Potassium (K+)	mg/l	12	2.7	4.3	5.4	4.4	5.4	
Sodium (Na+)	mg/l	12	5.3	9.4	13.4	9.2	12.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	8.0	13.5	20.0	13.5	18.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	31.67	47.00	30.50	46.10	**
Copper (Cu), dissolved	µg/l	12	1.90	2.86	4.10	2.70	4.03	III
Chromium (Cr), total dissolved	µg/l	12	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Lead (Pb), dissolved	µg/l	12	< 3.00	3.13	4.40	3.00	3.18	**
Cadmium (Cd), dissolved	µg/l	12	< 0.50	< 0.50	< 0.50	0.50	0.50	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	0.101	0.110	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	12	< 1.00	1.44	2.90	1.00	2.37	III
Arsenic (As), dissolved	µg/l	7	< 2.00	2.17	2.70	2.00		**
Aluminium (Al), dissolved	µg/l	12	< 10.00	23.92	58.00	15.50	49.50	
Zinc (Zn)	µg/l	8	43.00	59.75	96.00	54.50		II
Copper (Cu)	µg/l	8	3.00	4.83	6.30	5.15		II
Chromium (Cr) - total	µg/l	8	< 1.00	1.91	4.40	1.20		II
Lead (Pb)	µg/l	8	< 3.00	4.25	6.60	4.00		III
Cadmium (Cd)	µg/l	8	< 0.50	< 0.50	< 0.50	0.50		II
Mercury (Hg)	µg/l	8	< 0.100	0.104	0.130	0.100		III
Nickel (Ni)	µg/l	8	< 1.00	2.29	4.60	2.10		II
Arsenic (As)	µg/l	4	< 2.00	2.60	3.50	2.45		II
Aluminium (Al)	µg/l	8	61.00	389.38	1180.00	231.00		
Phenol index	mg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.040	0.040	0.041	0.040	0.040	
AOX	µg/l	4	< 10.00	11.58	14.40	10.95		II
Petroleum hydrocarbons	mg/l	12	< 0.020	0.025	0.053	0.021	0.033	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	4	0.1000	0.1000	0.1000	0.1000		II
pp-DDT	µg/l							
Atrazine	µg/l	4	< 0.100	< 0.100	: 0.100	0.100		II
Chloroform	µg/l	3	< 1.00	< 1.00	< 1.00			**
Carbon tetrachloride	µg/l	4	< 1.00	< 1.00	< 1.00	1.00		II
Trichloroethylene	µg/l	4	< 1.00	< 1.00	< 1.00	1.00		II
Tetrachloroethylene	µg/l	4	< 1.00	< 1.00	< 1.00	1.00		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	27.000	419.750	3800.000	55.000	354.000	
Faecal coliforms (44 C)	1000CFU/100m	5	2.000	14.600	36.000	10.000		
Faecal streptococci	1000CFU/100m	6	0.600	16.367	80.000	4.400		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Drava	Catchment: 15356 km2	2006
Distance from the mouth 300	Altitude: 108 m	SI01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	45.0	264.6	752.0	240.0	420.2	
Temperature	°C	24	0.5	10.9	23.5	10.1	19.2	
Suspended solids	mg/l	24	1.6	12.1	70.0	9.5	19.4	
Dissolved oxygen	mg/l	24	8.2	10.5	15.2	9.8	8.6	I
BOD (5)	mg/l	24	0.4	1.2	2.9	1.1	1.6	I
COD (Mn)	mg/l	10	0.5	1.7	2.4	1.8		I
COD (Cr)	mg/l	24	3.6	4.8	7.3	4.4	6.0	I
TOC	mg/l	24	1.0	1.5	3.0	1.4	2.0	
DOC	mg/l							
pH	-	24	7.5	7.8	8.4	7.8	8.1	II
							7.6	II
Alkalinity - total	mmol/l	24	1.8	2.4	3.1	2.4	2.8	
Ammonium (NH4-N)	mg/l	24	0.016	0.041	0.078	0.040	0.060	I
Nitrite (NO2-N)	mg/l	24	0.005	0.010	0.021	0.009	0.015	II
Nitrate (NO3-N)	mg/l	24	0.783	1.307	2.170	1.198	1.884	II
Total nitrogen	mg/l	23	0.80	1.42	2.20	1.35	1.80	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24 <	0.003	0.010	0.024	0.010	0.021	I
Total phosphorus	mg/l	24	0.013	0.037	0.082	0.034	0.059	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	201	268	349	266	321	
Calcium (Ca++)	mg/l	24	31.3	40.0	51.0	39.5	46.9	
Sulphate (SO4--)	mg/l	24	1.1	23.0	33.0	23.0	30.8	
Magnesium (Mg++)	mg/l	24	6.2	9.3	13.0	9.4	11.3	
Potassium (K+)	mg/l	24	1.2	1.7	2.6	1.6	2.1	
Sodium (Na+)	mg/l	24	3.7	5.9	10.0	5.4	8.3	
Manganese (Mn)	mg/l	24	0.0066	0.0283	0.0560	0.0195	0.0524	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	3.7	6.8	20.0	5.6	10.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24 <	6.00	7.48	10.73	8.00	9.62	**
Copper (Cu), dissolved	µg/l	24 <	0.20	0.87	1.90	0.75	1.44	II
Chromium (Cr), total dissolved	µg/l	24 <	0.20	0.94	2.60	0.80	1.83	II
Lead (Pb), dissolved	µg/l	24 <	0.20	0.70	1.10	0.60	0.80	II
Cadmium (Cd), dissolved	µg/l	24 <	0.03	0.07	0.10	0.07	0.10	II
Mercury (Hg), dissolved	µg/l	24 <	0.005	0.066	0.100	0.070	0.100	II
Nickel (Ni), dissolved	µg/l	24	0.70	1.05	1.74	1.04	1.47	III
Arsenic (As), dissolved	µg/l	23	0.95	1.29	1.66	1.24	1.60	III
Aluminium (Al), dissolved	µg/l	24 <	3.00	14.31	50.00	9.75	39.80	
Zinc (Zn)	µg/l	24 <	6.00	19.83	56.15	19.27	35.59	II
Copper (Cu)	µg/l	24 <	0.50	1.76	4.80	1.60	2.60	II
Chromium (Cr) - total	µg/l	24 <	0.50	2.57	4.00	2.44	4.00	II
Lead (Pb)	µg/l	24 <	0.60	3.48	10.02	2.69	6.82	III
Cadmium (Cd)	µg/l	24 <	0.03	0.09	0.20	0.10	0.10	II
Mercury (Hg)	µg/l	23 <	0.100 <	0.100	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	24 <	1.00	2.54	4.00	2.46	4.00	II
Arsenic (As)	µg/l	24 <	1.00	2.58	5.60	2.14	4.00	II
Aluminium (Al)	µg/l	24	35.90	593.26	1726.22	368.47	1373.73	
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l	24 <	0.006	0.015	0.070	0.010	0.016	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.006	0.009	0.005	0.009	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0040	0.0040	0.0040	0.0040	0.0040	II
Atrazine	µg/l	12 <	0.030 <	0.030	0.030	0.030	0.030	II
Chloroform	µg/l	12 <	0.30 <	0.30 <	0.30	0.30	0.30	II
Carbon tetrachloride	µg/l	12 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Trichloroethylene	µg/l	12 <	0.20 <	0.20 <	0.20	0.20	0.20	II
Tetrachloroethylene	µg/l	12 <	0.10 <	0.10 <	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	1	2.18	2.18	2.18			II
Macrozoobenthos no. of taxa	-	1	31	31	31			
Total coliforms (37 C)	1000CFU/100m	12	0.410	2.920	7.000	2.650	5.823	
Faecal coliforms (44 C)	1000CFU/100m	12	0.070	0.943	2.000	1.000	1.858	
Faecal streptococci	1000CFU/100m	12	0.000	0.173	1.200	0.012	0.309	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 10878 km2	2006
Distance from the mouth 729	Altitude: 192 m	SI02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	78.0	235.0	1375.0	174.0	451.0	
Temperature	°C	24	1.1	13.4	25.1	12.6	23.2	
Suspended solids	mg/l	24	1.6	8.7	70.0	3.9	19.4	
Dissolved oxygen	mg/l	24	5.7	10.0	12.3	10.5	8.5	I
BOD (5)	mg/l	24	0.7	1.3	2.4	1.1	2.1	I
COD (Mn)	mg/l	17	1.1	2.5	5.7	2.5	3.5	I
COD (Cr)	mg/l	24	4.0	7.5	13.5	6.9	12.0	II
TOC	mg/l	24	0.7	2.6	5.4	2.6	3.4	
DOC	mg/l							
pH	-	24	7.6	8.0	8.3	8.0	8.2	II
							7.7	II
Alkalinity - total	mmol/l	24	2.5	3.8	4.6	3.9	4.3	
Ammonium (NH4-N)	mg/l	24	0.005	0.041	0.133	0.023	0.106	I
Nitrite (NO2-N)	mg/l	24	0.009	0.020	0.034	0.019	0.030	II
Nitrate (NO3-N)	mg/l	24	1.111	1.789	2.689	1.760	2.160	II
Total nitrogen	mg/l	23	1.50	2.04	3.23	2.00	2.19	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.017	0.082	0.174	0.078	0.128	III
Total phosphorus	mg/l	24	0.045	0.117	0.279	0.103	0.194	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	304	373	433	370	421	
Calcium (Ca++)	mg/l	24	40.0	62.4	98.2	61.6	68.0	
Sulphate (SO4--)	mg/l	24	11.0	15.8	28.0	15.4	21.8	
Magnesium (Mg++)	mg/l	24	7.9	13.7	19.0	13.3	17.7	
Potassium (K+)	mg/l	24	1.1	1.6	3.1	1.4	2.3	
Sodium (Na+)	mg/l	24	4.3	7.7	16.0	7.2	9.8	
Manganese (Mn)	mg/l	24	0.0067	0.0188	0.0530	0.0140	0.0316	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	5.9	9.8	19.7	9.5	13.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	23	< 6.00	8.00	26.00	8.00	8.00	**
Copper (Cu), dissolved	µg/l	22	< 0.20	1.21	3.90	0.98	1.60	II
Chromium (Cr), total dissolved	µg/l	19	< 0.20	1.16	2.80	0.80	2.60	III
Lead (Pb), dissolved	µg/l	24	< 0.20	0.68	1.80	0.60	0.80	II
Cadmium (Cd), dissolved	µg/l	24	< 0.03	< 0.07	< 0.10	0.10	0.10	II
Mercury (Hg), dissolved	µg/l	24	< 0.005	0.063	0.100	0.070	0.100	II
Nickel (Ni), dissolved	µg/l	24	< 0.40	1.62	3.00	1.73	2.44	III
Arsenic (As), dissolved	µg/l	23	0.34	0.75	1.00	1.00	1.00	II
Aluminium (Al), dissolved	µg/l	24	< 3.00	14.38	71.63	8.86	29.12	
Zinc (Zn)	µg/l	24	< 6.00	14.23	40.00	10.15	29.92	II
Copper (Cu)	µg/l	24	< 0.50	1.66	4.60	1.48	2.47	II
Chromium (Cr) - total	µg/l	24	< 0.50	2.74	13.00	1.35	5.75	II
Lead (Pb)	µg/l	24	< 0.60	0.98	1.78	1.00	1.60	II
Cadmium (Cd)	µg/l	24	< 0.03	0.07	0.10	0.10	0.10	II
Mercury (Hg)	µg/l	23	< 0.100	< 0.100	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	24	< 1.00	2.97	5.00	3.06	4.00	II
Arsenic (As)	µg/l	24	0.32	1.14	4.00	0.95	3.10	II
Aluminium (Al)	µg/l	24	22.00	364.45	2000.00	234.08	589.94	
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l	24	< 0.008	0.013	0.022	0.010	0.021	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.005	0.006	0.008	0.005	0.008	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0040	0.0040	0.0040	0.0040	0.0040	II
Atrazine	µg/l	12	< 0.030	< 0.030	0.030	0.030	0.030	II
Chloroform	µg/l							
Carbon tetrachloride	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Trichloroethylene	µg/l	12	< 0.20	< 0.20	< 0.20	0.20	0.20	II
Tetrachloroethylene	µg/l	12	< 0.10	< 0.10	< 0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.08	2.09	2.09			II
Macrozoobenthos no. of taxa	-	2	57	63	68			
Total coliforms (37 C)	1000CFU/100m	12	1.050	4.900	23.000	3.425	6.305	
Faecal coliforms (44 C)	1000CFU/100m	12	0.100	1.476	4.350	1.150	2.847	
Faecal streptococci	1000CFU/100m	12	0.000	0.128	0.650	0.020	0.393	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 210250 km2	2006
Distance from the mouth 1429	Altitude: 89 m	HR01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	1407.0	2917.8	6673.0	2194.0	5499.1	
Temperature	°C	12	0.3	11.6	26.1	11.0	21.6	
Suspended solids	mg/l	12	5.0	26.6	42.0	31.5	36.8	
Dissolved oxygen	mg/l	12	5.7	9.9	12.5	10.6	6.9	II
BOD (5)	mg/l	12	1.2	3.0	5.6	3.0	4.2	II
COD (Mn)	mg/l	12	2.3	3.9	5.6	4.0	5.4	II
COD (Cr)	mg/l	12	9.1	13.0	17.0	13.0	15.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.7	8.2	8.7	8.3	8.6	III
							7.8	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12	0.020	0.092	0.220	0.070	0.205	II
Nitrite (NO2-N)	mg/l	12	0.008	0.024	0.050	0.019	0.043	II
Nitrate (NO3-N)	mg/l	12	0.450	1.583	4.070	1.585	3.025	III
Total nitrogen	mg/l	12	0.73	1.99	4.54	1.96	3.55	II
Organic nitrogen	mg/l	12	0.12	0.28	0.45	0.29	0.40	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	12	0.085	0.136	0.307	0.118	0.160	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	359	460	678	407	625	
Calcium (Ca++)	mg/l	12	41.0	59.8	86.0	56.5	77.7	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	8.8	14.2	25.0	14.5	17.9	
Potassium (K+)	mg/l	12	2.2	3.0	3.9	3.1	3.8	
Sodium (Na+)	mg/l	12	9.0	20.0	55.0	14.5	32.6	
Manganese (Mn)	mg/l	12	0.0210	0.0397	0.0850	0.0370	0.0556	
Iron (Fe)	mg/l	12	0.118	0.455	1.348	0.465	0.732	
Chloride (Cl-)	mg/l	12	12.0	22.8	51.0	18.5	35.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	8	< 0.00	3.00	15.00	0.00		III
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	8	< 0.00	< 0.00	< 0.00	0.00		II
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	8	< 0.00	< 0.00	< 0.00	0.00		II
Arsenic (As), dissolved	µg/l	8	< 0.00	1.05	2.70	0.95		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 0.80	7.77	20.00	8.50	13.70	II
Copper (Cu)	µg/l	12	< 1.00	4.50	16.00	2.70	8.87	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	12	< 0.05	9.60	107.00	0.58	2.58	II
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	12	< 0.010	0.234	1.070	0.100	0.586	V
Nickel (Ni)	µg/l	12	< 0.10	3.55	41.44	0.10	0.10	II
Arsenic (As)	µg/l	12	0.70	1.72	3.00	1.35	2.98	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0021	0.0050	0.0015	0.0039	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.050	0.057	0.081	0.050	0.070	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	< 0.002	0.013	0.053	0.009	0.032	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.3776	4.5200	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0010	0.1101	1.3100	0.0010	0.0010	I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.500	2.008	7.000	1.650	3.200	
Faecal coliforms (44 C)	1000CFU/100m	12	0.240	1.575	4.900	1.310	3.200	
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 243147 km2	2006
Distance from the mouth 1337	Altitude: 135 m	HR02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	0.0	12.7	26.9	13.6	22.8	
Suspended solids	mg/l	26	15.0	38.2	99.0	33.0	54.0	
Dissolved oxygen	mg/l	26	5.9	10.0	13.8	10.4	6.6	II
BOD (5)	mg/l	26	1.1	3.1	6.2	3.1	4.5	II
COD (Mn)	mg/l	26	3.1	4.2	6.6	3.9	5.2	II
COD (Cr)	mg/l	26	5.9	12.4	26.4	11.1	18.3	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.6	8.2	8.6	8.2	8.4	II
							8.1	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26 <	0.010	0.070	0.180	0.070	0.115	I
Nitrite (NO2-N)	mg/l	26	0.010	0.017	0.033	0.017	0.020	II
Nitrate (NO3-N)	mg/l	26	0.452	1.982	2.712	2.147	2.712	II
Total nitrogen	mg/l	26	1.11	2.43	3.28	2.50	3.10	II
Organic nitrogen	mg/l	26	0.04	0.36	0.94	0.27	0.83	
Orthophosphate (PO4-P)	mg/l	26	0.020	0.109	1.160	0.065	0.128	III
Total phosphorus	mg/l	26 <	0.030	0.214	2.080	0.135	0.225	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	330	444	648	417	615	
Calcium (Ca++)	mg/l	12	40.2	53.5	82.1	46.4	77.7	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	9.1	12.5	21.1	10.8	17.8	
Potassium (K+)	mg/l	12	2.1	2.7	3.4	2.5	3.3	
Sodium (Na+)	mg/l	12	5.5	17.9	42.0	14.7	25.3	
Manganese (Mn)	mg/l	12	0.0110	0.0214	0.0367	0.0212	0.0339	
Iron (Fe)	mg/l	12	0.034	0.171	0.442	0.141	0.319	
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12 <	0.80	5.90	12.20	7.20	9.38	II
Copper (Cu)	µg/l	12 <	1.00	5.44	46.50	1.27	3.48	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	12 <	0.05	0.15	1.23	0.05	0.05	II
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	12 <	0.010	0.055	0.150	0.055	0.090	II
Nickel (Ni)	µg/l	12 <	0.10	0.60	6.10	0.10	0.10	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0016	0.0040	0.0010	0.0029	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.050 <	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.002	0.008	0.028	0.004	0.018	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
pp-DDT	µg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.049	3.759	24.000	2.300	3.390	
Faecal coliforms (44 C)	1000CFU/100m	12	0.015	3.507	24.000	2.250	3.300	
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Drava	Catchment: 15356 km2	2006
Distance from the mouth 300	Altitude: 192 m	HR03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.2	11.4	23.8	12.0	20.8	
Suspended solids	mg/l	12	1.9	12.8	51.6	9.8	19.3	
Dissolved oxygen	mg/l	12	8.0	10.8	14.6	10.7	8.1	I
BOD (5)	mg/l	12	0.4	1.3	2.9	1.1	2.0	I
COD (Mn)	mg/l							
COD (Cr)	mg/l	12	3.5	6.9	26.8	5.0	7.6	I
TOC	mg/l							
DOC	mg/l	11	0.6	1.3	3.7	0.9	1.4	
pH	-	12	7.4	8.1	8.4	8.1	8.2	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12	0.010	0.045	0.090	0.045	0.068	I
Nitrite (NO2-N)	mg/l	12	0.007	0.012	0.029	0.010	0.022	II
Nitrate (NO3-N)	mg/l	12	0.400	1.200	1.700	1.250	1.500	II
Total nitrogen	mg/l	12	0.94	1.52	2.10	1.56	2.00	II
Organic nitrogen	mg/l	12	0.07	0.26	0.50	0.24	0.50	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	12 <	0.030	0.090	0.310	0.050	0.195	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	210	281	363	275	349	
Calcium (Ca++)	mg/l	12	27.6	41.2	54.1	41.9	48.1	
Sulphate (SO4--)	mg/l	12	11.6	20.0	31.4	18.3	28.0	
Magnesium (Mg++)	mg/l	12	8.9	11.3	14.7	11.4	13.5	
Potassium (K+)	mg/l	12	1.2	1.8	2.2	1.8	2.2	
Sodium (Na+)	mg/l	12	3.1	7.2	15.8	6.9	9.5	
Manganese (Mn)	mg/l	12	0.0098	0.0198	0.0389	0.0181	0.0260	
Iron (Fe)	mg/l	12	0.099	0.506	1.050	0.457	0.982	
Chloride (Cl-)	mg/l	12	4.4	8.5	13.4	7.4	12.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	2.02	7.23	17.40	6.38	10.26	III
Copper (Cu), dissolved	µg/l	12	0.66	1.12	2.69	0.94	1.35	II
Chromium (Cr), total dissolved	µg/l	12	0.25	0.66	1.05	0.64	1.04	II
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	8.75	15.48	38.40	13.63	20.31	II
Copper (Cu)	µg/l	12	1.03	1.68	3.39	1.45	2.60	II
Chromium (Cr) - total	µg/l	12	0.47	1.50	4.87	1.38	2.12	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	12	0.010	0.024	0.058	0.020	0.039	II
Nickel (Ni)	µg/l	12 <	0.40	2.04	12.55	0.78	3.68	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0024	0.0070	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.013	0.030	0.010	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.002	0.005	0.015	0.003	0.007	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	6	0.0005	0.0005	0.0005	0.0005		I
pp-DDT	µg/l	6	0.0001	0.0001	0.0001	0.0001		I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	1.86	1.96	2.05			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: /Drava	Catchment: 31038 km2	2006
Distance from the mouth 227	Altitude: 92 m	HR04
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	0.2	12.0	24.4	12.4	20.1	
Suspended solids	mg/l	26	1.0	28.3	162.0	20.5	72.0	
Dissolved oxygen	mg/l	26	7.7	10.1	13.8	9.8	8.3	I
BOD (5)	mg/l	26	0.9	1.9	5.1	1.6	2.9	I
COD (Mn)	mg/l							
COD (Cr)	mg/l	26	5.3	9.0	19.1	8.2	12.8	II
TOC	mg/l							
DOC	mg/l	12	1.5	1.9	2.7	1.9	2.3	
pH	-	26	7.6	8.1	8.3	8.1	8.3	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.010	0.047	0.150	0.040	0.100	I
Nitrite (NO2-N)	mg/l	26	0.007	0.018	0.033	0.018	0.024	II
Nitrate (NO3-N)	mg/l	26	0.700	1.519	3.400	1.400	2.250	II
Total nitrogen	mg/l	27	1.07	10.14	226.00	1.66	2.53	II
Organic nitrogen	mg/l	26	0.02	0.25	0.74	0.21	0.48	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	27	0.030	18.236	490.000	0.070	0.208	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	227	322	460	321	407	
Calcium (Ca++)	mg/l	12	33.6	45.5	58.8	46.5	52.1	
Sulphate (SO4--)	mg/l	12	16.0	25.4	43.6	25.1	30.6	
Magnesium (Mg++)	mg/l	12	8.6	11.5	16.2	11.4	14.7	
Potassium (K+)	mg/l	12	1.5	2.3	2.9	2.3	2.6	
Sodium (Na+)	mg/l	12	4.9	9.4	14.9	9.0	12.8	
Manganese (Mn)	mg/l	12	0.0120	0.0307	0.0568	0.0290	0.0454	
Iron (Fe)	mg/l	12	0.129	0.744	2.763	0.383	2.103	
Chloride (Cl-)	mg/l	12	7.0	12.1	22.8	10.6	15.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	9	1.48	4.27	9.87	3.28		III
Copper (Cu), dissolved	µg/l	9	0.75	1.53	3.24	1.11		III
Chromium (Cr), total dissolved	µg/l	9	0.21	0.75	2.24	0.51		III
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	5.17	12.71	49.86	9.08	17.14	II
Copper (Cu)	µg/l	12	0.85	2.21	4.35	1.84	3.73	II
Chromium (Cr) - total	µg/l	12	0.22	2.76	12.99	1.49	5.95	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	13 <	0.010	0.026	0.069	0.024	0.048	II
Nickel (Ni)	µg/l	14 <	0.40	3.75	24.43	1.21	8.92	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0029	0.0110	0.0020	0.0030	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.021	0.050	0.015	0.048	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	14 <	0.002	1.471	17.660	0.004	2.019	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	14	0.0005	0.0005	0.0009	0.0005	0.0005	I
pp-DDT	µg/l	14	0.0001	0.0029	0.0360	0.0001	0.0028	II
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 10834 km2	2006
Distance from the mouth 729	Altitude: 135 m	HR06
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	25	3.8	13.2	23.4	12.8	21.5	
Suspended solids	mg/l	25	1.0	5.0	18.0	3.2	10.8	
Dissolved oxygen	mg/l	25	5.4	9.9	12.5	10.1	7.3	I
BOD (5)	mg/l	25	0.8	1.7	3.4	1.6	2.9	I
COD (Mn)	mg/l							
COD (Cr)	mg/l	25	3.1	7.9	14.9	7.3	12.1	II
TOC	mg/l							
DOC	mg/l	12	1.2	1.7	2.5	1.5	2.4	
pH	-	25	7.7	8.1	8.4	8.1	8.3	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	25 <	0.010	0.037	0.090	0.030	0.070	I
Nitrite (NO2-N)	mg/l	25	0.009	0.019	0.033	0.018	0.029	II
Nitrate (NO3-N)	mg/l	25	0.700	1.460	2.200	1.500	1.800	II
Total nitrogen	mg/l	25	1.40	1.88	2.86	1.83	2.33	II
Organic nitrogen	mg/l	25	0.05	0.37	0.88	0.30	0.70	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	25	0.060	0.116	0.240	0.110	0.172	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	25	332	394	471	385	451	
Calcium (Ca++)	mg/l	12	51.4	60.8	68.3	60.5	67.7	
Sulphate (SO4--)	mg/l	12	8.3	11.7	20.6	9.8	18.2	
Magnesium (Mg++)	mg/l	12	11.2	14.6	18.7	14.3	17.7	
Potassium (K+)	mg/l	12	0.8	1.3	1.9	1.3	1.8	
Sodium (Na+)	mg/l	12	3.4	6.6	10.2	6.1	9.7	
Manganese (Mn)	mg/l	12	0.0056	0.0118	0.0250	0.0100	0.0209	
Iron (Fe)	mg/l	12	0.040	0.288	1.322	0.185	0.426	
Chloride (Cl-)	mg/l	12	6.6	10.0	14.9	9.3	14.3	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.00	6.42	15.10	5.84	11.36	III
Copper (Cu), dissolved	µg/l	12 <	0.00	1.30	2.80	1.06	2.65	III
Chromium (Cr), total dissolved	µg/l	12 <	0.00	0.59	0.99	0.65	0.77	II
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	2.26	10.65	32.41	8.68	17.57	II
Copper (Cu)	µg/l	12	0.66	1.93	5.34	1.52	4.08	II
Chromium (Cr) - total	µg/l	12	0.57	1.15	1.96	0.99	1.83	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	12 <	0.010	0.022	0.050	0.017	0.040	II
Nickel (Ni)	µg/l	12 <	0.40	1.50	5.40	0.92	2.99	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0021	0.0030	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.026	0.050	0.020	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	25 <	0.002	0.043	0.769	0.006	0.049	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	6	0.0005	0.0005	0.0005	0.0005		I
pp-DDT	µg/l	6	0.0001	0.0001	0.0001	0.0001		I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	2.10	2.22	2.33			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 30953 km2	2006
Distance from the mouth 525	Altitude: 131 m	HR07
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	147.0	578.0	1728.0	350.0	1348.4	
Temperature	°C	25	1.9	14.3	26.6	14.7	23.4	
Suspended solids	mg/l	25	3.4	11.7	47.8	10.0	15.1	
Dissolved oxygen	mg/l	25	5.7	9.0	13.7	8.5	6.9	II
BOD (5)	mg/l	25	0.9	2.4	4.3	2.6	3.2	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	25	6.4	11.5	19.0	10.7	17.0	II
TOC	mg/l							
DOC	mg/l	12	1.5	2.5	3.1	2.6	3.0	
pH	-	25	7.6	8.0	8.2	8.0	8.2	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	25	0.030	0.206	1.190	0.130	0.374	III
Nitrite (NO2-N)	mg/l	25	0.010	0.032	0.095	0.029	0.051	II
Nitrate (NO3-N)	mg/l	24	0.500	1.213	1.900	1.250	1.470	II
Total nitrogen	mg/l	25	0.66	1.75	3.83	1.70	2.34	II
Organic nitrogen	mg/l	25	0.03	0.35	0.84	0.27	0.66	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	25	0.080	0.160	0.320	0.150	0.226	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	25	316	400	487	397	453	
Calcium (Ca++)	mg/l	12	51.2	62.0	75.1	61.8	71.0	
Sulphate (SO4--)	mg/l	12	5.5	11.6	20.6	10.3	17.1	
Magnesium (Mg++)	mg/l	12	11.0	14.3	19.4	13.4	18.6	
Potassium (K+)	mg/l	12	1.3	1.7	2.8	1.6	2.0	
Sodium (Na+)	mg/l	12	3.0	6.9	10.5	6.6	10.3	
Manganese (Mn)	mg/l	12	0.0077	0.0269	0.0534	0.0227	0.0395	
Iron (Fe)	mg/l	12	0.144	0.519	1.580	0.437	0.725	
Chloride (Cl-)	mg/l	12	7.3	10.3	14.0	10.5	13.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.01	5.69	17.10	3.49	13.44	III
Copper (Cu), dissolved	µg/l	12	0.96	1.44	3.58	1.23	1.66	II
Chromium (Cr), total dissolved	µg/l	12	0.31	0.69	2.00	0.54	1.05	II
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	3.73	10.17	22.90	9.04	16.51	II
Copper (Cu)	µg/l	12	1.20	1.93	3.74	1.64	3.17	II
Chromium (Cr) - total	µg/l	12	0.50	1.38	2.91	1.18	2.39	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	12 <	0.010	0.058	0.438	0.023	0.054	II
Nickel (Ni)	µg/l	12	0.51	1.76	5.68	1.10	4.16	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0024	0.0050	0.0020	0.0038	
Anionic active surfactants (PAL-A)	mg/l	12	0.020	0.038	0.090	0.030	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	25 <	0.002	0.008	0.064	0.006	0.013	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	6	0.0005	0.0005	0.0005	0.0005		I
pp-DDT	µg/l	6	0.0001	0.0001	0.0001	0.0001		I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	2.29	2.35	2.41			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 62890 km2	2006
Distance from the mouth 254	Altitude: 87 m	HR08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	320.0	1068.0	2855.0	680.0	2286.0	
Temperature	°C	25	2.0	14.2	27.9	14.4	23.0	
Suspended solids	mg/l	25	2.8	24.5	236.8	13.0	38.8	
Dissolved oxygen	mg/l	25	5.3	9.3	12.2	9.4	6.9	II
BOD (5)	mg/l	25	1.0	2.3	5.2	2.2	3.3	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	25	6.1	10.7	26.3	9.5	14.3	II
TOC	mg/l							
DOC	mg/l	12	1.5	2.1	3.1	2.0	2.7	
pH	-	25	7.5	8.1	8.4	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	25	0.010	0.068	0.340	0.050	0.136	I
Nitrite (NO2-N)	mg/l	25	0.011	0.020	0.054	0.017	0.032	II
Nitrate (NO3-N)	mg/l	24	0.600	1.092	1.600	1.100	1.440	II
Total nitrogen	mg/l	25	0.59	1.40	2.47	1.37	1.81	II
Organic nitrogen	mg/l	25	0.01	0.27	0.92	0.23	0.52	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	25	0.060	0.119	0.210	0.110	0.150	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	25	327	415	535	401	488	
Calcium (Ca++)	mg/l	12	54.0	64.6	76.2	64.9	73.0	
Sulphate (SO4--)	mg/l	12	9.4	19.5	41.8	17.2	29.0	
Magnesium (Mg++)	mg/l	12	9.7	13.7	17.4	13.1	17.2	
Potassium (K+)	mg/l	12	1.1	1.6	2.3	1.5	2.2	
Sodium (Na+)	mg/l	12	4.2	10.5	21.0	8.4	16.6	
Manganese (Mn)	mg/l	12	0.0081	0.0446	0.1091	0.0456	0.0639	
Iron (Fe)	mg/l	12	0.205	0.781	3.153	0.418	1.455	
Chloride (Cl-)	mg/l	12	8.2	18.9	34.4	15.7	33.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.00	4.88	14.60	3.61	8.93	III
Copper (Cu), dissolved	µg/l	12	0.78	1.70	3.30	1.47	3.15	III
Chromium (Cr), total dissolved	µg/l	12	0.19	0.86	2.18	0.70	1.64	II
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	3.93	10.93	30.10	6.78	21.50	II
Copper (Cu)	µg/l	12	1.29	3.36	9.20	2.05	8.04	II
Chromium (Cr) - total	µg/l	12	0.72	5.42	36.50	1.84	7.59	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	12	0.011	0.063	0.230	0.033	0.181	III
Nickel (Ni)	µg/l	12	1.20	7.35	58.20	2.34	5.60	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0031	0.0100	0.0020	0.0057	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.043	0.230	0.020	0.068	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	25 <	0.002	0.005	0.022	0.002	0.014	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	6	0.0005	0.0005	0.0005	0.0005		I
pp-DDT	µg/l	6	0.0001	0.0001	0.0001	0.0001		I
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 38953 km2	2006
Distance from the mouth 500	Altitude: 94 m	BIH01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	8	9.9	18.5	27.8	17.9		
Suspended solids	mg/l	8	3.0	9.3	21.2	8.0		
Dissolved oxygen	mg/l	8	4.4	7.2	9.8	7.5		IV
BOD (5)	mg/l	8	1.1	2.3	5.1	1.9		III
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	8	6.5	7.0	7.4	7.1		II
								III
Alkalinity - total	mmol/l	8	3.6	3.6	3.6	3.6		
Ammonium (NH4-N)	mg/l	8	0.020	0.206	0.460	0.185		III
Nitrite (NO2-N)	mg/l	8	0.019	0.033	0.050	0.032		II
Nitrate (NO3-N)	mg/l	8	0.280	1.028	1.490	1.165		II
Total nitrogen	mg/l	8	1.20	1.79	2.50	1.85		II
Organic nitrogen	mg/l	8	0.04	0.53	1.27	0.47		
Orthophosphate (PO4-P)	mg/l	8	0.034	0.082	0.133	0.083		III
Total phosphorus	mg/l	8	0.070	0.154	0.404	0.119		IV
Total phosphorus, dissolved	mg/l	3	0.058	0.095	0.116			
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	319	420	479	447		
Calcium (Ca++)	mg/l	8	42.4	62.2	71.4	66.1		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	12.8	20.9	30.8	18.5		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.9448	5.1600	0.0980		
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	8 <	0.100 <	0.100 :	0.100	0.100		II
Nickel (Ni)	µg/l	8 <	0.00	0.28	1.96	0.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava/Una  
 Distance from the mouth 16  
 Location: Middle

Catchment: 9130 km2  
 Altitude: 100 m  
 2006  
 BIH02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	8	2.0	15.7	25.0	16.9		
Suspended solids	mg/l	8	2.0	7.5	10.3	8.4		
Dissolved oxygen	mg/l	8	8.7	9.8	12.5	9.1		I
BOD (5)	mg/l	8	< 1.0	1.7	3.4	1.4		II
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	8	6.9	7.3	7.9	7.4		II
Alkalinity - total	mmol/l	8	4.3	4.3	4.3	4.3		II
Ammonium (NH4-N)	mg/l	8	0.020	0.048	0.110	0.040		I
Nitrite (NO2-N)	mg/l	8	0.001	0.006	0.011	0.007		II
Nitrate (NO3-N)	mg/l	8	0.270	0.436	0.570	0.450		I
Total nitrogen	mg/l	8	0.89	1.24	1.63	1.21		II
Organic nitrogen	mg/l	8	0.50	0.75	1.14	0.67		
Orthophosphate (PO4-P)	mg/l	8	< 0.005	0.012	0.032	0.008		I
Total phosphorus	mg/l	8	0.028	0.081	0.312	0.049		III
Total phosphorus, dissolved	mg/l	3	0.034	0.051	0.062			
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	354	414	474	420		
Calcium (Ca++)	mg/l	8	48.0	63.6	80.8	63.9		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	13.4	19.6	27.8	17.9		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.9023	6.6800	0.0875		
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	8	< 0.100	< 0.100	: 0.100	0.100		II
Nickel (Ni)	µg/l	8	< 0.00	0.05	0.39	0.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava/Vrbas  
 Distance from the mouth 12  
 Location: Middle

Catchment: 6023 km2  
 Altitude: 99 m  
 2006  
 BIH03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	8	25.0	52.3	66.0	60.5		
Temperature	°C	8	8.0	15.8	21.0	17.7		
Suspended solids	mg/l	8	2.5	12.1	22.5	11.7		
Dissolved oxygen	mg/l	8	7.4	9.1	11.1	9.0		I
BOD (5)	mg/l	8	1.0	1.7	2.8	1.7		I
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	8	6.6	7.2	7.6	7.3		II
Alkalinity - total	mmol/l	8	3.8	3.8	3.8	3.8		II
Ammonium (NH4-N)	mg/l	8	0.010	0.106	0.310	0.090		III
Nitrite (NO2-N)	mg/l	8	0.010	0.022	0.044	0.017		II
Nitrate (NO3-N)	mg/l	8	0.280	0.503	0.660	0.525		I
Total nitrogen	mg/l	8	0.72	1.12	1.52	1.15		II
Organic nitrogen	mg/l	8	0.17	0.49	0.77	0.50		
Orthophosphate (PO4-P)	mg/l	8	0.019	0.041	0.111	0.035		III
Total phosphorus	mg/l	8	0.056	0.113	0.312	0.085		III
Total phosphorus, dissolved	mg/l	3	0.052	0.081	0.120			
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	364	414	461	420		
Calcium (Ca++)	mg/l	8	40.8	61.8	78.5	60.6		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	10.7	18.8	30.6	19.0		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	1.0943	8.0000	0.1200		
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	8 <	0.100 <	0.100 :	0.100	0.100		II
Nickel (Ni)	µg/l	8 <	0.00	0.22	1.44	0.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava/Bosna  
 Distance from the mouth 24  
 Location: Middle

Catchment: 10308 km2  
 Altitude: 86 m  
 2006  
 BIH04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	8	14.0	72.4	150.0	62.0		
Temperature	°C	8	8.0	17.5	29.7	17.5		
Suspended solids	mg/l	8	5.5	15.6	55.2	9.7		
Dissolved oxygen	mg/l	8	7.8	10.6	15.6	9.6		I
BOD (5)	mg/l	8	< 1.0	2.9	7.9	1.8		III
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.0	7.4	8.7	7.2		III
Alkalinity - total	mmol/l	8	3.4	3.4	3.4	3.4		II
Ammonium (NH4-N)	mg/l	8	0.030	0.195	0.440	0.175		III
Nitrite (NO2-N)	mg/l	8	0.023	0.045	0.086	0.039		III
Nitrate (NO3-N)	mg/l	8	0.130	1.119	1.840	1.130		II
Total nitrogen	mg/l	8	1.38	2.04	2.53	2.00		II
Organic nitrogen	mg/l	8	0.20	0.68	1.20	0.79		
Orthophosphate (PO4-P)	mg/l	8	< 0.005	0.065	0.113	0.071		III
Total phosphorus	mg/l	8	0.036	0.175	0.354	0.172		III
Total phosphorus, dissolved	mg/l	3	0.102	0.120	0.134			
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	539	664	844	596		
Calcium (Ca++)	mg/l	8	32.0	74.7	94.2	79.4		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	15.0	22.5	39.3	20.9		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.6036	4.3300	0.0330		
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l	8	< 0.100	< 0.100	: 0.100	0.100		II
Nickel (Ni)	µg/l	8	< 0.00	0.13	0.86	0.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 210250 km2	2006
Distance from the mouth 1427	Altitude: 80 m	RS01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	23	1220.0	2517.8	7120.0	1980.0	4180.0	
Temperature	°C	23	0.2	12.8	26.8	13.8	23.7	
Suspended solids	mg/l	23	< 1.0	22.2	61.0	17.0	50.0	
Dissolved oxygen	mg/l	23	8.0	11.1	13.9	11.6	9.0	I
BOD (5)	mg/l	23	1.3	2.6	4.6	2.2	4.1	II
COD (Mn)	mg/l	23	3.4	4.6	6.4	4.6	5.9	II
COD (Cr)	mg/l	5	< 3.5	10.8	40.0	3.5		III
TOC	mg/l	11	1.6	4.2	6.8	4.0	6.4	
DOC	mg/l							
pH	-	23	7.8	8.1	8.6	8.0	8.4	II
							7.9	II
Alkalinity - total	mmol/l	23	2.7	3.4	4.6	3.3	4.0	
Ammonium (NH4-N)	mg/l	23	0.070	0.191	0.390	0.160	0.308	III
Nitrite (NO2-N)	mg/l	23	0.009	0.020	0.042	0.016	0.034	II
Nitrate (NO3-N)	mg/l	23	0.860	1.900	3.100	1.560	2.988	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	< 0.005	0.040	0.091	0.042	0.077	II
Total phosphorus	mg/l	23	0.066	0.115	0.200	0.107	0.159	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	8	1.2	16.3	33.2	16.0		II
Conductivity	µS/cm	23	339	432	599	406	554	
Calcium (Ca++)	mg/l	23	44.5	60.5	80.3	58.3	71.5	
Sulphate (SO4--)	mg/l	23	35.0	46.9	63.0	46.0	57.6	
Magnesium (Mg++)	mg/l	23	11.2	15.7	21.9	15.4	19.5	
Potassium (K+)	mg/l	22	1.1	2.4	4.2	2.2	3.6	
Sodium (Na+)	mg/l	22	10.7	18.2	28.3	15.9	26.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	23	17.3	24.5	41.4	21.3	38.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	7	< 1.00	7.29	16.00	6.00		III
Copper (Cu), dissolved	µg/l	19	< 1.00	5.42	14.00	5.00	13.00	III
Chromium (Cr), total dissolved	µg/l	22	< 1.00	1.23	5.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	19	< 1.00	1.47	3.00	1.00	3.00	III
Cadmium (Cd), dissolved	µg/l	21	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	14	< 0.100	0.200	1.000	0.100	0.300	III
Nickel (Ni), dissolved	µg/l	19	< 1.00	4.89	34.00	2.00	11.20	III
Arsenic (As), dissolved	µg/l	21	< 1.00	1.29	3.00	1.00	2.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0013	0.0050	0.0010	0.0020	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	0.016	0.029	0.016	0.020	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	10	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	10	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 251253 km2	2006
Distance from the mouth 1367	Altitude: 75 m	RS02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	20	1420.0	3242.5	8600.0	2485.0	6013.0	
Temperature	°C	20	0.2	14.8	27.0	16.2	25.2	
Suspended solids	mg/l	20	2.0	28.8	68.0	25.0	54.3	
Dissolved oxygen	mg/l	20	8.0	10.6	13.3	10.6	9.0	I
BOD (5)	mg/l	20	1.2	2.7	4.4	2.7	3.9	II
COD (Mn)	mg/l	20	3.4	5.0	7.3	4.8	6.3	II
COD (Cr)	mg/l							
TOC	mg/l	7	1.2	3.2	5.4	3.3		
DOC	mg/l							
pH	-	20	7.7	8.1	8.6	8.1	8.4	II
							7.8	II
Alkalinity - total	mmol/l	20	2.6	3.3	4.7	3.2	3.8	
Ammonium (NH4-N)	mg/l	20	0.080	0.182	0.360	0.155	0.259	II
Nitrite (NO2-N)	mg/l	20	0.010	0.019	0.037	0.017	0.029	II
Nitrate (NO3-N)	mg/l	20	0.780	1.684	3.100	1.510	2.910	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	20 <	0.005	0.034	0.074	0.029	0.070	II
Total phosphorus	mg/l	20	0.074	0.112	0.197	0.099	0.166	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	20	322	411	602	385	514	
Calcium (Ca++)	mg/l	20	27.1	57.1	77.5	57.6	68.0	
Sulphate (SO4--)	mg/l	20	33.0	46.2	62.0	47.0	52.3	
Magnesium (Mg++)	mg/l	20	11.0	14.7	22.4	14.7	16.9	
Potassium (K+)	mg/l	20	0.9	2.3	4.1	2.3	3.1	
Sodium (Na+)	mg/l	20	10.0	16.8	29.0	14.8	25.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	20	17.0	21.6	41.0	19.8	26.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	6 <	1.00	3.33	6.00	3.00		III
Copper (Cu), dissolved	µg/l	16 <	1.00	7.94	29.00	4.00	20.50	III
Chromium (Cr), total dissolved	µg/l	16 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Lead (Pb), dissolved	µg/l	10 <	1.00	1.20	2.00	1.00		III
Cadmium (Cd), dissolved	µg/l	14 <	0.20 <	0.20 <	0.20 <	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	11 <	0.100	0.182	0.600	0.100	0.400	III
Nickel (Ni), dissolved	µg/l	15 <	1.00	5.73	41.00	3.00	8.80	III
Arsenic (As), dissolved	µg/l	14 <	1.00	1.21	2.00	1.00	2.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	20	0.0010	0.0012	0.0030	0.0010	0.0020	
Anionic active surfactants (PAL-A)	mg/l	20 <	0.010	0.016	0.035	0.014	0.026	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1 <	0.005 <	0.005 :	0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2 <	0.009 <	0.009 :	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 254085 km2	2006
Distance from the mouth 1258	Altitude: 71 m	RS03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	24	1440.0	3331.3	8600.0	2800.0	5786.0	
Temperature	°C	24	0.8	13.2	26.6	14.0	23.7	
Suspended solids	mg/l	24	2.0	25.3	61.0	26.0	46.1	
Dissolved oxygen	mg/l	24	6.5	9.9	14.3	9.6	8.0	I
BOD (5)	mg/l	23	1.3	2.9	4.9	3.0	4.0	II
COD (Mn)	mg/l	24	3.3	4.4	5.5	4.5	5.5	II
COD (Cr)	mg/l							
TOC	mg/l	6	0.9	3.1	5.9	2.8		
DOC	mg/l							
pH	-	24	7.8	8.0	8.4	7.9	8.1	II
							7.8	II
Alkalinity - total	mmol/l	24	2.6	3.4	4.6	3.3	4.0	
Ammonium (NH4-N)	mg/l	24	0.140	0.243	0.470	0.230	0.361	III
Nitrite (NO2-N)	mg/l	24	0.014	0.023	0.039	0.022	0.032	II
Nitrate (NO3-N)	mg/l	24	0.640	1.740	2.870	1.810	2.757	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.013	0.050	0.086	0.049	0.076	II
Total phosphorus	mg/l	24	0.072	0.121	0.217	0.118	0.178	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	21.3	24.9	28.4			II
Conductivity	µS/cm	24	314	423	617	394	546	
Calcium (Ca++)	mg/l	24	45.9	58.7	76.7	58.7	67.9	
Sulphate (SO4--)	mg/l	24	32.0	45.6	63.0	44.0	54.7	
Magnesium (Mg++)	mg/l	24	8.5	15.2	24.1	14.3	21.3	
Potassium (K+)	mg/l	24	1.3	2.6	11.4	2.2	3.3	
Sodium (Na+)	mg/l	24	10.0	19.8	39.9	17.5	28.1	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	14.6	22.0	35.9	19.9	34.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	9	< 1.00	10.22	45.00	7.00		III
Copper (Cu), dissolved	µg/l	22	< 1.00	9.27	29.00	2.00	25.60	III
Chromium (Cr), total dissolved	µg/l	22	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	19	< 1.00	1.32	3.00	1.00	2.20	III
Cadmium (Cd), dissolved	µg/l	21	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	14	< 0.100	0.150	0.400	0.100	0.270	III
Nickel (Ni), dissolved	µg/l	22	< 1.00	4.45	64.00	1.00	3.00	III
Arsenic (As), dissolved	µg/l	20	< 1.00	1.10	2.00	1.00	1.10	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0011	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	0.027	0.059	0.026	0.039	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	< 0.005	< 0.005	: 0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1	< 0.009	< 0.009	: 0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 412762 km2	2006
Distance from the mouth 1174	Altitude: 70 m	RS04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.7	13.1	26.8	12.4	22.6	
Suspended solids	mg/l	22	2.0	20.1	68.0	14.0	52.7	
Dissolved oxygen	mg/l	24	7.0	10.6	16.2	9.8	7.6	I
BOD (5)	mg/l	17	1.6	2.5	3.8	2.4	3.4	II
COD (Mn)	mg/l	24	2.9	3.6	4.5	3.7	4.1	I
COD (Cr)	mg/l	3	< 3.5	< 3.5	< 3.5			I
TOC	mg/l	15	0.9	3.0	5.9	3.1	3.9	
DOC	mg/l							
pH	-	24	7.5	7.9	8.5	7.9	8.1	II
							7.7	II
Alkalinity - total	mmol/l	24	2.7	3.4	4.1	3.5	3.8	
Ammonium (NH4-N)	mg/l	24	< 0.010	0.061	0.390	0.010	0.117	I
Nitrite (NO2-N)	mg/l	24	< 0.003	0.010	0.126	0.003	0.013	II
Nitrate (NO3-N)	mg/l	24	1.200	2.739	7.320	2.465	3.957	III
Total nitrogen	mg/l	21	1.11	3.37	7.63	3.36	5.26	III
Organic nitrogen	mg/l	19	< 0.10	0.70	1.93	0.64	1.37	
Orthophosphate (PO4-P)	mg/l	24	0.033	0.064	0.153	0.054	0.092	II
Total phosphorus	mg/l	24	0.047	0.116	0.332	0.102	0.146	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	1	11.1	11.1	11.1			I
Conductivity	µS/cm	24	327	421	536	407	518	
Calcium (Ca++)	mg/l	24	47.6	60.6	75.3	60.1	67.2	
Sulphate (SO4--)	mg/l	24	22.0	33.7	50.0	32.0	46.1	
Magnesium (Mg++)	mg/l	24	10.0	16.5	21.5	16.6	21.0	
Potassium (K+)	mg/l	22	1.5	2.5	5.0	2.3	3.3	
Sodium (Na+)	mg/l	22	11.1	17.0	21.9	16.3	21.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	11.9	21.5	37.4	20.2	31.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	7	< 1.00	9.29	18.00	13.00		III
Copper (Cu), dissolved	µg/l	22	< 1.00	7.23	20.00	5.00	15.90	III
Chromium (Cr), total dissolved	µg/l	24	< 1.00	1.21	4.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	23	< 1.00	1.22	4.00	1.00	1.80	III
Cadmium (Cd), dissolved	µg/l	24	< 0.20	0.23	1.00	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	23	< 0.100	0.113	0.200	0.100	0.180	III
Nickel (Ni), dissolved	µg/l	22	< 1.00	1.45	6.00	1.00	2.00	III
Arsenic (As), dissolved	µg/l	24	< 1.00	1.38	2.00	1.00	2.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	22	0.0010	0.0010	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	19	< 0.010	< 0.010	: 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	< 0.005	0.006	0.008	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	9	0.0020	0.0022	0.0040	0.0020		II
Atrazine	µg/l	9	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 525009 km2	2006
Distance from the mouth 1154	Altitude: 69 m	RS05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	10	1.2	15.0	27.6	18.8		
Suspended solids	mg/l	10	3.0	38.3	108.0	30.0		
Dissolved oxygen	mg/l	10	6.0	9.7	12.5	10.4		II
BOD (5)	mg/l	10	1.4	2.9	4.0	3.1		II
COD (Mn)	mg/l	10	3.9	5.5	8.4	5.2		II
COD (Cr)	mg/l							
TOC	mg/l	7	1.3	2.9	5.2	2.4		
DOC	mg/l							
pH	-	10	7.8	8.1	8.4	8.0		II
Alkalinity - total	mmol/l	10	2.9	3.4	4.4	3.3		II
Ammonium (NH4-N)	mg/l	10	0.100	0.274	0.690	0.190		IV
Nitrite (NO2-N)	mg/l	10	0.014	0.027	0.047	0.028		II
Nitrate (NO3-N)	mg/l	10	0.700	1.188	2.370	1.015		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	10	0.023	0.053	0.083	0.054		II
Total phosphorus	mg/l	10	0.115	0.146	0.179	0.146		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	10	379	457	647	422		
Calcium (Ca++)	mg/l	10	52.2	59.2	69.9	57.6		
Sulphate (SO4--)	mg/l	10	38.0	51.0	67.0	49.5		
Magnesium (Mg++)	mg/l	10	9.9	14.3	22.8	13.6		
Potassium (K+)	mg/l	10	2.3	3.1	4.4	2.9		
Sodium (Na+)	mg/l	10	18.3	26.8	55.5	23.5		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	10	20.8	31.8	54.4	27.5		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3 <	1.00	4.67	8.00			III
Copper (Cu), dissolved	µg/l	9 <	1.00	7.44	22.00	3.00		III
Chromium (Cr), total dissolved	µg/l	9 <	1.00	1.22	2.00	1.00		II
Lead (Pb), dissolved	µg/l	9 <	1.00	1.44	3.00	1.00		III
Cadmium (Cd), dissolved	µg/l	9 <	0.20	0.20	0.20	0.20		**
Mercury (Hg), dissolved	µg/l	6 <	0.100	0.233	0.700	0.100		III
Nickel (Ni), dissolved	µg/l	8 <	1.00	9.63	48.00	2.50		III
Arsenic (As), dissolved	µg/l	8 <	1.00	1.50	2.00	1.50		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0010	0.0017	0.0060	0.0010		
Anionic active surfactants (PAL-A)	mg/l	10 <	0.010	0.017	0.028	0.015		
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1 <	0.009	0.009	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 568648 km2	2006
Distance from the mouth 1076	Altitude: 0 m	RS06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	18	2.1	15.8	28.4	16.7	25.4	
Suspended solids	mg/l	18	2.0	20.5	73.0	17.0	37.0	
Dissolved oxygen	mg/l	18	7.1	9.6	14.4	9.3	7.6	I
BOD (5)	mg/l	18	< 0.2	2.3	4.9	2.4	3.4	II
COD (Mn)	mg/l	18	3.4	4.5	6.4	4.5	5.5	II
COD (Cr)	mg/l	3	< 3.5	< 3.5	< 3.5			I
TOC	mg/l	9	1.4	3.0	4.4	3.2		
DOC	mg/l							
pH	-	18	7.6	8.0	8.3	8.0	8.2	II
							7.8	II
Alkalinity - total	mmol/l	18	2.4	3.2	3.8	3.2	3.6	
Ammonium (NH4-N)	mg/l	18	0.070	0.174	0.430	0.145	0.271	II
Nitrite (NO2-N)	mg/l	18	0.011	0.022	0.034	0.021	0.031	II
Nitrate (NO3-N)	mg/l	18	0.420	1.239	2.100	1.165	1.944	II
Total nitrogen	mg/l	4	1.26	1.60	2.30	1.42		II
Organic nitrogen	mg/l	4	< 0.10	< 0.10	< 0.10	0.10		
Orthophosphate (PO4-P)	mg/l	18	< 0.005	0.051	0.081	0.054	0.072	II
Total phosphorus	mg/l	18	0.044	0.118	0.212	0.114	0.155	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	5	1.2	5.9	10.7	4.7		I
Conductivity	µS/cm	18	281	389	467	375	456	
Calcium (Ca++)	mg/l	18	44.7	56.1	65.5	55.3	63.7	
Sulphate (SO4--)	mg/l	18	30.0	43.4	56.0	45.0	51.0	
Magnesium (Mg++)	mg/l	18	6.0	13.2	21.1	13.1	16.8	
Potassium (K+)	mg/l	18	1.3	2.4	4.5	2.2	3.1	
Sodium (Na+)	mg/l	18	8.6	17.1	24.3	17.6	23.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	18	7.7	20.6	31.7	21.5	26.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	5	3.00	144.20	600.00	17.00		III
Copper (Cu), dissolved	µg/l	17	< 1.00	9.35	62.00	6.00	14.20	III
Chromium (Cr), total dissolved	µg/l	16	< 1.00	1.13	2.00	1.00	1.50	II
Lead (Pb), dissolved	µg/l	13	< 1.00	1.69	6.00	1.00	2.80	III
Cadmium (Cd), dissolved	µg/l	16	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	9	< 0.100	0.167	0.500	0.100		III
Nickel (Ni), dissolved	µg/l	16	< 1.00	1.94	7.00	1.00	3.50	III
Arsenic (As), dissolved	µg/l	16	< 1.00	1.69	5.00	1.00	4.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	18	0.0010	0.0014	0.0050	0.0010	0.0023	
Anionic active surfactants (PAL-A)	mg/l	18	< 0.010	0.020	0.053	0.017	0.030	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	11	< 0.009	< 0.009	: 0.009	0.009	0.009	I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 574307 km2	2006
Distance from the mouth 954	Altitude: 32 m	RS07
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	19	1.9	15.1	26.8	15.6	24.7	
Suspended solids	mg/l	19	< 1.0	9.2	44.0	5.0	22.0	
Dissolved oxygen	mg/l	19	< 6.4	9.3	14.0	8.8	7.0	I
BOD (5)	mg/l	14	< 0.2	2.5	4.0	2.3	3.6	II
COD (Mn)	mg/l	19	< 2.3	3.4	4.7	3.4	4.4	I
COD (Cr)	mg/l	2	< 3.5	< 3.5	< 3.5			I
TOC	mg/l	12	< 0.5	2.0	3.8	2.1	2.5	
DOC	mg/l							
pH	-	12	7.4	7.9	8.2	7.9	8.1	II
							7.6	II
Alkalinity - total	mmol/l	19	2.9	3.6	5.7	3.4	4.3	
Ammonium (NH4-N)	mg/l	19	< 0.010	0.047	0.140	0.010	0.120	I
Nitrite (NO2-N)	mg/l	19	< 0.003	0.012	0.055	0.003	0.027	II
Nitrate (NO3-N)	mg/l	19	0.100	1.322	2.340	1.370	1.980	II
Total nitrogen	mg/l	11	0.99	1.98	4.23	1.39	3.34	II
Organic nitrogen	mg/l	10	< 0.10	0.75	2.13	0.63		
Orthophosphate (PO4-P)	mg/l	19	0.016	0.050	0.078	0.054	0.072	II
Total phosphorus	mg/l	17	0.059	0.083	0.139	0.075	0.112	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	1	1.5	1.5	1.5			I
Conductivity	µS/cm	19	366	440	545	431	504	
Calcium (Ca++)	mg/l	19	49.2	59.2	70.8	60.9	64.6	
Sulphate (SO4--)	mg/l	19	13.0	32.5	43.8	34.0	39.2	
Magnesium (Mg++)	mg/l	19	7.9	16.6	45.1	14.9	19.4	
Potassium (K+)	mg/l	18	1.2	2.2	3.8	2.1	2.8	
Sodium (Na+)	mg/l	18	12.9	17.3	23.5	16.8	20.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	19	7.8	18.8	30.9	18.0	25.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	2	< 1.00	1.50	2.00			II
Copper (Cu), dissolved	µg/l	12	< 1.00	9.92	28.00	7.50	23.10	III
Chromium (Cr), total dissolved	µg/l	12	< 1.00	2.58	14.00	1.00	5.60	III
Lead (Pb), dissolved	µg/l	12	< 1.00	1.17	3.00	1.00	1.00	III
Cadmium (Cd), dissolved	µg/l	12	< 0.20	0.22	0.40	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	0.150	0.400	0.100	0.290	III
Nickel (Ni), dissolved	µg/l	12	< 1.00	3.92	15.00	2.00	6.90	III
Arsenic (As), dissolved	µg/l	12	< 1.00	2.50	8.00	2.00	4.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	18	< 0.010	0.010	0.014	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0020	0.0020	0.0020			II
Atrazine	µg/l	2	< 0.009	< 0.009	: 0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 577085 km2	2006
Distance from the mouth 851	Altitude: 0 m	RS08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	19	1.5	15.3	27.2	16.5	26.1	
Suspended solids	mg/l	16	< 1.0	13.9	71.0	3.0	31.0	
Dissolved oxygen	mg/l	19	5.8	9.3	13.4	9.3	6.6	II
BOD (5)	mg/l	16	< 0.2	2.3	5.3	2.2	3.5	II
COD (Mn)	mg/l	19	2.2	3.3	6.2	3.0	4.3	I
COD (Cr)	mg/l	2	< 3.5	< 3.5	< 3.5			I
TOC	mg/l	16	< 0.5	2.8	5.7	2.5	4.7	
DOC	mg/l							
pH	-	12	7.5	7.8	7.9	7.8	7.9	II
							7.6	II
Alkalinity - total	mmol/l	19	2.6	3.6	5.5	3.4	4.0	
Ammonium (NH4-N)	mg/l	18	< 0.010	0.080	0.256	0.075	0.169	I
Nitrite (NO2-N)	mg/l	18	< 0.003	0.018	0.076	0.014	0.031	II
Nitrate (NO3-N)	mg/l	17	0.700	1.616	3.930	1.400	2.742	II
Total nitrogen	mg/l	16	1.10	2.02	4.53	1.76	2.96	II
Organic nitrogen	mg/l	15	< 0.10	0.45	0.90	0.50	0.83	
Orthophosphate (PO4-P)	mg/l	17	0.049	0.197	1.480	0.090	0.268	IV
Total phosphorus	mg/l	17	0.092	0.231	1.485	0.111	0.332	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	0.2	0.7	1.1			I
Conductivity	µS/cm	19	362	446	539	444	504	
Calcium (Ca++)	mg/l	17	50.1	60.3	74.2	59.8	69.0	
Sulphate (SO4--)	mg/l	17	18.0	35.7	54.9	35.0	47.0	
Magnesium (Mg++)	mg/l	17	9.9	15.4	24.0	14.3	19.2	
Potassium (K+)	mg/l	17	1.3	2.3	4.9	2.2	2.9	
Sodium (Na+)	mg/l	17	12.5	17.2	24.0	16.7	22.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	17	12.4	19.4	30.4	19.0	25.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3	< 1.00	1.33	2.00			II
Copper (Cu), dissolved	µg/l	13	< 1.00	24.23	200.00	9.00	25.00	III
Chromium (Cr), total dissolved	µg/l	15	< 1.00	1.33	4.00	1.00	2.00	II
Lead (Pb), dissolved	µg/l	15	< 1.00	1.93	6.00	1.00	5.00	III
Cadmium (Cd), dissolved	µg/l	15	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	15	< 0.100	0.153	0.400	0.100	0.360	III
Nickel (Ni), dissolved	µg/l	13	< 1.00	2.15	8.00	1.00	3.80	III
Arsenic (As), dissolved	µg/l	16	< 1.00	2.44	9.00	2.00	3.50	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	16	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	17	< 0.010	0.011	0.027	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	10	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	10	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 253737 km2	2006
Distance from the mouth 1287	Altitude: 76 m	RS09
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	9	0.2	14.1	26.7	16.2		
Suspended solids	mg/l	9	3.0	23.6	59.0	19.0		
Dissolved oxygen	mg/l	9	7.0	9.9	13.1	9.3		I
BOD (5)	mg/l	9	1.7	2.9	4.9	2.7		II
COD (Mn)	mg/l	9	3.5	4.7	6.6	4.5		II
COD (Cr)	mg/l							
TOC	mg/l	3	1.7	2.9	3.8			
DOC	mg/l							
pH	-	9	7.8	8.0	8.4	8.0		II
Alkalinity - total	mmol/l	9	2.7	3.4	4.5	3.1		II
Ammonium (NH4-N)	mg/l	9	0.120	0.199	0.350	0.190		III
Nitrite (NO2-N)	mg/l	9	0.012	0.022	0.033	0.022		II
Nitrate (NO3-N)	mg/l	9	0.660	1.614	3.000	1.450		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	9	0.013	0.051	0.076	0.052		II
Total phosphorus	mg/l	9	0.085	0.142	0.203	0.127		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	9	325	424	584	376		
Calcium (Ca++)	mg/l	9	45.3	59.6	79.1	56.1		
Sulphate (SO4--)	mg/l	9	34.0	47.0	60.0	49.0		
Magnesium (Mg++)	mg/l	9	12.0	17.0	26.0	16.2		
Potassium (K+)	mg/l	9	1.8	2.6	3.9	2.3		
Sodium (Na+)	mg/l	9	10.3	17.6	26.8	15.8		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	9	16.2	22.4	36.5	18.0		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3	< 1.00	4.67	7.00			III
Copper (Cu), dissolved	µg/l	7	< 1.00	6.43	23.00	4.00		III
Chromium (Cr), total dissolved	µg/l	7	< 1.00	< 1.00	< 1.00	1.00		II
Lead (Pb), dissolved	µg/l	7	< 1.00	2.00	5.00	1.00		III
Cadmium (Cd), dissolved	µg/l	6	< 0.20	< 0.20	< 0.20	0.20		**
Mercury (Hg), dissolved	µg/l	6	< 0.100	0.183	0.400	0.100		III
Nickel (Ni), dissolved	µg/l	7	< 1.00	6.14	22.00	3.00		III
Arsenic (As), dissolved	µg/l	7	< 1.00	1.29	2.00	1.00		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0010	0.0016	0.0030	0.0010		
Anionic active surfactants (PAL-A)	mg/l	9	< 0.010	0.021	0.033	0.018		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	< 0.005	< 0.005	: 0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1	< 0.009	< 0.009	: 0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Tisa	Catchment: 140130 km2	2006
Distance from the mouth 152	Altitude: 74 m	RS10
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	23	320.0	1254.8	3500.0	814.0	2460.0	
Temperature	°C	23	0.6	13.4	26.6	14.5	24.0	
Suspended solids	mg/l	23	6.0	69.6	229.0	52.0	166.6	
Dissolved oxygen	mg/l	23	5.6	9.4	12.3	9.5	7.2	I
BOD (5)	mg/l	23	< 0.2	2.2	4.7	2.2	3.2	II
COD (Mn)	mg/l	23	2.9	5.5	8.6	5.1	7.8	II
COD (Cr)	mg/l	5	< 3.5	< 3.5	< 3.5	3.5		I
TOC	mg/l	9	1.5	3.5	6.1	3.4		
DOC	mg/l							
pH	-	23	7.4	7.9	8.3	7.9	8.1	II
							7.6	II
Alkalinity - total	mmol/l	23	2.2	3.0	4.3	2.9	3.4	
Ammonium (NH4-N)	mg/l	23	0.090	0.250	0.790	0.200	0.386	III
Nitrite (NO2-N)	mg/l	23	0.008	0.021	0.040	0.019	0.032	II
Nitrate (NO3-N)	mg/l	23	0.650	1.145	1.980	0.950	1.782	II
Total nitrogen	mg/l	2	1.05	1.08	1.11			I
Organic nitrogen	mg/l	2	< 0.10	< 0.10	< 0.10			
Orthophosphate (PO4-P)	mg/l	23	< 0.005	0.052	0.094	0.049	0.083	II
Total phosphorus	mg/l	23	0.072	0.177	0.338	0.159	0.266	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	4	2.4	38.5	137.4	7.1		IV
Conductivity	µS/cm	23	329	470	771	449	583	
Calcium (Ca++)	mg/l	23	41.9	55.4	76.3	53.1	63.7	
Sulphate (SO4--)	mg/l	23	39.0	57.1	76.0	57.0	66.8	
Magnesium (Mg++)	mg/l	23	9.2	12.2	17.8	11.7	14.1	
Potassium (K+)	mg/l	23	1.4	3.6	5.5	3.7	5.1	
Sodium (Na+)	mg/l	23	17.6	36.7	59.5	34.8	53.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	23	20.1	45.1	78.0	43.0	69.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	7	2.00	25.57	75.00	9.00		III
Copper (Cu), dissolved	µg/l	21	< 1.00	10.86	58.00	7.00	20.00	III
Chromium (Cr), total dissolved	µg/l	21	< 1.00	2.10	6.00	1.00	5.00	III
Lead (Pb), dissolved	µg/l	18	< 1.00	2.22	11.00	1.50	3.60	III
Cadmium (Cd), dissolved	µg/l	21	< 0.20	0.24	0.70	0.20	0.30	**
Mercury (Hg), dissolved	µg/l	12	< 0.100	0.108	0.200	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	20	< 1.00	4.80	51.00	2.00	6.10	III
Arsenic (As), dissolved	µg/l	21	< 1.00	2.00	4.00	2.00	3.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0017	0.0060	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	0.022	0.088	0.016	0.043	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	11	< 0.009	< 0.009	: 0.009	0.009	0.009	I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Tisa	Catchment: 145415 km2	2006
Distance from the mouth 66	Altitude: 73 m	RS11
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	1.9	14.8	28.4	16.0	23.2	
Suspended solids	mg/l	11	8.0	53.6	161.0	43.0	109.0	
Dissolved oxygen	mg/l	11	7.1	9.0	12.0	8.2	7.2	I
BOD (5)	mg/l	11	1.6	2.8	5.3	2.3	4.9	II
COD (Mn)	mg/l	11	4.4	6.0	8.4	6.0	6.7	II
COD (Cr)	mg/l							
TOC	mg/l	3	1.0	2.4	3.8			
DOC	mg/l							
pH	-	11	7.5	7.9	8.3	7.9	8.0	II
							7.6	II
Alkalinity - total	mmol/l	11	2.2	3.0	3.8	3.2	3.4	
Ammonium (NH4-N)	mg/l	11	0.130	0.251	0.420	0.240	0.340	III
Nitrite (NO2-N)	mg/l	11 <	0.003	0.024	0.036	0.022	0.034	II
Nitrate (NO3-N)	mg/l	11	0.590	1.065	1.680	1.000	1.630	II
Total nitrogen	mg/l	2	0.91	1.03	1.15			I
Organic nitrogen	mg/l	2 <	0.10	< 0.10	< 0.10			
Orthophosphate (PO4-P)	mg/l	11	0.019	0.055	0.091	0.050	0.086	II
Total phosphorus	mg/l	11	0.130	0.179	0.234	0.191	0.228	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	333	467	579	489	572	
Calcium (Ca++)	mg/l	11	41.9	54.6	61.7	55.4	61.3	
Sulphate (SO4--)	mg/l	11	45.0	57.8	67.0	60.0	66.0	
Magnesium (Mg++)	mg/l	11	9.6	12.9	21.1	12.2	16.5	
Potassium (K+)	mg/l	11	1.5	3.7	5.0	3.9	4.8	
Sodium (Na+)	mg/l	11	17.1	35.3	53.3	32.3	46.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	21.2	42.6	64.9	45.7	60.3	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3	3.00	3.67	5.00			II
Copper (Cu), dissolved	µg/l	7 <	1.00	6.43	32.00	1.00		III
Chromium (Cr), total dissolved	µg/l	7 <	1.00	1.14	2.00	1.00		II
Lead (Pb), dissolved	µg/l	5 <	1.00	< 1.00	< 1.00	1.00		II
Cadmium (Cd), dissolved	µg/l	7 <	0.20	0.21	0.30	0.20		**
Mercury (Hg), dissolved	µg/l	1 <	0.100	< 0.100	: 0.100			II
Nickel (Ni), dissolved	µg/l	6 <	1.00	2.00	5.00	1.50		III
Arsenic (As), dissolved	µg/l	6 <	1.00	1.33	3.00	1.00		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0010	0.0011	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.017	0.037	0.013	0.024	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	0.008	0.008	0.008			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	1	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	1	0.0020	0.0020	0.0020			II
Atrazine	µg/l	1 <	0.009	< 0.009	: 0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Tisa	Catchment: 157147 km2	2006
Distance from the mouth 9	Altitude: 78 m	RS12
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	23	0.8	14.0	29.2	17.5	24.5	
Suspended solids	mg/l	23	< 1.0	52.7	148.0	33.0	130.8	
Dissolved oxygen	mg/l	23	4.4	8.5	12.9	8.1	6.3	II
BOD (5)	mg/l	23	1.2	2.2	6.1	1.9	3.4	II
COD (Mn)	mg/l	23	3.7	5.7	8.8	5.5	8.0	II
COD (Cr)	mg/l							
TOC	mg/l	10	1.4	3.6	6.2	3.2		
DOC	mg/l							
pH	-	23	7.6	7.8	8.2	7.8	7.9	II
							7.6	II
Alkalinity - total	mmol/l	23	2.2	3.1	4.3	3.1	3.7	
Ammonium (NH4-N)	mg/l	23	0.120	0.323	0.670	0.250	0.634	IV
Nitrite (NO2-N)	mg/l	23	0.005	0.022	0.035	0.024	0.032	II
Nitrate (NO3-N)	mg/l	23	0.560	1.104	2.550	0.930	1.588	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.011	0.063	0.109	0.058	0.098	II
Total phosphorus	mg/l	22	0.050	0.143	0.210	0.148	0.202	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	3.6	5.8	7.9			I
Conductivity	µS/cm	23	346	494	725	486	637	
Calcium (Ca++)	mg/l	23	42.7	57.1	75.9	56.2	69.7	
Sulphate (SO4--)	mg/l	23	44.0	57.3	75.0	56.0	71.8	
Magnesium (Mg++)	mg/l	23	5.4	12.5	22.6	12.0	16.4	
Potassium (K+)	mg/l	23	1.6	3.6	5.2	3.8	5.0	
Sodium (Na+)	mg/l	23	20.1	37.8	59.5	36.4	51.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	23	21.2	46.0	84.2	44.7	69.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	8	< 1.00	17.50	81.00	7.50		III
Copper (Cu), dissolved	µg/l	20	< 1.00	7.15	39.00	2.00	15.20	III
Chromium (Cr), total dissolved	µg/l	19	< 1.00	1.84	5.00	1.00	4.20	III
Lead (Pb), dissolved	µg/l	18	< 1.00	1.72	9.00	1.00	2.30	III
Cadmium (Cd), dissolved	µg/l	19	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	10	< 0.100	0.230	0.600	0.150		III
Nickel (Ni), dissolved	µg/l	20	< 1.00	6.95	62.00	2.00	14.10	III
Arsenic (As), dissolved	µg/l	19	< 1.00	1.68	3.00	1.00	3.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0016	0.0070	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	22	< 0.010	0.023	0.110	0.015	0.039	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	9	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	9	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 64073 km2	2006
Distance from the mouth 195	Altitude: 75 m	RS13
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	1.8	12.6	24.3	13.0	21.5	
Suspended solids	mg/l	24	2.0	21.7	106.0	12.0	45.5	
Dissolved oxygen	mg/l	24	6.6	9.7	13.1	9.5	6.8	II
BOD (5)	mg/l	19	< 0.2	1.2	2.1	1.2	1.8	I
COD (Mn)	mg/l	23	1.3	3.4	4.8	3.4	4.2	I
COD (Cr)	mg/l	6	< 3.5	< 3.5	< 3.5	3.5		I
TOC	mg/l	19	0.5	2.1	4.9	1.9	3.1	
DOC	mg/l							
pH	-	16	7.5	8.0	8.4	8.0	8.2	II
							7.7	II
Alkalinity - total	mmol/l	22	2.9	3.9	4.4	4.0	4.3	
Ammonium (NH4-N)	mg/l	24	< 0.010	0.017	0.080	0.010	0.045	I
Nitrite (NO2-N)	mg/l	24	< 0.003	0.003	0.010	0.003	0.003	I
Nitrate (NO3-N)	mg/l	24	0.070	1.095	1.640	1.110	1.514	II
Total nitrogen	mg/l	20	0.58	1.55	3.20	1.37	2.72	II
Organic nitrogen	mg/l	20	< 0.10	0.48	1.55	0.13	1.19	
Orthophosphate (PO4-P)	mg/l	24	0.021	0.053	0.134	0.055	0.068	II
Total phosphorus	mg/l	24	0.042	0.095	0.184	0.090	0.126	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	300	405	488	409	483	
Calcium (Ca++)	mg/l	24	53.9	67.9	84.9	66.1	78.7	
Sulphate (SO4--)	mg/l	24	10.0	21.0	31.0	21.6	28.5	
Magnesium (Mg++)	mg/l	24	6.9	13.7	20.4	13.2	19.9	
Potassium (K+)	mg/l	24	0.5	1.1	2.0	1.0	1.5	
Sodium (Na+)	mg/l	24	6.9	11.5	17.6	11.4	16.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	6.1	14.8	25.6	14.3	23.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	4	2.00	29.75	90.00	13.50		III
Copper (Cu), dissolved	µg/l	18	< 1.00	8.11	44.00	2.50	19.60	III
Chromium (Cr), total dissolved	µg/l	21	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	17	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	21	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	22	< 0.100	0.200	0.600	0.100	0.490	III
Nickel (Ni), dissolved	µg/l	19	< 1.00	1.79	4.00	2.00	3.00	III
Arsenic (As), dissolved	µg/l	19	< 1.00	1.32	3.00	1.00	2.20	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	0.010	0.014	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.005	< 0.005	< 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	I
pp-DDT	µg/l	12	0.0020	0.0022	0.0040	0.0020	0.0020	II
Atrazine	µg/l	12	< 0.009	0.026	0.216	0.009	0.009	I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 87996 km2	2006
Distance from the mouth 136	Altitude: 74 m	RS14
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	19	250.0	1508.2	3860.0	880.0	3182.0	
Temperature	°C	19	3.7	13.7	24.2	13.8	22.9	
Suspended solids	mg/l	19	2.0	15.1	81.0	6.0	31.2	
Dissolved oxygen	mg/l	19	7.9	10.3	12.6	10.1	8.9	I
BOD (5)	mg/l	19	< 0.2	1.3	3.1	1.4	2.3	I
COD (Mn)	mg/l	19	1.3	2.4	3.8	2.2	3.2	I
COD (Cr)	mg/l	4	< 3.5	< 3.5	< 3.5	3.5		I
TOC	mg/l	15	0.8	1.8	2.6	1.8	2.6	
DOC	mg/l							
pH	-	19	7.6	8.0	8.2	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l	19	2.9	3.6	4.1	3.6	4.0	
Ammonium (NH4-N)	mg/l	19	< 0.010	0.029	0.280	0.010	0.060	I
Nitrite (NO2-N)	mg/l	19	< 0.003	< 0.003	0.003	0.003	0.003	I
Nitrate (NO3-N)	mg/l	19	0.310	0.976	1.640	0.930	1.434	II
Total nitrogen	mg/l	16	0.56	1.32	2.48	0.98	2.19	II
Organic nitrogen	mg/l	16	< 0.10	0.36	1.05	0.10	0.96	
Orthophosphate (PO4-P)	mg/l	19	0.016	0.042	0.069	0.041	0.060	II
Total phosphorus	mg/l	19	0.040	0.061	0.115	0.059	0.074	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	19	330	400	450	400	450	
Calcium (Ca++)	mg/l	19	56.4	65.6	78.9	64.2	72.8	
Sulphate (SO4--)	mg/l	19	10.0	19.1	26.8	19.0	24.3	
Magnesium (Mg++)	mg/l	19	5.8	13.1	23.3	12.5	18.1	
Potassium (K+)	mg/l	19	0.4	1.0	2.9	0.9	1.6	
Sodium (Na+)	mg/l	19	6.9	9.9	15.1	10.2	13.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	19	3.7	11.4	24.2	11.5	16.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	4	4.00	9.25	22.00	5.50		III
Copper (Cu), dissolved	µg/l	16	< 1.00	6.00	29.00	1.00	21.50	III
Chromium (Cr), total dissolved	µg/l	14	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	14	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	16	< 0.20	0.81	10.00	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	17	< 0.100	0.235	2.000	0.100	0.300	III
Nickel (Ni), dissolved	µg/l	14	< 1.00	1.21	2.00	1.00	2.00	III
Arsenic (As), dissolved	µg/l	15	< 1.00	1.40	2.00	1.00	2.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	18	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	19	< 0.010	< 0.010	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1	0.049	0.049	0.049			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	3	0.0020	0.0020	0.0020			II
Atrazine	µg/l	3	< 0.009	< 0.009	0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 89490 km2	2006
Distance from the mouth 103	Altitude: 0 m	RS15
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.0	12.7	26.0	13.1	22.1	
Suspended solids	mg/l	24	3.0	19.8	75.0	14.0	42.0	
Dissolved oxygen	mg/l	24	6.3	9.4	11.8	9.2	7.6	I
BOD (5)	mg/l	23	< 0.2	1.3	2.5	1.4	1.8	I
COD (Mn)	mg/l	24	1.8	2.8	4.9	2.7	3.6	I
COD (Cr)	mg/l	5	< 3.5	< 3.5	< 3.5	3.5	3.5	I
TOC	mg/l	18	0.6	1.5	2.6	1.6	2.2	
DOC	mg/l							
pH	-	24	7.5	7.8	8.2	7.8	7.9	II
							7.6	II
Alkalinity - total	mmol/l	24	2.8	3.7	4.3	3.7	4.2	
Ammonium (NH4-N)	mg/l	24	< 0.010	0.025	0.190	0.010	0.060	I
Nitrite (NO2-N)	mg/l	24	< 0.003	0.003	0.012	0.003	0.003	I
Nitrate (NO3-N)	mg/l	24	0.400	1.020	1.580	0.990	1.321	II
Total nitrogen	mg/l	22	0.69	1.35	2.56	1.14	2.05	II
Organic nitrogen	mg/l	21	< 0.10	0.39	1.55	0.10	0.87	
Orthophosphate (PO4-P)	mg/l	23	0.019	0.046	0.093	0.038	0.069	II
Total phosphorus	mg/l	24	0.041	0.074	0.127	0.072	0.112	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	306	405	498	399	458	
Calcium (Ca++)	mg/l	24	48.2	65.5	79.1	64.7	74.7	
Sulphate (SO4--)	mg/l	24	9.0	18.5	25.7	18.5	24.7	
Magnesium (Mg++)	mg/l	24	6.4	14.4	22.4	15.6	19.1	
Potassium (K+)	mg/l	24	0.4	0.9	1.6	0.9	1.3	
Sodium (Na+)	mg/l	24	6.5	9.7	15.5	9.7	12.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	3.5	11.2	22.9	11.2	17.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	6	6.00	22.00	69.00	14.00		III
Copper (Cu), dissolved	µg/l	20	< 1.00	4.20	18.00	1.00	11.40	III
Chromium (Cr), total dissolved	µg/l	21	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	19	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	22	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	22	< 0.100	0.114	0.400	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	20	< 1.00	1.30	3.00	1.00	2.00	III
Arsenic (As), dissolved	µg/l	21	< 1.00	1.24	3.00	1.00	2.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	< 0.010	: 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	3	0.0020	0.0020	0.0020			II
Atrazine	µg/l	3	< 0.009	< 0.009	: 0.009			I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava	Catchment: 37320 km2	2006
Distance from the mouth 17	Altitude: 75 m	RS16
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	3.0	13.9	26.8	14.4	24.1	
Suspended solids	mg/l	23	2.0	20.0	80.0	11.0	63.4	
Dissolved oxygen	mg/l	22	6.7	9.7	15.7	9.2	7.4	I
BOD (5)	mg/l	16	1.2	2.4	4.2	2.2	3.6	II
COD (Mn)	mg/l	24	2.3	3.6	9.5	3.3	4.2	I
COD (Cr)	mg/l	5	< 3.5	< 3.5	< 3.5	3.5	3.5	I
TOC	mg/l	16	< 0.5	2.3	8.9	2.0	3.2	
DOC	mg/l							
pH	-	24	7.5	7.9	8.1	7.9	8.0	II
							7.7	II
Alkalinity - total	mmol/l	24	2.6	3.6	4.0	3.6	3.8	
Ammonium (NH4-N)	mg/l	24	< 0.010	0.028	0.280	0.010	0.045	I
Nitrite (NO2-N)	mg/l	24	< 0.003	0.006	0.030	0.003	0.011	II
Nitrate (NO3-N)	mg/l	24	0.089	1.155	3.370	1.190	1.451	II
Total nitrogen	mg/l	22	0.75	1.61	4.18	1.58	2.14	II
Organic nitrogen	mg/l	20	< 0.10	0.49	1.03	0.50	0.94	
Orthophosphate (PO4-P)	mg/l	24	0.015	0.059	0.182	0.046	0.098	II
Total phosphorus	mg/l	24	0.029	0.098	0.230	0.089	0.154	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	1	6.2	6.2	6.2			I
Conductivity	µS/cm	24	309	400	501	398	451	
Calcium (Ca++)	mg/l	24	51.0	65.1	78.5	67.0	74.7	
Sulphate (SO4--)	mg/l	23	12.0	23.0	40.0	22.0	30.8	
Magnesium (Mg++)	mg/l	24	6.3	13.4	22.5	13.9	18.6	
Potassium (K+)	mg/l	22	0.5	1.0	2.7	0.9	1.5	
Sodium (Na+)	mg/l	22	6.5	10.6	19.8	9.8	13.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	5.6	11.0	25.1	10.0	14.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	7	< 1.00	13.43	31.00	17.00		III
Copper (Cu), dissolved	µg/l	23	< 1.00	7.83	19.00	7.00	16.60	III
Chromium (Cr), total dissolved	µg/l	23	< 1.00	1.22	5.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	22	< 1.00	2.36	25.00	1.00	2.00	III
Cadmium (Cd), dissolved	µg/l	24	< 0.20	0.23	0.40	0.20	0.30	**
Mercury (Hg), dissolved	µg/l	24	< 0.100	0.129	0.600	0.100	0.170	III
Nickel (Ni), dissolved	µg/l	23	< 1.00	5.26	87.00	1.00	2.80	III
Arsenic (As), dissolved	µg/l	23	< 1.00	1.57	4.00	1.00	3.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	20	< 0.010	< 0.010	: 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.005	< 0.005	: 0.005			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	9	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	9	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: /Velika Morava	Catchment: 37320 km2	2006
Distance from the mouth 35	Altitude: 0 m	RS17
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	24	73.8	316.0	1349.0	175.5	733.7	
Temperature	°C	24	0.5	12.5	29.6	11.8	22.5	
Suspended solids	mg/l	24	2.0	35.5	113.0	18.0	90.5	
Dissolved oxygen	mg/l	24	9.0	11.3	14.6	10.9	9.6	I
BOD (5)	mg/l	18	1.5	2.9	5.7	2.7	4.2	II
COD (Mn)	mg/l	24	2.9	5.2	19.0	4.3	7.8	II
COD (Cr)	mg/l	3	< 3.5	< 3.5	< 3.5			I
TOC	mg/l	13	1.2	2.8	5.1	2.8	4.7	
DOC	mg/l							
pH	-	2	7.5	7.8	8.0			II
Alkalinity - total	mmol/l	24	2.4	3.8	4.4	4.0	4.4	II
Ammonium (NH4-N)	mg/l	24	< 0.010	0.036	0.120	0.010	0.101	I
Nitrite (NO2-N)	mg/l	24	< 0.003	0.003	0.008	0.003	0.004	I
Nitrate (NO3-N)	mg/l	24	0.810	1.820	2.430	1.860	2.227	II
Total nitrogen	mg/l	21	1.25	2.31	3.81	2.13	3.50	II
Organic nitrogen	mg/l	20	< 0.10	0.56	1.62	0.25	1.49	
Orthophosphate (PO4-P)	mg/l	24	0.055	0.092	0.162	0.083	0.140	III
Total phosphorus	mg/l	24	0.078	0.139	0.233	0.122	0.202	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	285	444	525	470	500	
Calcium (Ca++)	mg/l	24	36.8	62.1	74.9	64.3	72.5	
Sulphate (SO4--)	mg/l	24	15.0	29.9	40.0	31.1	35.0	
Magnesium (Mg++)	mg/l	24	9.2	17.0	25.0	17.2	21.9	
Potassium (K+)	mg/l	24	1.4	2.1	3.1	2.0	2.8	
Sodium (Na+)	mg/l	24	9.6	14.4	19.9	14.0	18.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	6.0	10.4	17.2	10.6	14.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	5	< 1.00	2.00	5.00	1.00		II
Copper (Cu), dissolved	µg/l	17	< 1.00	10.65	22.00	10.00	20.40	III
Chromium (Cr), total dissolved	µg/l	21	< 1.00	1.10	2.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	21	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	21	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	19	< 0.100	0.353	1.000	0.300	0.660	III
Nickel (Ni), dissolved	µg/l	20	< 1.00	3.85	14.00	3.00	9.00	III
Arsenic (As), dissolved	µg/l	22	< 1.00	2.05	8.00	1.50	3.90	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0010	0.0010	0.0020	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	0.011	0.020	0.010	0.012	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	7	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	7	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	7	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 570896 km2	2006
Distance from the mouth 1071	Altitude: 70 m	RO01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2070.0	6436.4	15800.0	5010.0	12320.0	
Temperature	°C	24	0.5	16.0	27.5	19.5	24.6	
Suspended solids	mg/l	24	24.0	31.7	50.0	31.0	36.8	
Dissolved oxygen	mg/l	24	5.9	8.8	14.0	8.2	6.9	II
BOD (5)	mg/l	24	0.6	1.8	4.0	1.4	3.0	II
COD (Mn)	mg/l	24	1.3	3.1	5.7	2.8	4.3	I
COD (Cr)	mg/l	24	7.0	9.7	14.4	9.9	12.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.1	7.8	8.3	7.7	8.0	II
							7.6	II
Alkalinity - total	mmol/l	24	2.8	3.2	4.2	3.2	3.6	
Ammonium (NH4-N)	mg/l	24	0.020	0.267	1.476	0.186	0.534	III
Nitrite (NO2-N)	mg/l	24	0.010	0.025	0.057	0.025	0.035	II
Nitrate (NO3-N)	mg/l	24	0.350	1.076	1.808	1.130	1.525	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.047	0.195	0.023	0.121	III
Total phosphorus	mg/l	24	0.010	0.106	0.388	0.071	0.211	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14	1.2	5.1	12.1	4.7	10.0	I
Conductivity	µS/cm	24	380	434	606	413	489	
Calcium (Ca++)	mg/l	24	38.9	52.5	63.2	52.6	58.9	
Sulphate (SO4--)	mg/l	24	26.9	44.2	93.5	39.4	63.1	
Magnesium (Mg++)	mg/l	24	8.7	15.2	27.2	13.6	22.0	
Potassium (K+)	mg/l	24	1.0	2.9	4.0	3.0	3.0	
Sodium (Na+)	mg/l	24	13.0	18.9	30.0	18.0	23.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	15.2	20.1	25.9	19.2	23.9	
Silicates (SiO2)	mg/l	23	2.06	6.18	10.62	6.43	9.10	
Zinc (Zn), dissolved	µg/l	24	2.60	6.10	10.90	5.30	9.28	III
Copper (Cu), dissolved	µg/l	24	1.90	3.67	5.90	3.45	5.17	III
Chromium (Cr), total dissolved	µg/l	24	0.65	1.75	4.10	1.32	3.51	III
Lead (Pb), dissolved	µg/l	24	0.12	1.16	3.60	0.76	2.84	III
Cadmium (Cd), dissolved	µg/l	24	0.04	0.12	0.51	0.10	0.21	III
Mercury (Hg), dissolved	µg/l	24	0.025	0.054	0.091	0.049	0.073	II
Nickel (Ni), dissolved	µg/l	24	0.70	1.51	2.50	1.40	2.00	III
Arsenic (As), dissolved	µg/l	19	0.72	1.86	2.60	2.00	2.52	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	2	1.31	1.51	1.70			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	24	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	24	0.025	0.044	0.067	0.046	0.058	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	0.010	0.011	0.016	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	10	0.0055	0.0055	0.0055	0.0055		II
Atrazine	µg/l	7	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.32	0.45	0.30		II
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.790	4.083	7.900	3.300	7.600	
Faecal coliforms (44 C)	1000CFU/100m	12	0.140	0.548	1.400	0.445	0.889	
Faecal streptococci	1000CFU/100m	13	0.009	0.028	0.070	0.017	0.058	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 570896 km2	2006
Distance from the mouth 1071	Altitude: 70 m	RO01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2070.0	6436.4	15800.0	5010.0	12320.0	
Temperature	°C	20	2.0	16.8	27.3	20.0	24.5	
Suspended solids	mg/l	20	21.0	27.7	35.0	27.0	32.0	
Dissolved oxygen	mg/l	20	6.6	8.4	12.8	7.9	6.7	II
BOD (5)	mg/l	20	0.7	1.6	3.2	1.5	2.8	I
COD (Mn)	mg/l	20	1.3	2.8	4.2	2.8	3.5	I
COD (Cr)	mg/l	20	6.8	9.1	10.9	9.2	10.1	II
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.2	7.8	8.3	7.8	8.1	II
							7.6	II
Alkalinity - total	mmol/l	20	2.8	3.2	4.0	3.2	3.4	
Ammonium (NH4-N)	mg/l	20	0.020	0.210	0.543	0.159	0.424	III
Nitrite (NO2-N)	mg/l	20	0.008	0.021	0.033	0.022	0.029	II
Nitrate (NO3-N)	mg/l	20	0.100	1.063	2.260	1.141	1.448	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	20	0.007	0.032	0.094	0.022	0.081	II
Total phosphorus	mg/l	20	0.020	0.078	0.190	0.062	0.160	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	1.9	5.1	10.5	4.4	9.0	I
Conductivity	µS/cm	20	391	433	560	416	481	
Calcium (Ca++)	mg/l	20	37.2	53.0	64.1	53.3	59.1	
Sulphate (SO4--)	mg/l	20	29.6	44.6	59.0	45.1	55.6	
Magnesium (Mg++)	mg/l	20	9.7	15.4	22.3	13.6	20.5	
Potassium (K+)	mg/l	20	1.0	2.7	4.0	3.0	3.0	
Sodium (Na+)	mg/l	20	14.0	18.5	27.0	17.5	22.5	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	20	15.8	21.4	31.6	21.4	26.0	
Silicates (SiO2)	mg/l	20	2.29	5.65	10.48	5.56	7.95	
Zinc (Zn), dissolved	µg/l	20	2.20	5.41	8.80	4.80	7.28	III
Copper (Cu), dissolved	µg/l	20	1.60	3.27	4.50	3.55	4.41	III
Chromium (Cr), total dissolved	µg/l	20	0.53	1.34	4.00	0.99	2.43	III
Lead (Pb), dissolved	µg/l	20	0.10	0.90	4.10	0.48	1.75	III
Cadmium (Cd), dissolved	µg/l	20	0.04	0.12	0.47	0.10	0.30	III
Mercury (Hg), dissolved	µg/l	20	0.025	0.049	0.081	0.049	0.065	II
Nickel (Ni), dissolved	µg/l	20	0.75	1.30	2.90	1.17	1.82	III
Arsenic (As), dissolved	µg/l	16	0.89	1.76	2.50	1.80	2.40	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	2	0.96	1.48	2.00			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	20	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	20	0.025	0.035	0.057	0.033	0.047	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	0.010	0.011	0.015	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	8	0.0055	0.0055	0.0055	0.0055		II
Atrazine	µg/l	6	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	9	0.30	0.38	1.00	0.30		III
Carbon tetrachloride	µg/l	9	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	9	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	9	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	1.700	3.940	7.900	3.300		
Faecal coliforms (44 C)	1000CFU/100m	10	0.170	0.415	0.900	0.300		
Faecal streptococci	1000CFU/100m	11	0.005	0.025	0.079	0.011	0.079	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 570896 km2	2006
Distance from the mouth 1071	Altitude: 0 m	RO01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2070.0	6436.4	15800.0	5010.0	12320.0	
Temperature	°C	19	2.0	16.9	27.5	19.0	24.6	
Suspended solids	mg/l	19	24.0	29.7	37.0	30.0	33.2	
Dissolved oxygen	mg/l	19	6.5	8.3	12.6	7.6	6.7	II
BOD (5)	mg/l	19	0.7	1.7	3.5	1.5	2.5	I
COD (Mn)	mg/l	19	1.9	3.0	3.9	3.1	3.6	I
COD (Cr)	mg/l	19	7.8	9.8	11.6	9.8	11.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	19	7.2	7.8	8.2	7.8	8.0	II
							7.6	II
Alkalinity - total	mmol/l	19	2.7	3.2	3.9	3.2	3.4	
Ammonium (NH4-N)	mg/l	19	0.020	0.209	0.652	0.194	0.360	III
Nitrite (NO2-N)	mg/l	19	0.011	0.019	0.027	0.019	0.024	II
Nitrate (NO3-N)	mg/l	19	0.386	1.106	1.582	1.152	1.519	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	19	0.009	0.035	0.140	0.021	0.072	II
Total phosphorus	mg/l	19	0.022	0.092	0.280	0.070	0.169	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	2.7	5.2	11.0	3.6	8.9	I
Conductivity	µS/cm	19	391	433	560	419	470	
Calcium (Ca++)	mg/l	19	34.0	51.8	60.8	53.7	57.4	
Sulphate (SO4--)	mg/l	19	29.7	44.1	58.4	42.6	55.7	
Magnesium (Mg++)	mg/l	19	9.7	15.4	23.8	13.6	21.5	
Potassium (K+)	mg/l	19	2.0	2.7	4.0	3.0	3.0	
Sodium (Na+)	mg/l	19	14.0	18.3	27.0	17.0	21.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	19	15.5	21.1	32.1	21.0	25.9	
Silicates (SiO2)	mg/l	18	2.10	5.59	9.08	5.92	8.17	
Zinc (Zn), dissolved	µg/l	19	2.70	6.43	11.80	5.40	9.96	III
Copper (Cu), dissolved	µg/l	19	1.80	3.83	5.20	3.90	4.94	III
Chromium (Cr), total dissolved	µg/l	19	0.79	1.64	3.90	1.33	2.76	III
Lead (Pb), dissolved	µg/l	19	0.23	1.17	4.10	0.79	2.10	III
Cadmium (Cd), dissolved	µg/l	19	0.04	0.13	0.38	0.10	0.29	III
Mercury (Hg), dissolved	µg/l	19	0.025	0.057	0.096	0.050	0.078	II
Nickel (Ni), dissolved	µg/l	19	1.00	1.56	3.20	1.41	2.08	III
Arsenic (As), dissolved	µg/l	15	0.75	1.96	3.00	2.00	2.56	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	2	1.20	1.34	1.47			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	19	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	19	0.025	0.041	0.059	0.041	0.056	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	0.010	0.013	0.019	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	8	0.0055	0.0074	0.0162	0.0055		III
Atrazine	µg/l	6	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	9	0.30	0.31	0.39	0.30		II
Carbon tetrachloride	µg/l	9	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	9	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	9	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	1.700	5.550	10.900	4.900		
Faecal coliforms (44 C)	1000CFU/100m	10	0.140	0.583	1.300	0.400		
Faecal streptococci	1000CFU/100m	11	0.009	0.034	0.109	0.017	0.090	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 580100 km2	2006
Distance from the mouth 834	Altitude: 31 m	RO02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2480.0	6615.6	16100.0	5010.0	12600.0	
Temperature	°C	21	1.0	13.3	27.0	16.0	25.5	
Suspended solids	mg/l	21	22.0	31.7	53.0	29.0	40.0	
Dissolved oxygen	mg/l	21	6.2	9.1	13.0	9.3	6.4	II
BOD (5)	mg/l	21	1.0	1.8	3.1	1.5	2.9	I
COD (Mn)	mg/l	21	1.7	2.8	4.4	2.7	3.8	I
COD (Cr)	mg/l	21	6.8	9.5	11.1	9.8	10.6	II
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.2	7.8	8.3	7.8	8.2	II
							7.6	II
Alkalinity - total	mmol/l	21	2.7	3.3	4.3	3.3	3.7	
Ammonium (NH4-N)	mg/l	21	0.020	0.174	0.473	0.139	0.326	III
Nitrite (NO2-N)	mg/l	21	0.008	0.018	0.039	0.016	0.024	II
Nitrate (NO3-N)	mg/l	21	0.307	1.038	1.717	0.994	1.491	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	21	0.007	0.062	0.290	0.029	0.160	III
Total phosphorus	mg/l	21	0.020	0.123	0.388	0.075	0.250	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14	1.9	4.4	6.6	4.6	6.0	I
Conductivity	µS/cm	21	362	448	565	442	507	
Calcium (Ca++)	mg/l	21	39.7	51.7	61.5	51.3	56.7	
Sulphate (SO4--)	mg/l	21	20.2	41.7	62.4	43.0	50.4	
Magnesium (Mg++)	mg/l	21	11.6	16.5	21.3	16.5	20.4	
Potassium (K+)	mg/l	21	2.0	2.8	4.0	3.0	3.0	
Sodium (Na+)	mg/l	21	14.0	19.1	29.0	18.0	25.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	21	13.8	21.1	31.5	20.9	26.5	
Silicates (SiO2)	mg/l	18	2.94	6.20	9.20	6.01	8.78	
Zinc (Zn), dissolved	µg/l	22	1.47	5.17	8.30	4.85	7.69	III
Copper (Cu), dissolved	µg/l	22	0.90	3.37	5.60	3.50	4.96	III
Chromium (Cr), total dissolved	µg/l	22	0.50	1.69	3.90	1.41	3.26	III
Lead (Pb), dissolved	µg/l	22	0.28	1.04	3.10	0.58	2.39	III
Cadmium (Cd), dissolved	µg/l	22	0.07	0.20	0.94	0.11	0.41	III
Mercury (Hg), dissolved	µg/l	22	0.025	0.061	0.110	0.049	0.093	II
Nickel (Ni), dissolved	µg/l	22	1.00	1.41	2.95	1.27	1.98	III
Arsenic (As), dissolved	µg/l	16	0.99	1.81	2.50	1.91	2.35	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	2	2.60	2.76	2.92			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	21	0.025	0.047	0.110	0.050	0.061	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	0.010	0.011	0.014	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0400	0.0400	0.0400	0.0400	0.0400	I
pp-DDT	µg/l	11	0.0055	0.0082	0.0349	0.0055	0.0055	II
Atrazine	µg/l	10	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	13	0.30	7.46	89.94	0.30	2.43	V
Carbon tetrachloride	µg/l	13	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	13	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	13	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.330	2.883	7.900	2.550		
Faecal coliforms (44 C)	1000CFU/100m	10	0.080	0.286	0.490	0.300		
Faecal streptococci	1000CFU/100m	11	0.007	0.021	0.049	0.014	0.049	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 580100 km2	2006
Distance from the mouth 834	Altitude: 31 m	RO02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2480.0	6615.6	16100.0	5010.0	12600.0	
Temperature	°C	20	1.0	13.5	26.5	16.8	24.7	
Suspended solids	mg/l	20	21.0	27.4	42.0	25.0	32.4	
Dissolved oxygen	mg/l	20	5.7	8.9	13.1	8.8	6.3	II
BOD (5)	mg/l	20	0.8	1.6	2.8	1.5	2.7	I
COD (Mn)	mg/l	20	1.4	2.7	4.6	2.6	3.2	I
COD (Cr)	mg/l	20	7.3	9.3	12.1	9.1	10.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.2	7.8	8.2	7.9	8.1	II
							7.6	II
Alkalinity - total	mmol/l	20	2.7	3.3	4.2	3.3	3.7	
Ammonium (NH4-N)	mg/l	20	0.020	0.167	0.505	0.132	0.286	II
Nitrite (NO2-N)	mg/l	20	0.009	0.019	0.042	0.018	0.024	II
Nitrate (NO3-N)	mg/l	20	0.431	1.054	1.582	1.109	1.434	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	20	0.013	0.053	0.200	0.034	0.106	III
Total phosphorus	mg/l	20	0.019	0.105	0.290	0.065	0.226	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14	1.7	4.0	6.9	4.0	5.7	I
Conductivity	µS/cm	20	360	443	558	433	507	
Calcium (Ca++)	mg/l	20	41.3	52.3	64.1	52.3	58.1	
Sulphate (SO4--)	mg/l	20	16.8	43.9	71.8	45.7	53.9	
Magnesium (Mg++)	mg/l	20	11.6	17.4	26.2	17.0	21.4	
Potassium (K+)	mg/l	20	2.0	2.7	4.0	3.0	3.0	
Sodium (Na+)	mg/l	20	14.0	18.9	26.0	18.0	25.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	20	13.1	21.0	31.8	20.5	25.2	
Silicates (SiO2)	mg/l	17	2.56	6.25	9.97	6.47	8.64	
Zinc (Zn), dissolved	µg/l	21	1.60	5.07	8.40	5.20	7.40	III
Copper (Cu), dissolved	µg/l	21	1.40	3.45	6.80	3.20	4.90	III
Chromium (Cr), total dissolved	µg/l	21	0.45	1.34	2.60	1.10	2.20	III
Lead (Pb), dissolved	µg/l	21	0.10	0.82	2.20	0.57	2.10	III
Cadmium (Cd), dissolved	µg/l	21	0.09	0.19	0.63	0.14	0.38	III
Mercury (Hg), dissolved	µg/l	21	0.025	0.097	0.980	0.049	0.084	II
Nickel (Ni), dissolved	µg/l	21	0.93	1.30	2.90	1.13	1.70	III
Arsenic (As), dissolved	µg/l	16	0.87	1.81	2.60	1.90	2.50	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	2	2.10	2.42	2.73			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	20	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	20	0.025	0.040	0.099	0.035	0.054	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	0.010	0.010	0.010	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0400	0.0400	0.0400	0.0400	0.0400	I
pp-DDT	µg/l	11	0.0055	0.0063	0.0143	0.0055	0.0055	II
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	12	0.30	45.51	542.14	0.30	0.92	III
Carbon tetrachloride	µg/l	12	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	12	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	12	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.490	2.359	7.900	1.950		
Faecal coliforms (44 C)	1000CFU/100m	10	0.070	0.183	0.330	0.170		
Faecal streptococci	1000CFU/100m	11	0.004	0.019	0.079	0.007	0.033	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 580100 km2	2006
Distance from the mouth 834	Altitude: 16 m	RO02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2480.0	6615.6	16100.0	5010.0	12600.0	
Temperature	°C	20	1.0	13.6	26.5	17.0	24.6	
Suspended solids	mg/l	20	18.0	28.5	45.0	27.5	36.0	
Dissolved oxygen	mg/l	20	5.9	8.9	13.1	9.0	6.3	II
BOD (5)	mg/l	20	0.8	1.7	3.2	1.5	2.8	I
COD (Mn)	mg/l	20	1.8	3.0	4.2	3.0	3.6	I
COD (Cr)	mg/l	20	6.8	9.9	13.6	9.8	11.1	II
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.2	7.9	8.3	7.9	8.1	II
							7.6	II
Alkalinity - total	mmol/l	20	2.7	3.3	4.3	3.3	3.6	
Ammonium (NH4-N)	mg/l	20	0.038	0.191	0.528	0.190	0.254	II
Nitrite (NO2-N)	mg/l	20	0.009	0.019	0.036	0.018	0.025	II
Nitrate (NO3-N)	mg/l	20	0.452	1.227	1.988	1.199	1.809	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	20	0.005	0.058	0.230	0.035	0.124	III
Total phosphorus	mg/l	20	0.010	0.116	0.300	0.082	0.243	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14	1.5	4.7	7.4	4.7	6.0	I
Conductivity	µS/cm	20	365	447	559	439	512	
Calcium (Ca++)	mg/l	20	39.7	53.1	62.5	54.0	57.8	
Sulphate (SO4--)	mg/l	20	17.5	46.0	81.1	45.6	57.7	
Magnesium (Mg++)	mg/l	20	11.6	16.8	26.2	16.5	20.5	
Potassium (K+)	mg/l	20	2.0	2.8	4.0	3.0	3.0	
Sodium (Na+)	mg/l	20	14.0	19.3	28.0	18.0	25.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	20	13.8	21.0	31.5	20.7	26.6	
Silicates (SiO2)	mg/l	16	2.70	6.09	9.66	6.09	8.37	
Zinc (Zn), dissolved	µg/l	21	1.51	5.65	9.50	5.00	8.90	III
Copper (Cu), dissolved	µg/l	21	1.50	3.76	7.70	3.80	4.90	III
Chromium (Cr), total dissolved	µg/l	21	0.55	1.64	3.60	1.28	3.20	III
Lead (Pb), dissolved	µg/l	21	0.10	1.11	3.20	0.72	2.70	III
Cadmium (Cd), dissolved	µg/l	21	0.10	0.22	0.52	0.15	0.44	III
Mercury (Hg), dissolved	µg/l	21	0.025	0.061	0.110	0.049	0.090	II
Nickel (Ni), dissolved	µg/l	21	1.00	1.55	2.70	1.50	2.00	III
Arsenic (As), dissolved	µg/l	16	0.89	1.98	2.73	2.36	2.56	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	2	2.65	2.78	2.90			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	20	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	20	0.025	0.045	0.120	0.047	0.060	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	0.010	0.010	0.012	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0400	0.0400	0.0400	0.0400	0.0400	I
pp-DDT	µg/l	11	0.0055	0.0093	0.0309	0.0055	0.0219	IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	12	0.30	0.93	7.90	0.30	0.30	II
Carbon tetrachloride	µg/l	12	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	12	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	12	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.400	2.920	7.900	2.700		
Faecal coliforms (44 C)	1000CFU/100m	10	0.110	0.243	0.490	0.220		
Faecal streptococci	1000CFU/100m	11	0.007	0.020	0.079	0.009	0.033	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 676150 km2	2006
Distance from the mouth 432	Altitude: 16 m	RO03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2880.0	7088.0	16400.0	5500.0	13460.0	
Temperature	°C	11	0.5	14.7	25.9	16.5	24.0	
Suspended solids	mg/l	11	15.0	46.0	113.0	35.0	105.0	
Dissolved oxygen	mg/l	11	8.1	9.8	13.2	9.3	8.1	I
BOD (5)	mg/l	11	2.2	3.2	4.1	3.1	3.9	II
COD (Mn)	mg/l	11	3.0	4.3	6.0	4.0	5.6	II
COD (Cr)	mg/l	11	8.1	10.7	13.2	10.9	12.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.4	7.8	8.2	7.8		II
Alkalinity - total	mmol/l	11	3.0	3.3	3.8	3.2	3.6	II
Ammonium (NH4-N)	mg/l	11	0.131	0.257	0.411	0.234	0.395	III
Nitrite (NO2-N)	mg/l	11	0.012	0.026	0.046	0.025	0.033	II
Nitrate (NO3-N)	mg/l	11	0.928	1.423	2.360	1.410	1.770	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.017	0.048	0.089	0.046	0.070	II
Total phosphorus	mg/l	11	0.064	0.104	0.160	0.098	0.142	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	8	1.1	2.7	3.2	2.9		I
Conductivity	µS/cm	11	353	416	529	397	484	
Calcium (Ca++)	mg/l	11	51.2	64.3	78.4	61.0	76.8	
Sulphate (SO4--)	mg/l	11	38.4	57.5	95.5	49.9	84.0	
Magnesium (Mg++)	mg/l	11	10.6	15.7	21.9	17.0	19.9	
Potassium (K+)	mg/l	11	1.5	2.5	4.4	2.4	3.1	
Sodium (Na+)	mg/l	11	9.9	17.7	26.5	17.8	24.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	16.2	29.9	42.6	29.4	39.1	
Silicates (SiO2)	mg/l	10	2.24	5.95	10.01	5.34		
Zinc (Zn), dissolved	µg/l	11	3.50	6.91	13.00	6.80	8.20	III
Copper (Cu), dissolved	µg/l	11	1.80	2.74	4.20	2.70	3.90	III
Chromium (Cr), total dissolved	µg/l	11	0.95	1.55	2.20	1.50	2.00	II
Lead (Pb), dissolved	µg/l	11	0.22	0.86	1.30	0.93	1.12	III
Cadmium (Cd), dissolved	µg/l	11	0.04	0.09	0.17	0.09	0.14	III
Mercury (Hg), dissolved	µg/l	11	0.030	0.093	0.160	0.080	0.150	III
Nickel (Ni), dissolved	µg/l	10	0.45	1.31	2.10	1.20		III
Arsenic (As), dissolved	µg/l	10	0.70	1.68	2.70	1.85		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	1	2.20	2.20	2.20			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0050	0.0055	0.0110	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	11	0.027	0.039	0.053	0.037	0.048	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	0.010	0.010	0.010	0.010	0.010	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0069	0.0100	0.0055		II
Atrazine	µg/l	7	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.38	1.07	0.30		III
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.170	0.683	1.700	0.348	1.300	
Faecal coliforms (44 C)	1000CFU/100m	11	0.014	0.148	0.700	0.110	0.170	
Faecal streptococci	1000CFU/100m	11	0.004	0.014	0.034	0.009	0.033	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 676150 km2	2006
Distance from the mouth 432	Altitude: 16 m	RO03
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2880.0	7088.0	16400.0	5500.0	13460.0	
Temperature	°C	7	3.5	16.4	25.0	16.5		
Suspended solids	mg/l	7	13.0	33.9	102.0	18.0		
Dissolved oxygen	mg/l	7	7.9	9.5	12.5	9.3		I
BOD (5)	mg/l	7	2.1	2.7	3.7	2.5		II
COD (Mn)	mg/l	7	2.8	3.7	5.2	3.3		II
COD (Cr)	mg/l	7	8.0	9.2	11.0	9.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	7	7.6	7.9	8.2	7.9		II
Alkalinity - total	mmol/l	7	2.7	3.1	3.5	3.1		II
Ammonium (NH4-N)	mg/l	7	0.119	0.206	0.399	0.201		III
Nitrite (NO2-N)	mg/l	7	0.014	0.022	0.038	0.018		II
Nitrate (NO3-N)	mg/l	7	1.084	1.281	1.480	1.298		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	7	0.023	0.047	0.070	0.045		II
Total phosphorus	mg/l	7	0.071	0.098	0.150	0.096		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	6	2.0	2.8	3.2	2.9		I
Conductivity	µS/cm	7	349	388	498	370		
Calcium (Ca++)	mg/l	7	54.4	60.7	73.6	58.2		
Sulphate (SO4--)	mg/l	7	37.4	53.4	90.2	49.1		
Magnesium (Mg++)	mg/l	7	11.1	15.2	19.5	14.3		
Potassium (K+)	mg/l	7	1.9	2.3	2.9	2.2		
Sodium (Na+)	mg/l	7	11.5	15.4	22.3	13.3		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	7	19.6	26.5	35.5	25.5		
Silicates (SiO2)	mg/l	7	2.11	4.84	8.78	4.51		
Zinc (Zn), dissolved	µg/l	7	2.60	5.17	8.10	4.60		III
Copper (Cu), dissolved	µg/l	7	1.50	2.34	2.90	2.40		III
Chromium (Cr), total dissolved	µg/l	7	0.89	1.18	1.40	1.13		II
Lead (Pb), dissolved	µg/l	7	0.35	0.67	0.97	0.69		II
Cadmium (Cd), dissolved	µg/l	7	0.04	0.09	0.17	0.09		III
Mercury (Hg), dissolved	µg/l	7	0.030	0.087	0.150	0.110		III
Nickel (Ni), dissolved	µg/l	6	0.66	1.00	1.40	0.99		III
Arsenic (As), dissolved	µg/l	6	1.10	1.97	2.70	1.90		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	1	2.10	2.10	2.10			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	7	0.025	0.031	0.051	0.027		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	0.010	0.010	0.010	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	7	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	7	0.0055	0.0055	0.0055	0.0055		II
Atrazine	µg/l	5	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	6	0.30	0.31	0.33	0.30		II
Carbon tetrachloride	µg/l	6	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	6	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	6	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	7	0.110	0.355	0.700	0.278		
Faecal coliforms (44 C)	1000CFU/100m	7	0.011	0.065	0.141	0.034		
Faecal streptococci	1000CFU/100m	7	0.002	0.009	0.027	0.005		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 676150 km2	2006
Distance from the mouth 432	Altitude: 14 m	RO03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2880.0	7088.0	16400.0	5500.0	13460.0	
Temperature	°C	7	3.5	16.4	25.0	16.5		
Suspended solids	mg/l	7	17.0	43.1	127.0	23.0		
Dissolved oxygen	mg/l	7	8.0	9.4	12.1	9.2		I
BOD (5)	mg/l	7	2.0	2.9	3.9	3.0		II
COD (Mn)	mg/l	7	2.7	4.2	5.6	4.2		II
COD (Cr)	mg/l	7	7.2	9.9	12.1	10.2		II
TOC	mg/l							
DOC	mg/l							
pH	-	7	7.6	7.9	8.2	7.9		II
Alkalinity - total	mmol/l	7	2.8	3.2	3.7	3.2		II
Ammonium (NH4-N)	mg/l	7	0.146	0.270	0.479	0.278		III
Nitrite (NO2-N)	mg/l	7	0.008	0.023	0.051	0.019		II
Nitrate (NO3-N)	mg/l	7	0.978	1.466	2.330	1.310		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	7	0.032	0.052	0.090	0.050		II
Total phosphorus	mg/l	7	0.071	0.109	0.190	0.106		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	6	2.6	3.1	3.9	3.1		I
Conductivity	µS/cm	7	351	393	515	366		
Calcium (Ca++)	mg/l	7	52.8	61.9	76.8	59.6		
Sulphate (SO4--)	mg/l	7	39.1	53.2	86.4	53.7		
Magnesium (Mg++)	mg/l	7	10.9	14.5	19.5	12.1		
Potassium (K+)	mg/l	7	1.8	2.4	3.1	2.4		
Sodium (Na+)	mg/l	7	10.4	15.5	24.4	13.2		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	7	21.0	27.8	39.1	25.1		
Silicates (SiO2)	mg/l	7	2.22	4.33	7.92	4.28		
Zinc (Zn), dissolved	µg/l	7	6.10	7.31	9.70	6.60		III
Copper (Cu), dissolved	µg/l	7	1.20	2.84	3.60	3.20		III
Chromium (Cr), total dissolved	µg/l	7	1.10	1.42	1.80	1.40		II
Lead (Pb), dissolved	µg/l	7	0.40	0.79	1.09	0.77		III
Cadmium (Cd), dissolved	µg/l	7	0.07	0.09	0.11	0.09		III
Mercury (Hg), dissolved	µg/l	7	0.050	0.124	0.240	0.110		III
Nickel (Ni), dissolved	µg/l	6	0.69	1.24	1.60	1.35		III
Arsenic (As), dissolved	µg/l	6	1.10	2.08	3.00	2.15		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	1	1.50	1.50	1.50			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	7	0.036	0.047	0.075	0.042		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	0.010	0.010	0.010	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	7	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	7	0.0055	0.0122	0.0348	0.0055		IV
Atrazine	µg/l	6	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	5	0.30	0.33	0.43	0.30		II
Carbon tetrachloride	µg/l	5	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	5	0.30	0.32	0.40	0.30		II
Tetrachloroethylene	µg/l	5	0.25	0.26	0.31	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	7	0.170	0.460	0.790	0.345		
Faecal coliforms (44 C)	1000CFU/100m	7	0.009	0.066	0.140	0.033		
Faecal streptococci	1000CFU/100m	7	0.002	0.021	0.110	0.005		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 698600 km2	2006
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2930.0	7370.2	15600.0	6120.0	13660.0	
Temperature	°C	22	1.0	14.7	28.0	17.0	25.0	
Suspended solids	mg/l	22	6.0	39.8	186.0	29.5	71.0	
Dissolved oxygen	mg/l	22	5.6	8.3	11.4	8.1	6.4	II
BOD (5)	mg/l	21	1.1	2.5	4.5	2.6	3.5	II
COD (Mn)	mg/l	14	1.6	3.5	4.6	3.6	4.4	I
COD (Cr)	mg/l	21	22.4	28.9	43.6	28.9	33.7	III
TOC	mg/l	5	3.1	5.6	7.8	5.4		
DOC	mg/l							
pH	-	22	7.3	8.0	8.4	8.0	8.3	II
							7.5	II
Alkalinity - total	mmol/l	11	2.9	3.1	4.1	3.0	3.5	
Ammonium (NH4-N)	mg/l	22	0.042	0.339	0.720	0.330	0.506	III
Nitrite (NO2-N)	mg/l	22 <	0.005	0.033	0.092	0.027	0.066	III
Nitrate (NO3-N)	mg/l	22	0.400	1.164	2.400	1.026	1.713	II
Total nitrogen	mg/l	21	1.12	2.03	3.39	2.02	2.95	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.040	0.105	0.036	0.067	II
Total phosphorus	mg/l	21	0.013	0.113	0.273	0.104	0.201	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	7.1	10.7	14.8			I
Conductivity	µS/cm	22	335	437	578	421	536	
Calcium (Ca++)	mg/l	12	44.5	53.4	70.0	52.3	60.0	
Sulphate (SO4--)	mg/l	11	21.9	28.8	41.0	28.2	32.1	
Magnesium (Mg++)	mg/l	12	11.9	19.7	34.3	18.0	28.5	
Potassium (K+)	mg/l	5	1.2	1.6	2.0	1.4		
Sodium (Na+)	mg/l	6	16.8	44.6	177.5	18.0		
Manganese (Mn)	mg/l	7	0.0030	0.0373	0.1200	0.0220		
Iron (Fe)	mg/l	7	0.380	0.757	1.120	0.750		
Chloride (Cl-)	mg/l	12	27.5	31.0	41.2	28.8	35.9	
Silicates (SiO2)	mg/l	23	1.85	5.80	9.17	5.64	8.27	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	1.20	8.29	18.00	4.10		II
Copper (Cu)	µg/l	7	1.80	8.83	39.00	4.40		III
Chromium (Cr) - total	µg/l	7	1.10	2.29	5.10	1.80		II
Lead (Pb)	µg/l	7	1.40	2.49	4.20	2.20		II
Cadmium (Cd)	µg/l	7	0.08	0.85	3.40	0.18		IV
Mercury (Hg)	µg/l	7	0.025	0.040	0.101	0.029		III
Nickel (Ni)	µg/l	7	1.00	1.59	3.30	1.20		II
Arsenic (As)	µg/l	7	0.09	0.26	0.45	0.25		II
Aluminium (Al)	µg/l	2	33.10	38.95	44.80			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.067	0.286	0.043	0.101	
AOX	µg/l	6	10.20	13.23	19.90	12.15		II
Petroleum hydrocarbons	mg/l	12	0.012	0.033	0.105	0.025	0.063	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0100	0.0356	0.0700	0.0400		V
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	15	0.30	0.72	6.41	0.30	0.42	II
Carbon tetrachloride	µg/l	15	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	15	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	15	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.450	35.087	160.000	11.500		
Faecal coliforms (44 C)	1000CFU/100m	10	0.160	27.105	92.000	4.450		
Faecal streptococci	1000CFU/100m	11	0.005	0.509	2.400	0.130	1.600	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 698600 km2	2006
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2930.0	7370.2	15600.0	6120.0	13660.0	
Temperature	°C	22	1.0	14.4	28.0	16.5	25.0	
Suspended solids	mg/l	22	5.0	42.0	225.0	29.0	84.1	
Dissolved oxygen	mg/l	22	5.1	8.2	11.5	8.3	6.1	II
BOD (5)	mg/l	21	1.1	2.5	4.4	2.5	3.5	II
COD (Mn)	mg/l	14	2.0	3.4	5.1	3.3	4.5	I
COD (Cr)	mg/l	21	23.4	28.3	43.6	28.9	33.8	III
TOC	mg/l	5	3.0	5.0	7.0	5.3		
DOC	mg/l							
pH	-	22	7.3	8.0	8.4	8.0	8.4	II
							7.6	II
Alkalinity - total	mmol/l	11	2.8	3.2	4.0	3.1	3.6	
Ammonium (NH4-N)	mg/l	22	0.034	0.320	0.550	0.357	0.477	III
Nitrite (NO2-N)	mg/l	22	0.006	0.038	0.235	0.023	0.064	III
Nitrate (NO3-N)	mg/l	22	0.200	1.157	2.540	1.025	1.819	II
Total nitrogen	mg/l	20	0.88	2.06	3.56	1.93	3.18	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.037	0.067	0.031	0.066	II
Total phosphorus	mg/l	21	0.014	0.105	0.240	0.095	0.214	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	11.8	12.3	12.7			I
Conductivity	µS/cm	22	332	428	572	412	523	
Calcium (Ca++)	mg/l	12	48.0	54.0	70.0	54.4	58.7	
Sulphate (SO4--)	mg/l	11	19.6	28.3	40.1	29.4	31.2	
Magnesium (Mg++)	mg/l	12	11.9	18.7	29.2	17.0	26.6	
Potassium (K+)	mg/l	5	1.2	1.6	2.1	1.4		
Sodium (Na+)	mg/l	6	16.8	43.6	171.4	18.2		
Manganese (Mn)	mg/l	8	0.0030	0.0458	0.1500	0.0155		
Iron (Fe)	mg/l	8	0.400	0.694	0.950	0.685		
Chloride (Cl-)	mg/l	12	27.5	30.4	36.0	28.8	34.4	
Silicates (SiO2)	mg/l	23	1.93	5.73	9.17	5.75	8.60	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	8	1.40	7.28	15.00	4.00		II
Copper (Cu)	µg/l	8	1.40	8.88	42.00	3.75		IV
Chromium (Cr) - total	µg/l	8	1.20	3.68	14.00	2.00		II
Lead (Pb)	µg/l	8	1.60	2.75	4.40	2.50		II
Cadmium (Cd)	µg/l	8	0.07	1.28	7.20	0.21		V
Mercury (Hg)	µg/l	8	0.025	0.065	0.280	0.036		IV
Nickel (Ni)	µg/l	8	0.92	1.78	3.50	1.30		II
Arsenic (As)	µg/l	8	0.10	0.32	0.49	0.32		II
Aluminium (Al)	µg/l	2	35.50	38.40	41.30			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.068	0.255	0.044	0.106	
AOX	µg/l	6	10.00	13.47	21.00	12.55		II
Petroleum hydrocarbons	mg/l	12	0.015	0.035	0.114	0.027	0.056	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0100	0.0300	0.0400	0.0400		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	15	0.30	0.52	2.94	0.30	0.71	III
Carbon tetrachloride	µg/l	15	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	15	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	15	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.200	25.116	92.000	5.000		
Faecal coliforms (44 C)	1000CFU/100m	10	0.014	20.854	92.000	1.550		
Faecal streptococci	1000CFU/100m	10	0.013	0.387	1.600	0.070		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 698600 km2	2006
Distance from the mouth 375	Altitude: 4 m	RO04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2930.0	7370.2	15600.0	6120.0	13660.0	
Temperature	°C	21	1.0	15.3	28.0	18.0	25.0	
Suspended solids	mg/l	22	5.0	42.5	260.0	28.0	83.7	
Dissolved oxygen	mg/l	22	6.2	8.5	11.9	8.3	6.7	II
BOD (5)	mg/l	21	1.1	2.5	4.8	2.5	3.8	II
COD (Mn)	mg/l	14	2.0	3.5	5.0	3.4	4.5	I
COD (Cr)	mg/l	21	24.1	28.1	43.6	28.9	33.6	III
TOC	mg/l	5	3.4	5.6	7.0	5.7		
DOC	mg/l							
pH	-	22	7.3	8.0	8.4	8.0	8.3	II
							7.8	II
Alkalinity - total	mmol/l	11	2.8	3.2	4.0	3.1	3.5	
Ammonium (NH4-N)	mg/l	22	0.020	0.334	1.020	0.340	0.531	III
Nitrite (NO2-N)	mg/l	22	0.009	0.030	0.128	0.023	0.048	II
Nitrate (NO3-N)	mg/l	22	0.400	1.128	2.700	0.912	1.858	II
Total nitrogen	mg/l	21	0.89	2.02	3.42	2.05	3.04	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.037	0.092	0.031	0.067	II
Total phosphorus	mg/l	21	0.016	0.104	0.216	0.093	0.180	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	8.3	11.5	15.2			I
Conductivity	µS/cm	22	318	423	570	405	525	
Calcium (Ca++)	mg/l	12	43.2	52.0	70.0	51.3	56.6	
Sulphate (SO4--)	mg/l	11	20.8	28.2	35.8	28.0	33.9	
Magnesium (Mg++)	mg/l	12	11.9	18.9	27.0	18.9	24.0	
Potassium (K+)	mg/l	5	1.2	1.6	2.4	1.6		
Sodium (Na+)	mg/l	6	17.0	43.6	171.4	18.4		
Manganese (Mn)	mg/l	7	0.0030	0.0494	0.1500	0.0350		
Iron (Fe)	mg/l	7	0.390	0.733	1.000	0.720		
Chloride (Cl-)	mg/l	12	27.5	30.4	36.0	28.8	34.4	
Silicates (SiO2)	mg/l	23	1.71	5.73	9.15	5.75	8.31	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	1.80	8.11	16.00	5.20		II
Copper (Cu)	µg/l	7	1.40	9.03	40.00	4.30		III
Chromium (Cr) - total	µg/l	7	1.00	3.54	10.00	2.16		II
Lead (Pb)	µg/l	7	1.60	3.03	4.50	2.80		II
Cadmium (Cd)	µg/l	7	0.07	1.50	7.50	0.21		V
Mercury (Hg)	µg/l	7	0.025	0.069	0.280	0.035		IV
Nickel (Ni)	µg/l	7	1.00	1.74	3.80	1.20		II
Arsenic (As)	µg/l	7	0.10	0.32	0.55	0.30		II
Aluminium (Al)	µg/l	2	36.80	38.65	40.50			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.068	0.306	0.042	0.100	
AOX	µg/l	6	10.50	13.87	18.70	13.15		II
Petroleum hydrocarbons	mg/l	12	0.021	0.044	0.156	0.032	0.058	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0200	0.0367	0.0700	0.0400		V
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	15	0.30	0.31	0.39	0.30	0.36	II
Carbon tetrachloride	µg/l	15	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	15	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	15	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	0.200	19.503	92.000	6.200		
Faecal coliforms (44 C)	1000CFU/100m	10	0.078	24.254	92.000	0.825		
Faecal streptococci	1000CFU/100m	10	0.000	0.336	1.600	0.058		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 805700 km2	2006
Distance from the mouth 132	Altitude: 4 m	RO05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3110.0	8427.7	16500.0	6980.0	14800.0	
Temperature	°C	24	1.0	13.7	27.0	13.5	25.4	
Suspended solids	mg/l	24	6.0	49.0	311.0	31.0	85.9	
Dissolved oxygen	mg/l	24	6.9	9.5	14.6	9.0	7.2	I
BOD (5)	mg/l	22	0.8	2.2	4.2	2.4	2.9	I
COD (Mn)	mg/l	14	2.1	3.8	5.6	3.6	5.4	II
COD (Cr)	mg/l	23	19.4	29.3	35.7	29.1	33.9	III
TOC	mg/l	8	1.1	5.5	7.7	7.2		
DOC	mg/l	1	3.2	3.2	3.2			
pH	-	23	6.9	7.9	8.5	7.9	8.2	II
							7.5	II
Alkalinity - total	mmol/l	14	2.7	3.3	4.0	3.2	3.9	
Ammonium (NH4-N)	mg/l	24	0.020	0.266	0.545	0.275	0.494	III
Nitrite (NO2-N)	mg/l	24 <	0.005	0.038	0.101	0.032	0.067	III
Nitrate (NO3-N)	mg/l	24	0.500	1.304	2.930	1.100	1.940	II
Total nitrogen	mg/l	24	1.33	2.09	3.93	1.91	2.99	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.030	0.099	0.030	0.060	II
Total phosphorus	mg/l	22	0.011	0.165	1.050	0.114	0.270	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	8.3	12.1	15.9			I
Conductivity	µS/cm	24	362	447	610	421	531	
Calcium (Ca++)	mg/l	13	35.4	51.2	70.0	52.1	61.4	
Sulphate (SO4--)	mg/l	13	24.9	35.0	48.1	34.8	45.0	
Magnesium (Mg++)	mg/l	13	16.5	23.1	33.3	21.4	31.1	
Potassium (K+)	mg/l	6	1.4	1.8	2.4	1.8		
Sodium (Na+)	mg/l	6	16.8	19.5	24.4	19.0		
Manganese (Mn)	mg/l	7	0.0030	0.0154	0.0300	0.0200		
Iron (Fe)	mg/l	7	0.400	0.790	1.120	0.780		
Chloride (Cl-)	mg/l	18	27.5	31.5	41.3	30.5	34.5	
Silicates (SiO2)	mg/l	24	1.08	5.80	8.83	5.67	8.42	
Zinc (Zn), dissolved	µg/l	1	10.00	10.00	10.00			III
Copper (Cu), dissolved	µg/l	1	24.00	24.00	24.00			III
Chromium (Cr), total dissolved	µg/l	1	4.10	4.10	4.10			III
Lead (Pb), dissolved	µg/l	1	1.40	1.40	1.40			III
Cadmium (Cd), dissolved	µg/l	1	0.21	0.21	0.21			III
Mercury (Hg), dissolved	µg/l	1	0.072	0.072	0.072			II
Nickel (Ni), dissolved	µg/l	1	1.20	1.20	1.20			III
Arsenic (As), dissolved	µg/l	1	0.45	0.45	0.45			II
Aluminium (Al), dissolved	µg/l	1	52.20	52.20	52.20			
Zinc (Zn)	µg/l	7	1.00	8.40	25.00	4.00		II
Copper (Cu)	µg/l	7	1.00	4.59	12.00	2.40		II
Chromium (Cr) - total	µg/l	7	1.00	2.77	5.20	2.40		II
Lead (Pb)	µg/l	7	1.20	2.09	2.90	2.20		II
Cadmium (Cd)	µg/l	7	0.08	0.63	1.20	0.70		III
Mercury (Hg)	µg/l	7	0.025	0.050	0.160	0.031		III
Nickel (Ni)	µg/l	7	1.00	1.80	3.00	1.20		II
Arsenic (As)	µg/l	7	0.04	0.49	0.96	0.52		II
Aluminium (Al)	µg/l	1	49.60	49.60	49.60			
Phenol index	mg/l	13	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	13	0.025	0.110	0.580	0.074	0.107	
AOX	µg/l	7	14.60	21.56	28.40	21.00		II
Petroleum hydrocarbons	mg/l	12	0.015	0.027	0.056	0.025	0.035	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0100	0.0156	0.0400	0.0100		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	18	0.30	0.84	2.93	0.30	2.45	V
Carbon tetrachloride	µg/l	18	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	18	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	18	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.020	1.569	4.600	1.025	3.480	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	0.310	1.400	0.125	0.751	
Faecal streptococci	1000CFU/100m	12	0.000	0.042	0.220	0.020	0.104	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 805700 km2	2006
Distance from the mouth 132	Altitude: 4 m	RO05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3110.0	8427.7	16500.0	6980.0	14800.0	
Temperature	°C	24	1.0	13.7	27.0	13.5	25.4	
Suspended solids	mg/l	24	5.0	47.4	312.0	32.5	89.2	
Dissolved oxygen	mg/l	24	6.7	9.4	14.5	9.0	7.2	I
BOD (5)	mg/l	22	0.8	2.0	3.8	2.2	2.7	I
COD (Mn)	mg/l	14	2.2	3.8	6.0	3.5	5.5	II
COD (Cr)	mg/l	23	19.4	28.9	38.6	28.9	34.1	III
TOC	mg/l	8	1.6	5.0	9.0	5.1		
DOC	mg/l	1	3.9	3.9	3.9			
pH	-	23	7.1	7.9	8.5	8.0	8.1	II
							7.5	II
Alkalinity - total	mmol/l	14	2.7	3.4	4.1	3.2	4.0	
Ammonium (NH4-N)	mg/l	24	0.020	0.335	1.000	0.314	0.561	III
Nitrite (NO2-N)	mg/l	24 <	0.005	0.039	0.163	0.028	0.076	III
Nitrate (NO3-N)	mg/l	24	0.618	1.380	3.460	1.150	2.265	II
Total nitrogen	mg/l	24	1.35	2.17	4.71	1.92	3.00	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.040	0.368	0.022	0.061	II
Total phosphorus	mg/l	22	0.019	0.160	1.040	0.095	0.240	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	10.7	11.2	11.6			I
Conductivity	µS/cm	24	381	447	609	423	537	
Calcium (Ca++)	mg/l	13	39.3	51.5	70.0	48.1	65.2	
Sulphate (SO4--)	mg/l	13	24.4	35.1	49.8	36.2	44.8	
Magnesium (Mg++)	mg/l	13	14.2	21.8	35.7	21.1	28.8	
Potassium (K+)	mg/l	6	1.2	1.9	2.6	1.9		
Sodium (Na+)	mg/l	6	15.6	18.2	20.6	18.3		
Manganese (Mn)	mg/l	8	0.0030	0.0116	0.0280	0.0030		
Iron (Fe)	mg/l	8	0.440	0.792	1.400	0.790		
Chloride (Cl-)	mg/l	18	27.5	31.6	41.3	30.5	34.5	
Silicates (SiO2)	mg/l	24	1.24	5.75	8.92	5.51	8.07	
Zinc (Zn), dissolved	µg/l	1	15.00	15.00	15.00			III
Copper (Cu), dissolved	µg/l	1	29.00	29.00	29.00			III
Chromium (Cr), total dissolved	µg/l	1	4.40	4.40	4.40			III
Lead (Pb), dissolved	µg/l	1	1.30	1.30	1.30			III
Cadmium (Cd), dissolved	µg/l	1	0.19	0.19	0.19			III
Mercury (Hg), dissolved	µg/l	1	0.072	0.072	0.072			II
Nickel (Ni), dissolved	µg/l	1	1.70	1.70	1.70			III
Arsenic (As), dissolved	µg/l	1	0.30	0.30	0.30			II
Aluminium (Al), dissolved	µg/l	1	50.70	50.70	50.70			
Zinc (Zn)	µg/l	8	1.10	8.98	22.00	6.95		II
Copper (Cu)	µg/l	8	1.20	4.89	14.00	2.80		II
Chromium (Cr) - total	µg/l	8	1.20	2.90	5.40	2.55		II
Lead (Pb)	µg/l	8	1.30	2.06	3.60	2.00		II
Cadmium (Cd)	µg/l	8	0.07	0.94	3.10	0.84		IV
Mercury (Hg)	µg/l	8	0.025	0.043	0.100	0.031		II
Nickel (Ni)	µg/l	8	1.20	1.86	3.80	1.40		II
Arsenic (As)	µg/l	8	0.04	0.45	0.85	0.49		II
Aluminium (Al)	µg/l	1	49.00	49.00	49.00			
Phenol index	mg/l	13	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	13	0.025	0.081	0.103	0.092	0.102	
AOX	µg/l	7	12.20	22.21	30.00	22.60		II
Petroleum hydrocarbons	mg/l	12	0.016	0.029	0.059	0.027	0.034	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0100	0.0156	0.0200	0.0200		III
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	18	0.30	0.74	3.51	0.30	1.76	IV
Carbon tetrachloride	µg/l	18	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	18	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	18	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.020	3.012	16.000	0.815	8.630	
Faecal coliforms (44 C)	1000CFU/100m	12	0.020	1.062	9.200	0.155	2.025	
Faecal streptococci	1000CFU/100m	12	0.000	0.820	9.200	0.041	0.229	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 805700 km2	2006
Distance from the mouth 132	Altitude: 1 m	RO05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3110.0	8427.7	16500.0	6980.0	14800.0	
Temperature	°C	24	1.0	13.7	27.0	13.5	25.4	
Suspended solids	mg/l	24	5.0	47.7	281.0	34.0	85.7	
Dissolved oxygen	mg/l	24	3.7	9.3	14.3	9.0	7.0	II
BOD (5)	mg/l	22	0.8	2.1	3.8	2.2	2.9	I
COD (Mn)	mg/l	14	2.2	3.8	6.0	3.4	5.5	II
COD (Cr)	mg/l	23	19.4	29.1	38.6	28.9	35.7	III
TOC	mg/l	8	1.6	5.0	7.6	5.2		
DOC	mg/l	1	4.2	4.2	4.2			
pH	-	23	7.1	7.8	8.5	7.9	8.1	II
							7.5	II
Alkalinity - total	mmol/l	14	2.7	3.4	4.1	3.2	4.0	
Ammonium (NH4-N)	mg/l	24	0.020	0.322	0.888	0.341	0.515	III
Nitrite (NO2-N)	mg/l	24 <	0.005	0.040	0.148	0.028	0.078	III
Nitrate (NO3-N)	mg/l	24	0.601	1.292	3.630	1.125	1.854	II
Total nitrogen	mg/l	24	1.28	2.13	5.60	1.81	2.85	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.005	0.029	0.123	0.020	0.053	II
Total phosphorus	mg/l	22	0.017	0.125	0.348	0.105	0.243	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	5.9	10.2	14.5			I
Conductivity	µS/cm	24	381	447	588	423	540	
Calcium (Ca++)	mg/l	13	39.3	50.6	70.0	50.4	61.4	
Sulphate (SO4--)	mg/l	13	23.9	34.2	47.3	33.9	42.2	
Magnesium (Mg++)	mg/l	13	16.5	23.6	31.6	23.7	30.9	
Potassium (K+)	mg/l	6	1.4	1.8	2.4	1.9		
Sodium (Na+)	mg/l	6	17.0	19.6	24.0	19.3		
Manganese (Mn)	mg/l	7	0.0030	0.0164	0.0350	0.0200		
Iron (Fe)	mg/l	7	0.410	0.767	1.250	0.740		
Chloride (Cl-)	mg/l	18	27.5	32.0	41.3	30.5	34.5	
Silicates (SiO2)	mg/l	24	1.08	5.75	8.92	5.82	8.23	
Zinc (Zn), dissolved	µg/l	1	12.00	12.00	12.00			III
Copper (Cu), dissolved	µg/l	1	25.00	25.00	25.00			III
Chromium (Cr), total dissolved	µg/l	1	4.60	4.60	4.60			III
Lead (Pb), dissolved	µg/l	1	1.20	1.20	1.20			III
Cadmium (Cd), dissolved	µg/l	1	0.15	0.15	0.15			III
Mercury (Hg), dissolved	µg/l	1	0.070	0.070	0.070			II
Nickel (Ni), dissolved	µg/l	1	1.50	1.50	1.50			III
Arsenic (As), dissolved	µg/l	1	0.24	0.24	0.24			II
Aluminium (Al), dissolved	µg/l	1	51.10	51.10	51.10			
Zinc (Zn)	µg/l	7	1.00	8.63	22.00	8.30		II
Copper (Cu)	µg/l	7	1.10	4.16	9.80	2.10		II
Chromium (Cr) - total	µg/l	7	1.10	2.91	5.20	2.10		II
Lead (Pb)	µg/l	7	1.30	1.94	3.00	1.80		II
Cadmium (Cd)	µg/l	7	0.08	0.58	1.00	0.72		II
Mercury (Hg)	µg/l	7	0.025	0.043	0.120	0.030		III
Nickel (Ni)	µg/l	7	1.00	1.84	4.00	1.40		II
Arsenic (As)	µg/l	7	0.08	0.46	0.88	0.42		II
Aluminium (Al)	µg/l	1	50.80	50.80	50.80			
Phenol index	mg/l	13	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	13	0.025	0.085	0.140	0.088	0.120	
AOX	µg/l	7	14.00	22.40	31.00	24.10		II
Petroleum hydrocarbons	mg/l	12	0.014	0.032	0.054	0.031	0.048	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0123	0.0200	0.0100		III
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	18	0.30	0.72	6.97	0.30	0.61	III
Carbon tetrachloride	µg/l	18	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	18	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	18	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.000	2.512	9.200	0.895	8.630	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	0.319	1.700	0.170	0.679	
Faecal streptococci	1000CFU/100m	12	0.002	0.248	2.400	0.019	0.322	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 18	Altitude: 1 m	RO06
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	1480.0	4131.6	8640.0	3420.0	7178.0	
Temperature	°C	11	3.0	14.3	26.0	14.5	25.0	
Suspended solids	mg/l	11	17.0	53.3	89.0	48.0	87.0	
Dissolved oxygen	mg/l	11	7.5	9.1	11.8	8.1	7.7	I
BOD (5)	mg/l	11	0.7	1.9	3.1	1.5	2.9	I
COD (Mn)	mg/l	11	2.1	4.0	5.1	3.9	4.9	I
COD (Cr)	mg/l	11	19.4	29.6	33.8	29.1	33.8	III
TOC	mg/l	5	2.2	5.1	11.4	4.0		
DOC	mg/l	1	5.7	5.7	5.7			
pH	-	11	7.3	7.8	8.4	7.7	8.3	II
							7.3	II
Alkalinity - total	mmol/l	11	2.7	3.2	3.6	3.2	3.5	
Ammonium (NH4-N)	mg/l	11	0.050	0.267	0.598	0.297	0.434	III
Nitrite (NO2-N)	mg/l	11	0.011	0.038	0.101	0.032	0.094	III
Nitrate (NO3-N)	mg/l	11	0.379	1.220	2.840	1.080	2.240	II
Total nitrogen	mg/l	11	1.19	1.99	3.90	1.50	3.10	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.005	0.034	0.080	0.036	0.059	II
Total phosphorus	mg/l	10	0.060	0.152	0.297	0.139		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	8.3	10.7	13.2			I
Conductivity	µS/cm	11	383	449	567	420	489	
Calcium (Ca++)	mg/l	11	39.3	50.3	62.2	52.1	58.4	
Sulphate (SO4--)	mg/l	11	24.8	33.9	48.7	31.6	41.1	
Magnesium (Mg++)	mg/l	11	14.1	21.3	33.3	18.9	26.8	
Potassium (K+)	mg/l	5	1.6	2.0	2.4	2.0		
Sodium (Na+)	mg/l	5	17.4	21.0	28.4	19.4		
Manganese (Mn)	mg/l	6	0.0030	0.0168	0.0460	0.0120		
Iron (Fe)	mg/l	6	0.470	0.883	1.200	1.005		
Chloride (Cl-)	mg/l	11	21.6	30.1	41.4	29.1	34.4	
Silicates (SiO2)	mg/l	11	1.09	4.73	8.15	4.64	6.63	
Zinc (Zn), dissolved	µg/l	1	10.00	10.00	10.00			III
Copper (Cu), dissolved	µg/l	1	8.80	8.80	8.80			III
Chromium (Cr), total dissolved	µg/l	1	4.30	4.30	4.30			III
Lead (Pb), dissolved	µg/l	1	4.50	4.50	4.50			III
Cadmium (Cd), dissolved	µg/l	1	3.80	3.80	3.80			III
Mercury (Hg), dissolved	µg/l	1	0.042	0.042	0.042			II
Nickel (Ni), dissolved	µg/l	1	1.50	1.50	1.50			III
Arsenic (As), dissolved	µg/l	1	0.57	0.57	0.57			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	6	2.60	8.38	22.50	4.75		II
Copper (Cu)	µg/l	6	2.00	7.57	20.20	3.40		III
Chromium (Cr) - total	µg/l	6	1.20	2.82	5.00	2.70		II
Lead (Pb)	µg/l	6	1.80	2.33	4.00	2.00		II
Cadmium (Cd)	µg/l	6	0.07	0.76	1.40	0.91		III
Mercury (Hg)	µg/l	6	0.026	0.066	0.150	0.043		III
Nickel (Ni)	µg/l	6	1.00	2.03	3.10	1.90		II
Arsenic (As)	µg/l	6	0.08	0.44	0.93	0.40		II
Aluminium (Al)	µg/l	2	31.10	32.00	32.90			
Phenol index	mg/l	11	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	11	0.080	0.101	0.126	0.101	0.122	
AOX	µg/l	6	16.80	18.48	20.80	18.20		II
Petroleum hydrocarbons	mg/l	11	0.019	0.026	0.043	0.024	0.032	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0146	0.0400	0.0100		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.51	1.51	0.30		IV
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.070	4.342	28.000	1.700	5.400	
Faecal coliforms (44 C)	1000CFU/100m	11	0.020	2.946	28.000	0.200	1.700	
Faecal streptococci	1000CFU/100m	11	0.000	0.104	0.920	0.014	0.078	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 18	Altitude: 1 m	RO06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	1480.0	4131.6	8640.0	3420.0	7178.0	
Temperature	°C	11	3.0	14.3	26.0	14.5	25.0	
Suspended solids	mg/l	11	10.0	57.6	124.0	64.0	122.0	
Dissolved oxygen	mg/l	11	7.6	9.1	11.7	8.1	7.8	I
BOD (5)	mg/l	11	0.7	1.9	2.9	2.2	2.8	I
COD (Mn)	mg/l	11	2.1	4.1	5.6	4.1	5.4	II
COD (Cr)	mg/l	11	19.4	29.0	38.6	29.1	33.8	III
TOC	mg/l	5	1.6	4.5	11.2	3.5		
DOC	mg/l	1	4.7	4.7	4.7			
pH	-	11	7.3	7.8	8.4	7.9	8.2	II
							7.4	II
Alkalinity - total	mmol/l	11	2.8	3.2	3.8	3.2	3.5	
Ammonium (NH4-N)	mg/l	11	0.032	0.238	0.438	0.190	0.375	III
Nitrite (NO2-N)	mg/l	11	0.009	0.027	0.060	0.025	0.038	II
Nitrate (NO3-N)	mg/l	11	0.364	1.211	3.060	1.090	2.150	II
Total nitrogen	mg/l	11	1.27	1.90	4.06	1.51	2.88	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.005	0.031	0.081	0.032	0.043	I
Total phosphorus	mg/l	10	0.050	0.145	0.237	0.145		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	12.8	14.1	15.4			I
Conductivity	µS/cm	11	378	446	566	422	489	
Calcium (Ca++)	mg/l	11	43.2	51.0	62.2	52.1	58.4	
Sulphate (SO4--)	mg/l	11	24.0	32.8	49.6	29.8	40.8	
Magnesium (Mg++)	mg/l	11	14.1	19.4	26.7	18.9	26.3	
Potassium (K+)	mg/l	5	1.4	2.0	2.6	2.0		
Sodium (Na+)	mg/l	5	17.0	20.4	28.6	18.8		
Manganese (Mn)	mg/l	7	0.0030	0.0094	0.0480	0.0030		
Iron (Fe)	mg/l	7	0.410	0.783	0.980	0.920		
Chloride (Cl-)	mg/l	11	21.6	30.1	41.4	29.1	34.4	
Silicates (SiO2)	mg/l	11	1.11	4.48	8.34	3.98	6.65	
Zinc (Zn), dissolved	µg/l	1	8.70	8.70	8.70			III
Copper (Cu), dissolved	µg/l	1	10.00	10.00	10.00			III
Chromium (Cr), total dissolved	µg/l	1	4.70	4.70	4.70			III
Lead (Pb), dissolved	µg/l	1	3.90	3.90	3.90			III
Cadmium (Cd), dissolved	µg/l	1	5.00	5.00	5.00			III
Mercury (Hg), dissolved	µg/l	1	0.039	0.039	0.039			II
Nickel (Ni), dissolved	µg/l	1	1.80	1.80	1.80			III
Arsenic (As), dissolved	µg/l	1	0.42	0.42	0.42			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	2.80	10.53	28.60	7.50		II
Copper (Cu)	µg/l	7	1.10	8.37	21.00	3.80		III
Chromium (Cr) - total	µg/l	7	1.20	2.80	5.10	2.50		II
Lead (Pb)	µg/l	7	0.92	2.46	3.80	2.40		II
Cadmium (Cd)	µg/l	7	0.08	1.18	4.20	0.93		IV
Mercury (Hg)	µg/l	7	0.025	0.061	0.160	0.045		III
Nickel (Ni)	µg/l	7	0.95	1.86	3.40	1.70		II
Arsenic (As)	µg/l	7	0.07	0.46	0.98	0.42		II
Aluminium (Al)	µg/l	2	32.00	32.50	33.00			
Phenol index	mg/l	11	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	11	0.083	0.104	0.121	0.104	0.115	
AOX	µg/l	6	16.20	18.43	21.40	18.35		II
Petroleum hydrocarbons	mg/l	11	0.018	0.029	0.047	0.031	0.038	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0100	0.0178	0.0500	0.0100		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	11	0.30	0.37	1.06	0.30	0.30	II
Carbon tetrachloride	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	11	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.078	1.866	5.600	0.460	5.400	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.919	5.600	0.110	1.700	
Faecal streptococci	1000CFU/100m	11	0.000	0.045	0.350	0.013	0.046	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 18	Altitude: 1 m	RO06
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	1480.0	4131.6	8640.0	3420.0	7178.0	
Temperature	°C	11	3.0	14.3	26.0	14.5	25.0	
Suspended solids	mg/l	11	12.0	57.5	142.0	56.0	93.0	
Dissolved oxygen	mg/l	11	7.4	9.1	11.8	8.1	7.6	I
BOD (5)	mg/l	11	0.8	1.9	3.0	1.9	2.8	I
COD (Mn)	mg/l	11	2.2	4.2	5.7	4.2	5.4	II
COD (Cr)	mg/l	11	24.2	29.9	33.9	28.9	33.8	III
TOC	mg/l	5	1.8	5.0	11.0	4.1		
DOC	mg/l	1	5.1	5.1	5.1			
pH	-	11	7.3	7.9	8.4	7.9	8.3	II
							7.5	II
Alkalinity - total	mmol/l	11	2.8	3.2	3.7	3.2	3.6	
Ammonium (NH4-N)	mg/l	11	0.020	0.211	0.470	0.131	0.447	III
Nitrite (NO2-N)	mg/l	11	0.018	0.034	0.086	0.024	0.053	II
Nitrate (NO3-N)	mg/l	11	0.351	1.122	3.140	0.800	2.310	II
Total nitrogen	mg/l	11	1.12	1.78	3.99	1.38	3.15	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.005	0.040	0.105	0.041	0.068	II
Total phosphorus	mg/l	10	0.068	0.142	0.224	0.131		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	7.1	10.9	14.7			I
Conductivity	µS/cm	11	390	448	569	418	491	
Calcium (Ca++)	mg/l	11	43.2	50.6	62.2	52.1	55.0	
Sulphate (SO4--)	mg/l	11	24.0	33.8	47.7	32.7	40.9	
Magnesium (Mg++)	mg/l	11	14.1	20.3	31.6	17.6	28.2	
Potassium (K+)	mg/l	5	1.8	2.0	2.4	2.0		
Sodium (Na+)	mg/l	5	17.6	20.7	28.2	19.2		
Manganese (Mn)	mg/l	6	0.0030	0.0138	0.0430	0.0030		
Iron (Fe)	mg/l	6	0.400	0.843	1.150	0.955		
Chloride (Cl-)	mg/l	11	21.6	30.1	41.4	29.1	34.4	
Silicates (SiO2)	mg/l	11	1.07	4.52	8.24	4.47	6.65	
Zinc (Zn), dissolved	µg/l	1	12.00	12.00	12.00			III
Copper (Cu), dissolved	µg/l	1	12.00	12.00	12.00			III
Chromium (Cr), total dissolved	µg/l	1	5.00	5.00	5.00			III
Lead (Pb), dissolved	µg/l	1	4.20	4.20	4.20			III
Cadmium (Cd), dissolved	µg/l	1	4.20	4.20	4.20			III
Mercury (Hg), dissolved	µg/l	1	0.043	0.043	0.043			II
Nickel (Ni), dissolved	µg/l	1	1.20	1.20	1.20			III
Arsenic (As), dissolved	µg/l	1	0.48	0.48	0.48			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	6	3.20	10.83	29.30	6.15		II
Copper (Cu)	µg/l	6	1.40	8.18	20.00	3.85		II
Chromium (Cr) - total	µg/l	6	2.10	2.85	4.80	2.50		II
Lead (Pb)	µg/l	6	1.20	2.42	3.60	2.45		II
Cadmium (Cd)	µg/l	6	0.10	0.70	1.01	0.98		III
Mercury (Hg)	µg/l	6	0.028	0.070	0.180	0.038		III
Nickel (Ni)	µg/l	6	0.84	2.07	3.50	1.90		II
Arsenic (As)	µg/l	6	0.05	0.44	0.95	0.44		II
Aluminium (Al)	µg/l	2	34.40	35.40	36.40			
Phenol index	mg/l	11	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	11	0.089	0.103	0.132	0.099	0.127	
AOX	µg/l	6	14.40	18.50	22.00	18.45		II
Petroleum hydrocarbons	mg/l	11	0.017	0.028	0.039	0.029	0.039	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0422	0.0600	0.0400		II
pp-DDT	µg/l	9	0.0100	0.0178	0.0500	0.0100		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	11	0.30	0.72	4.90	0.30	0.30	II
Carbon tetrachloride	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	11	0.30	0.31	0.39	0.30	0.30	II
Tetrachloroethylene	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.078	10.619	92.000	1.100	16.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.020	10.322	92.000	0.200	16.000	
Faecal streptococci	1000CFU/100m	11	0.000	0.083	0.540	0.018	0.220	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 0	Altitude: 1 m	RO07
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	600.0	1594.3	3420.0	1280.0	2760.0	
Temperature	°C	12	2.0	13.3	26.0	12.5	23.7	
Suspended solids	mg/l	12	11.0	46.5	107.0	42.0	73.0	
Dissolved oxygen	mg/l	12	6.3	9.0	12.9	8.7	6.6	II
BOD (5)	mg/l	12	< 0.5	2.4	4.2	2.5	3.8	II
COD (Mn)	mg/l	12	2.9	3.9	5.1	3.9	4.9	I
COD (Cr)	mg/l	12	20.1	29.8	34.0	30.9	33.9	III
TOC	mg/l	5	2.8	6.2	10.6	5.6		
DOC	mg/l	1	4.3	4.3	4.3			
pH	-	12	6.9	7.6	8.1	7.6	8.1	II
							7.3	II
Alkalinity - total	mmol/l	12	2.7	3.3	4.1	3.2	3.8	
Ammonium (NH4-N)	mg/l	12	0.020	0.282	0.624	0.252	0.469	III
Nitrite (NO2-N)	mg/l	12	0.006	0.029	0.071	0.020	0.058	II
Nitrate (NO3-N)	mg/l	12	0.447	1.054	2.440	0.896	2.148	II
Total nitrogen	mg/l	12	1.17	1.75	3.38	1.39	3.15	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.036	0.072	0.038	0.055	II
Total phosphorus	mg/l	11	0.061	0.125	0.270	0.108	0.202	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	3.6	11.9	20.3			I
Conductivity	µS/cm	12	380	446	561	420	525	
Calcium (Ca++)	mg/l	12	39.3	50.1	62.2	48.3	59.9	
Sulphate (SO4--)	mg/l	12	23.9	34.6	49.8	34.1	46.1	
Magnesium (Mg++)	mg/l	12	13.0	22.0	26.8	21.6	26.6	
Potassium (K+)	mg/l	6	1.4	1.9	2.4	1.9		
Sodium (Na+)	mg/l	6	16.6	21.6	28.8	19.5		
Manganese (Mn)	mg/l	7	0.0030	0.0177	0.0350	0.0200		
Iron (Fe)	mg/l	7	0.460	0.741	0.960	0.830		
Chloride (Cl-)	mg/l	12	27.5	31.1	41.3	29.8	34.5	
Silicates (SiO2)	mg/l	12	2.61	4.87	8.07	4.93	6.69	
Zinc (Zn), dissolved	µg/l	1	16.80	16.80	16.80			III
Copper (Cu), dissolved	µg/l	1	5.80	5.80	5.80			II
Chromium (Cr), total dissolved	µg/l	1	1.60	1.60	1.60			II
Lead (Pb), dissolved	µg/l	1	2.10	2.10	2.10			II
Cadmium (Cd), dissolved	µg/l	1	0.41	0.41	0.41			II
Mercury (Hg), dissolved	µg/l	1	0.062	0.062	0.062			II
Nickel (Ni), dissolved	µg/l	1	1.20	1.20	1.20			II
Arsenic (As), dissolved	µg/l	1	0.40	0.40	0.40			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	2.00	10.77	30.60	7.80		II
Copper (Cu)	µg/l	7	1.80	6.91	20.00	3.60		II
Chromium (Cr) - total	µg/l	7	1.20	3.09	9.40	2.10		II
Lead (Pb)	µg/l	7	0.96	2.31	4.60	2.00		II
Cadmium (Cd)	µg/l	7	0.04	0.76	2.00	0.68		III
Mercury (Hg)	µg/l	7	0.029	0.061	0.170	0.041		III
Nickel (Ni)	µg/l	7	1.00	1.79	3.00	1.40		II
Arsenic (As)	µg/l	7	0.10	0.43	0.86	0.45		II
Aluminium (Al)	µg/l	2	38.70	42.95	47.20			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.088	0.115	0.100	0.112	
AOX	µg/l	7	15.80	19.77	23.00	20.00		II
Petroleum hydrocarbons	mg/l	12	0.010	0.023	0.039	0.023	0.034	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0422	0.0600	0.0400		II
pp-DDT	µg/l	9	0.0055	0.0128	0.0300	0.0100		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	11	0.30	0.31	0.42	0.30	0.30	II
Carbon tetrachloride	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	11	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.045	10.754	92.000	1.750	15.100	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	1.136	7.000	0.230	2.730	
Faecal streptococci	1000CFU/100m	12	0.000	0.089	0.360	0.010	0.332	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 0	Altitude: 1 m	RO07
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	600.0	1594.3	3420.0	1280.0	2760.0	
Temperature	°C	12	2.0	13.3	26.0	12.5	23.7	
Suspended solids	mg/l	12	9.0	58.8	178.0	43.0	113.8	
Dissolved oxygen	mg/l	12	6.1	8.9	12.8	8.6	6.9	II
BOD (5)	mg/l	12	< 0.5	2.4	3.8	2.5	3.7	II
COD (Mn)	mg/l	12	2.9	3.9	5.2	3.8	4.9	I
COD (Cr)	mg/l	12	18.0	28.7	35.4	28.9	34.0	III
TOC	mg/l	5	1.9	6.1	10.6	4.7		
DOC	mg/l	1	3.1	3.1	3.1			
pH	-	12	7.3	7.8	8.2	7.7	8.2	II
							7.4	II
Alkalinity - total	mmol/l	12	2.7	3.3	4.1	3.2	3.7	
Ammonium (NH4-N)	mg/l	12	0.020	0.294	0.777	0.281	0.518	III
Nitrite (NO2-N)	mg/l	12	< 0.005	0.066	0.218	0.019	0.191	II
Nitrate (NO3-N)	mg/l	12	0.511	1.122	2.480	0.933	2.315	II
Total nitrogen	mg/l	12	1.14	1.85	3.43	1.52	3.07	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.044	0.089	0.037	0.083	II
Total phosphorus	mg/l	11	0.047	0.137	0.320	0.117	0.214	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	9.5	10.8	12.1			I
Conductivity	µS/cm	12	360	437	559	419	484	
Calcium (Ca++)	mg/l	12	30.4	48.6	62.2	49.3	59.6	
Sulphate (SO4--)	mg/l	12	25.0	32.8	43.2	31.6	40.6	
Magnesium (Mg++)	mg/l	12	14.1	22.6	36.8	21.5	26.7	
Potassium (K+)	mg/l	6	1.2	1.9	2.4	2.0		
Sodium (Na+)	mg/l	6	17.0	20.2	27.4	19.7		
Manganese (Mn)	mg/l	8	0.0030	0.0110	0.0440	0.0030		
Iron (Fe)	mg/l	8	0.460	0.669	0.980	0.565		
Chloride (Cl-)	mg/l	12	21.6	29.9	34.5	29.8	34.5	
Silicates (SiO2)	mg/l	12	2.62	4.90	7.88	5.12	7.03	
Zinc (Zn), dissolved	µg/l	1	13.00	13.00	13.00			III
Copper (Cu), dissolved	µg/l	1	5.50	5.50	5.50			II
Chromium (Cr), total dissolved	µg/l	1	0.97	0.97	0.97			II
Lead (Pb), dissolved	µg/l	1	2.00	2.00	2.00			II
Cadmium (Cd), dissolved	µg/l	1	0.44	0.44	0.44			II
Mercury (Hg), dissolved	µg/l	1	0.059	0.059	0.059			II
Nickel (Ni), dissolved	µg/l	1	1.40	1.40	1.40			II
Arsenic (As), dissolved	µg/l	1	0.39	0.39	0.39			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	8	1.30	7.85	22.00	4.80		II
Copper (Cu)	µg/l	8	1.20	5.95	18.50	4.70		II
Chromium (Cr) - total	µg/l	8	0.97	3.11	10.00	2.45		II
Lead (Pb)	µg/l	8	1.02	2.08	3.80	1.90		II
Cadmium (Cd)	µg/l	8	0.04	0.59	1.40	0.56		III
Mercury (Hg)	µg/l	8	0.025	0.053	0.140	0.046		III
Nickel (Ni)	µg/l	8	0.86	1.67	3.50	1.40		II
Arsenic (As)	µg/l	8	0.09	0.49	0.93	0.49		II
Aluminium (Al)	µg/l	2	44.20	45.50	46.80			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.091	0.132	0.102	0.109	
AOX	µg/l	7	15.10	20.64	24.20	20.30		II
Petroleum hydrocarbons	mg/l	12	0.014	0.022	0.034	0.022	0.029	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0157	0.0300	0.0200		IV
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	11	0.30	0.54	2.92	0.30	0.30	II
Carbon tetrachloride	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	11	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.000	6.872	35.000	1.500	15.700	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	0.996	7.000	0.250	1.590	
Faecal streptococci	1000CFU/100m	12	0.000	0.100	0.540	0.005	0.338	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 0	Altitude: 1 m	RO07
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	600.0	1594.3	3420.0	1280.0	2760.0	
Temperature	°C	12	2.0	13.3	26.0	12.5	23.7	
Suspended solids	mg/l	12	11.0	47.4	110.0	40.0	87.7	
Dissolved oxygen	mg/l	12	6.1	8.9	12.7	8.6	6.8	II
BOD (5)	mg/l	12	< 0.5	2.4	4.2	2.5	3.8	II
COD (Mn)	mg/l	12	2.6	3.9	5.4	3.9	5.1	II
COD (Cr)	mg/l	12	19.5	29.4	38.2	29.0	34.0	III
TOC	mg/l	5	1.7	5.9	10.5	5.5		
DOC	mg/l	1	3.7	3.7	3.7			
pH	-	12	7.3	7.7	8.1	7.6	8.0	II
							7.4	II
Alkalinity - total	mmol/l	12	2.7	3.3	4.0	3.2	3.6	
Ammonium (NH4-N)	mg/l	12	0.020	0.337	1.030	0.295	0.558	III
Nitrite (NO2-N)	mg/l	12	< 0.005	0.068	0.273	0.030	0.199	II
Nitrate (NO3-N)	mg/l	12	0.464	1.128	2.550	0.855	2.351	II
Total nitrogen	mg/l	12	1.25	1.97	3.70	1.57	3.34	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.036	0.085	0.034	0.074	II
Total phosphorus	mg/l	11	0.065	0.139	0.318	0.111	0.203	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	8.3	12.7	17.2			I
Conductivity	µS/cm	12	360	441	560	419	488	
Calcium (Ca++)	mg/l	12	39.3	49.4	64.1	47.4	61.8	
Sulphate (SO4--)	mg/l	12	25.0	32.8	47.7	30.0	40.7	
Magnesium (Mg++)	mg/l	12	14.5	20.8	26.3	20.3	25.8	
Potassium (K+)	mg/l	6	1.4	1.9	2.5	2.0		
Sodium (Na+)	mg/l	6	17.0	20.6	28.0	19.9		
Manganese (Mn)	mg/l	7	0.0030	0.0121	0.0500	0.0030		
Iron (Fe)	mg/l	7	0.480	0.780	1.440	0.650		
Chloride (Cl-)	mg/l	12	21.6	30.5	41.3	29.8	34.5	
Silicates (SiO2)	mg/l	12	2.44	4.88	8.24	4.82	7.13	
Zinc (Zn), dissolved	µg/l	1	15.00	15.00	15.00			III
Copper (Cu), dissolved	µg/l	1	6.20	6.20	6.20			III
Chromium (Cr), total dissolved	µg/l	1	1.40	1.40	1.40			II
Lead (Pb), dissolved	µg/l	1	2.40	2.40	2.40			III
Cadmium (Cd), dissolved	µg/l	1	0.52	0.52	0.52			III
Mercury (Hg), dissolved	µg/l	1	0.063	0.063	0.063			II
Nickel (Ni), dissolved	µg/l	1	1.50	1.50	1.50			III
Arsenic (As), dissolved	µg/l	1	0.41	0.41	0.41			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	2.10	10.07	28.00	8.20		II
Copper (Cu)	µg/l	7	1.60	7.17	22.50	4.40		III
Chromium (Cr) - total	µg/l	7	1.00	3.44	9.60	3.00		II
Lead (Pb)	µg/l	7	1.10	2.06	3.00	2.10		II
Cadmium (Cd)	µg/l	7	0.04	0.67	1.50	0.85		III
Mercury (Hg)	µg/l	7	0.025	0.060	0.220	0.035		IV
Nickel (Ni)	µg/l	7	1.00	1.74	3.70	1.50		II
Arsenic (As)	µg/l	7	0.08	0.47	0.84	0.50		II
Aluminium (Al)	µg/l	2	45.10	46.05	47.00			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.099	0.203	0.104	0.125	
AOX	µg/l	7	14.40	20.29	25.00	20.60		II
Petroleum hydrocarbons	mg/l	12	0.017	0.024	0.038	0.023	0.032	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0113	0.0200	0.0100		III
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	11	0.30	0.53	2.82	0.30	0.32	II
Carbon tetrachloride	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	11	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.040	16.016	160.000	2.000	15.650	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	8.947	92.000	0.215	11.792	
Faecal streptococci	1000CFU/100m	12	0.000	0.093	0.540	0.008	0.328	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 0	Altitude: 1 m	RO08
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	947.0	2043.9	3610.0	1880.0	3140.0	
Temperature	°C	12	2.5	13.2	26.0	12.8	22.4	
Suspended solids	mg/l	12	16.0	51.6	103.0	39.5	95.8	
Dissolved oxygen	mg/l	12	6.5	9.2	12.0	8.9	7.5	I
BOD (5)	mg/l	12	0.6	2.4	4.4	2.4	4.1	II
COD (Mn)	mg/l	12	2.1	4.0	5.7	4.1	5.0	II
COD (Cr)	mg/l	12	20.4	31.1	38.9	31.7	34.5	III
TOC	mg/l	5	1.9	6.1	10.6	4.7		
DOC	mg/l	1	7.6	7.6	7.6			
pH	-	12	7.1	7.5	8.0	7.6	7.8	II
							7.2	II
Alkalinity - total	mmol/l	12	2.7	3.3	4.1	3.2	3.8	
Ammonium (NH4-N)	mg/l	12	0.022	0.227	0.517	0.197	0.469	III
Nitrite (NO2-N)	mg/l	12	0.012	0.036	0.114	0.022	0.056	II
Nitrate (NO3-N)	mg/l	12	0.620	1.170	2.980	0.900	2.116	II
Total nitrogen	mg/l	12	1.12	1.82	3.92	1.46	3.03	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.036	0.093	0.029	0.075	II
Total phosphorus	mg/l	11	0.058	0.153	0.281	0.152	0.241	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	5.9	12.6	19.3			I
Conductivity	µS/cm	12	370	464	600	432	598	
Calcium (Ca++)	mg/l	12	36.1	48.4	58.4	49.1	55.9	
Sulphate (SO4--)	mg/l	12	24.2	35.3	41.2	38.4	41.1	
Magnesium (Mg++)	mg/l	12	11.9	23.9	38.9	25.3	32.9	
Potassium (K+)	mg/l	5	1.2	1.9	2.4	2.0		
Sodium (Na+)	mg/l	5	17.4	20.5	29.4	18.6		
Manganese (Mn)	mg/l	7	0.0030	0.0090	0.0240	0.0030		
Iron (Fe)	mg/l	7	0.480	0.723	0.950	0.750		
Chloride (Cl-)	mg/l	12	21.6	38.7	76.3	32.5	72.8	
Silicates (SiO2)	mg/l	11	0.82	4.24	8.25	3.58	6.60	
Zinc (Zn), dissolved	µg/l	1	20.00	20.00	20.00			III
Copper (Cu), dissolved	µg/l	1	15.40	15.40	15.40			III
Chromium (Cr), total dissolved	µg/l	1	20.00	20.00	20.00			III
Lead (Pb), dissolved	µg/l	1	7.00	7.00	7.00			III
Cadmium (Cd), dissolved	µg/l	1	0.17	0.17	0.17			III
Mercury (Hg), dissolved	µg/l	1	0.100	0.100	0.100			II
Nickel (Ni), dissolved	µg/l	1	2.60	2.60	2.60			III
Arsenic (As), dissolved	µg/l	1	0.23	0.23	0.23			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	2.40	11.43	35.00	5.80		II
Copper (Cu)	µg/l	7	1.00	3.83	8.10	2.40		II
Chromium (Cr) - total	µg/l	7	1.20	2.49	5.60	1.80		II
Lead (Pb)	µg/l	7	0.90	2.20	5.00	1.80		II
Cadmium (Cd)	µg/l	7	0.04	0.55	1.10	0.74		III
Mercury (Hg)	µg/l	7	0.025	0.051	0.110	0.033		III
Nickel (Ni)	µg/l	7	1.20	1.76	2.80	1.40		II
Arsenic (As)	µg/l	7	0.10	0.42	0.84	0.40		II
Aluminium (Al)	µg/l	2	47.20	49.20	51.20			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.080	0.123	0.086	0.110	
AOX	µg/l	7	10.50	14.60	17.80	15.20		II
Petroleum hydrocarbons	mg/l	12	0.012	0.025	0.043	0.024	0.037	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0091	0.0200	0.0100		III
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.51	2.07	0.30		V
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.330	4.184	16.000	1.950	15.100	
Faecal coliforms (44 C)	1000CFU/100m	12	0.033	0.983	7.000	0.330	1.535	
Faecal streptococci	1000CFU/100m	12	0.000	0.137	0.920	0.022	0.491	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 0	Altitude: 1 m	RO08
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	947.0	2043.9	3610.0	1880.0	3140.0	
Temperature	°C	12	2.5	13.2	26.0	12.8	22.4	
Suspended solids	mg/l	12	12.0	63.0	145.0	49.5	108.4	
Dissolved oxygen	mg/l	12	6.6	9.1	12.0	8.8	7.4	I
BOD (5)	mg/l	12	0.6	2.3	4.2	2.4	4.0	II
COD (Mn)	mg/l	12	2.1	3.9	6.0	3.9	4.6	I
COD (Cr)	mg/l	12	20.5	30.1	38.9	29.2	33.9	III
TOC	mg/l	5	1.7	5.9	10.5	5.5		
DOC	mg/l	1	7.8	7.8	7.8			
pH	-	12	7.0	7.7	8.2	7.7	8.1	II
							7.3	II
Alkalinity - total	mmol/l	12	2.7	3.3	4.2	3.3	4.0	
Ammonium (NH4-N)	mg/l	12	0.020	0.219	0.434	0.178	0.397	III
Nitrite (NO2-N)	mg/l	12	0.012	0.029	0.069	0.023	0.043	II
Nitrate (NO3-N)	mg/l	12	0.700	1.447	2.960	1.070	2.650	II
Total nitrogen	mg/l	11	1.16	1.94	3.79	1.46	3.69	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.042	0.076	0.051	0.070	II
Total phosphorus	mg/l	11	0.064	0.154	0.280	0.132	0.249	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	8.3	9.5	10.7			I
Conductivity	µS/cm	12	370	463	601	426	596	
Calcium (Ca++)	mg/l	12	32.1	47.1	54.5	47.6	54.5	
Sulphate (SO4--)	mg/l	12	23.6	34.8	47.3	36.2	40.8	
Magnesium (Mg++)	mg/l	12	16.5	24.1	36.5	22.0	32.8	
Potassium (K+)	mg/l	5	1.4	2.0	2.6	2.0		
Sodium (Na+)	mg/l	5	18.0	20.6	29.6	18.0		
Manganese (Mn)	mg/l	8	0.0030	0.0405	0.2400	0.0120		
Iron (Fe)	mg/l	8	0.370	0.763	1.200	0.800		
Chloride (Cl-)	mg/l	12	21.6	39.9	83.9	32.5	79.7	
Silicates (SiO2)	mg/l	10	0.82	3.92	8.40	3.27		
Zinc (Zn), dissolved	µg/l	1	22.00	22.00	22.00			III
Copper (Cu), dissolved	µg/l	1	16.00	16.00	16.00			III
Chromium (Cr), total dissolved	µg/l	1	18.00	18.00	18.00			III
Lead (Pb), dissolved	µg/l	1	7.50	7.50	7.50			III
Cadmium (Cd), dissolved	µg/l	1	0.18	0.18	0.18			III
Mercury (Hg), dissolved	µg/l	1	0.140	0.140	0.140			III
Nickel (Ni), dissolved	µg/l	1	2.90	2.90	2.90			III
Arsenic (As), dissolved	µg/l	1	0.25	0.25	0.25			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	8	2.00	14.58	36.00	11.55		II
Copper (Cu)	µg/l	8	0.98	5.05	12.40	3.95		II
Chromium (Cr) - total	µg/l	8	1.40	3.11	9.80	2.00		II
Lead (Pb)	µg/l	8	1.00	2.16	4.80	1.40		II
Cadmium (Cd)	µg/l	8	0.04	0.62	1.20	0.67		III
Mercury (Hg)	µg/l	8	0.028	0.072	0.240	0.036		IV
Nickel (Ni)	µg/l	8	1.00	1.88	4.00	1.25		II
Arsenic (As)	µg/l	8	0.09	0.41	0.88	0.39		II
Aluminium (Al)	µg/l	2	48.10	48.45	48.80			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.082	0.108	0.093	0.105	
AOX	µg/l	7	10.50	15.20	18.00	17.40		II
Petroleum hydrocarbons	mg/l	12	0.012	0.029	0.049	0.029	0.048	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0123	0.0200	0.0100		III
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	11	0.30	0.31	0.36	0.30	0.30	II
Carbon tetrachloride	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Trichloroethylene	µg/l	11	0.30	0.30	0.30	0.30	0.30	II
Tetrachloroethylene	µg/l	11	0.25	0.25	0.25	0.25	0.25	II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.170	9.804	92.000	0.825	14.750	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	3.064	28.000	0.185	5.030	
Faecal streptococci	1000CFU/100m	12	0.000	0.134	0.920	0.011	0.493	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 0	Altitude: 4 m	RO08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	947.0	2043.9	3610.0	1880.0	3140.0	
Temperature	°C	12	2.5	13.2	26.0	12.8	22.4	
Suspended solids	mg/l	12	11.0	55.8	103.0	55.0	87.3	
Dissolved oxygen	mg/l	12	6.6	9.1	12.1	8.8	7.3	I
BOD (5)	mg/l	12	0.6	2.3	4.1	2.3	3.8	II
COD (Mn)	mg/l	12	2.2	4.0	6.0	3.9	4.8	I
COD (Cr)	mg/l	12	19.7	30.2	38.9	29.4	34.5	III
TOC	mg/l	5	2.1	6.3	8.5	7.4		
DOC	mg/l	1	7.9	7.9	7.9			
pH	-	12	7.0	7.5	8.0	7.5	8.0	II
							7.2	II
Alkalinity - total	mmol/l	12	2.7	3.3	4.1	3.2	3.7	
Ammonium (NH4-N)	mg/l	12	0.020	0.280	0.701	0.209	0.586	III
Nitrite (NO2-N)	mg/l	12	0.010	0.034	0.087	0.026	0.057	II
Nitrate (NO3-N)	mg/l	12	0.800	1.387	2.390	1.255	2.085	II
Total nitrogen	mg/l	12	1.27	2.05	3.20	1.98	2.91	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.036	0.080	0.024	0.076	II
Total phosphorus	mg/l	11	0.067	0.156	0.272	0.142	0.242	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	7.1	12.3	17.5			I
Conductivity	µS/cm	12	370	464	604	420	596	
Calcium (Ca++)	mg/l	12	39.3	47.7	56.1	45.8	54.5	
Sulphate (SO4--)	mg/l	12	24.8	35.4	48.4	37.5	41.9	
Magnesium (Mg++)	mg/l	12	14.1	24.5	34.3	25.5	32.9	
Potassium (K+)	mg/l	5	1.2	2.0	2.6	2.0		
Sodium (Na+)	mg/l	5	17.8	20.6	28.8	18.4		
Manganese (Mn)	mg/l	7	0.0030	0.0107	0.0320	0.0030		
Iron (Fe)	mg/l	7	0.420	0.710	1.100	0.750		
Chloride (Cl-)	mg/l	12	21.6	38.7	76.3	32.5	72.8	
Silicates (SiO2)	mg/l	11	0.80	4.67	8.27	4.64	6.78	
Zinc (Zn), dissolved	µg/l	1	25.00	25.00	25.00			III
Copper (Cu), dissolved	µg/l	1	15.80	15.80	15.80			III
Chromium (Cr), total dissolved	µg/l	1	17.40	17.40	17.40			III
Lead (Pb), dissolved	µg/l	1	7.20	7.20	7.20			III
Cadmium (Cd), dissolved	µg/l	1	0.20	0.20	0.20			III
Mercury (Hg), dissolved	µg/l	1	0.150	0.150	0.150			III
Nickel (Ni), dissolved	µg/l	1	2.50	2.50	2.50			III
Arsenic (As), dissolved	µg/l	1	0.26	0.26	0.26			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	7	1.40	9.97	28.00	9.40		II
Copper (Cu)	µg/l	7	0.94	3.95	12.70	2.50		II
Chromium (Cr) - total	µg/l	7	1.40	2.99	8.30	1.90		II
Lead (Pb)	µg/l	7	0.87	2.10	4.60	1.90		II
Cadmium (Cd)	µg/l	7	0.04	0.55	1.00	0.69		II
Mercury (Hg)	µg/l	7	0.025	0.070	0.280	0.035		IV
Nickel (Ni)	µg/l	7	1.00	1.77	3.50	1.10		II
Arsenic (As)	µg/l	7	0.10	0.41	0.90	0.35		II
Aluminium (Al)	µg/l	2	49.00	49.80	50.60			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.081	0.126	0.091	0.102	
AOX	µg/l	7	11.50	15.40	18.80	17.20		II
Petroleum hydrocarbons	mg/l	12	0.012	0.026	0.051	0.023	0.038	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0123	0.0200	0.0100		III
Atrazine	µg/l	9	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.30	0.30	0.30		II
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.170	17.277	160.000	2.200	16.000	
Faecal coliforms (44 C)	1000CFU/100m	12	0.045	14.376	160.000	0.330	8.390	
Faecal streptococci	1000CFU/100m	12	0.002	0.135	0.920	0.022	0.398	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Arges  
 Distance from the mouth 0  
 Location: Middle

Catchment: 12550 km2  
 Altitude: 13 m  
 2006  
 RO09

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	10.1	80.3	389.0	73.8	111.0	
Temperature	°C	11	0.5	14.7	27.5	16.5	24.0	
Suspended solids	mg/l	11	49.0	138.7	568.0	95.0	171.0	
Dissolved oxygen	mg/l	11	7.7	9.4	13.7	9.0	7.7	I
BOD (5)	mg/l	11	3.2	4.6	5.8	4.9	5.2	III
COD (Mn)	mg/l	11	4.2	6.3	8.1	6.7	7.6	II
COD (Cr)	mg/l	11	10.7	13.6	17.9	12.4	16.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.6	7.8	8.0	7.8	7.9	II
							7.7	II
Alkalinity - total	mmol/l	11	3.0	4.0	4.8	4.0	4.5	
Ammonium (NH4-N)	mg/l	11	1.040	3.402	6.418	3.453	4.969	V
Nitrite (NO2-N)	mg/l	11	0.027	0.067	0.125	0.055	0.113	III
Nitrate (NO3-N)	mg/l	11	0.730	1.768	3.890	1.545	2.680	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.070	0.183	0.488	0.146	0.289	IV
Total phosphorus	mg/l	11	0.160	0.307	0.572	0.324	0.432	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	8	3.0	3.9	4.5	3.9		I
Conductivity	µS/cm	11	417	526	653	507	617	
Calcium (Ca++)	mg/l	11	60.2	75.9	89.4	76.0	88.0	
Sulphate (SO4--)	mg/l	11	57.6	76.5	107.0	68.5	106.1	
Magnesium (Mg++)	mg/l	11	14.2	19.3	27.2	17.5	26.8	
Potassium (K+)	mg/l	11	3.1	4.3	6.2	4.1	5.9	
Sodium (Na+)	mg/l	11	15.4	24.9	34.7	25.7	31.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	26.8	43.1	60.4	42.8	56.0	
Silicates (SiO2)	mg/l	10	1.97	7.09	9.85	8.01		
Zinc (Zn), dissolved	µg/l	11	1.50	8.30	19.00	8.18	10.20	III
Copper (Cu), dissolved	µg/l	11	1.40	2.72	5.00	2.40	4.50	III
Chromium (Cr), total dissolved	µg/l	11	0.55	1.45	2.75	1.39	1.86	II
Lead (Pb), dissolved	µg/l	11	0.17	0.62	1.85	0.50	1.08	III
Cadmium (Cd), dissolved	µg/l	11	0.04	0.12	0.21	0.10	0.19	III
Mercury (Hg), dissolved	µg/l	11	0.048	0.364	3.100	0.100	0.150	III
Nickel (Ni), dissolved	µg/l	11	0.69	1.12	1.74	1.10	1.51	III
Arsenic (As), dissolved	µg/l	9	0.70	1.68	2.90	1.50		III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l	1	1.10	1.10	1.10			II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	11	0.043	0.058	0.078	0.056	0.072	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	0.010	0.010	0.010	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	9	0.0055	0.0108	0.0533	0.0055		V
Atrazine	µg/l	7	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.37	0.99	0.30		III
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.900	12.041	79.000	5.420	17.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.130	3.928	27.000	1.609	4.900	
Faecal streptococci	1000CFU/100m	11	0.017	0.396	2.200	0.140	0.790	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Siret	Catchment: 42890 km2	2006
Distance from the mouth 0	Altitude: 5 m	RO10
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	35.7	277.0	1360.0	180.0	679.2	
Temperature	°C	11	0.0	15.0	26.0	14.0	25.0	
Suspended solids	mg/l	12	11.0	158.7	441.0	91.0	400.5	
Dissolved oxygen	mg/l	12	5.8	7.8	10.1	7.6	5.9	III
BOD (5)	mg/l	12	1.6	4.0	5.3	4.1	4.7	II
COD (Mn)	mg/l	12	2.7	5.0	7.2	5.1	6.3	II
COD (Cr)	mg/l	11	28.6	41.9	77.2	39.6	53.3	IV
TOC	mg/l	4	7.2	10.0	15.4	8.6		
DOC	mg/l	1	5.2	5.2	5.2			
pH	-	11	7.5	8.1	8.5	8.1	8.5	II
							7.5	II
Alkalinity - total	mmol/l	12	2.8	3.4	4.1	3.4	3.7	
Ammonium (NH4-N)	mg/l	12	0.099	0.528	1.220	0.444	1.120	IV
Nitrite (NO2-N)	mg/l	12	0.019	0.069	0.348	0.035	0.127	II
Nitrate (NO3-N)	mg/l	12	0.786	1.194	1.920	1.110	1.592	II
Total nitrogen	mg/l	12	1.29	2.27	3.88	2.20	3.04	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.036	0.078	0.030	0.072	II
Total phosphorus	mg/l	11	0.061	0.158	0.549	0.091	0.419	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	19.9	20.1	20.4			I
Conductivity	µS/cm	12	426	600	721	611	718	
Calcium (Ca++)	mg/l	12	46.7	58.5	72.0	57.5	70.1	
Sulphate (SO4--)	mg/l	11	39.2	60.0	90.6	53.6	82.9	
Magnesium (Mg++)	mg/l	12	17.0	25.2	42.6	24.2	29.1	
Potassium (K+)	mg/l	6	1.4	3.4	4.6	3.6		
Sodium (Na+)	mg/l	6	18.4	32.6	50.4	30.7		
Manganese (Mn)	mg/l	8	0.0220	0.0391	0.0780	0.0330		
Iron (Fe)	mg/l	8	0.560	1.058	1.450	1.150		
Chloride (Cl-)	mg/l	12	36.0	62.5	100.9	62.0	83.1	
Silicates (SiO2)	mg/l	11	3.39	5.56	8.27	5.26	6.74	
Zinc (Zn), dissolved	µg/l	1	34.00	34.00	34.00			III
Copper (Cu), dissolved	µg/l	1	7.90	7.90	7.90			III
Chromium (Cr), total dissolved	µg/l	1	5.70	5.70	5.70			III
Lead (Pb), dissolved	µg/l	1	4.20	4.20	4.20			III
Cadmium (Cd), dissolved	µg/l	1	0.95	0.95	0.95			III
Mercury (Hg), dissolved	µg/l	1	0.220	0.220	0.220			III
Nickel (Ni), dissolved	µg/l	1	1.60	1.60	1.60			III
Arsenic (As), dissolved	µg/l	1	0.33	0.33	0.33			II
Aluminium (Al), dissolved	µg/l	1	78.80	78.80	78.80			
Zinc (Zn)	µg/l	8	3.80	16.14	32.00	14.60		II
Copper (Cu)	µg/l	8	2.10	5.14	8.10	5.60		II
Chromium (Cr) - total	µg/l	8	1.40	4.62	8.40	5.50		II
Lead (Pb)	µg/l	8	1.40	4.16	10.20	3.55		IV
Cadmium (Cd)	µg/l	8	0.04	1.56	3.40	1.20		IV
Mercury (Hg)	µg/l	8	0.025	0.070	0.200	0.050		III
Nickel (Ni)	µg/l	8	1.00	2.06	3.40	1.95		II
Arsenic (As)	µg/l	8	0.11	0.59	1.00	0.52		II
Aluminium (Al)	µg/l	1	69.30	69.30	69.30			
Phenol index	mg/l	12	0.0050	0.0055	0.0080	0.0050	0.0073	
Anionic active surfactants (PAL-A)	mg/l	12	0.090	0.124	0.236	0.117	0.131	
AOX	µg/l	7	29.20	33.53	44.20	31.70		II
Petroleum hydrocarbons	mg/l	12	0.032	0.043	0.059	0.041	0.055	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	10	0.0200	0.0400	0.0800	0.0350		V
Atrazine	µg/l	10	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.30	0.30	0.30		II
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	10	3.400	74.640	160.000	58.000		
Faecal coliforms (44 C)	1000CFU/100m	10	1.700	35.380	92.000	19.000		
Faecal streptococci	1000CFU/100m	10	0.220	2.384	16.000	0.540		
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Prut	Catchment: 27480 km2	2006
Distance from the mouth 0	Altitude: 4 m	RO11
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	0.0	15.4	26.0	15.0	25.0	
Suspended solids	mg/l	12	6.0	82.3	332.0	35.0	203.1	
Dissolved oxygen	mg/l	12	5.2	8.2	10.8	8.3	5.5	III
BOD (5)	mg/l	12	1.3	3.6	5.7	3.9	4.8	II
COD (Mn)	mg/l	12	2.6	4.3	5.5	4.2	5.4	II
COD (Cr)	mg/l	11	24.1	38.5	49.6	34.6	48.2	III
TOC	mg/l	4	4.7	7.2	12.2	6.0		
DOC	mg/l	1	8.1	8.1	8.1			
pH	-	11	7.5	8.1	8.5	8.1	8.5	II
							8.0	II
Alkalinity - total	mmol/l	12	2.8	3.6	4.3	3.5	4.2	
Ammonium (NH4-N)	mg/l	12	0.138	0.497	0.960	0.313	0.957	IV
Nitrite (NO2-N)	mg/l	12	0.010	0.042	0.115	0.027	0.082	III
Nitrate (NO3-N)	mg/l	12	0.273	1.051	1.980	1.105	1.347	II
Total nitrogen	mg/l	12	1.07	1.99	3.55	1.91	2.69	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.039	0.088	0.036	0.072	II
Total phosphorus	mg/l	11	0.067	0.123	0.439	0.086	0.148	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	22.4	26.1	29.7			II
Conductivity	µS/cm	12	392	560	832	522	699	
Calcium (Ca++)	mg/l	12	47.2	56.0	66.8	56.1	61.8	
Sulphate (SO4--)	mg/l	11	28.1	47.6	78.2	44.1	70.1	
Magnesium (Mg++)	mg/l	12	9.7	22.6	42.9	23.6	26.9	
Potassium (K+)	mg/l	6	1.2	2.4	3.4	2.4		
Sodium (Na+)	mg/l	6	17.2	24.8	28.6	27.0		
Manganese (Mn)	mg/l	8	0.0200	0.0331	0.0550	0.0320		
Iron (Fe)	mg/l	8	0.630	0.918	1.100	0.965		
Chloride (Cl-)	mg/l	12	34.4	50.9	64.8	51.7	61.9	
Silicates (SiO2)	mg/l	11	3.86	5.78	8.04	5.84	7.50	
Zinc (Zn), dissolved	µg/l	1	12.00	12.00	12.00			II
Copper (Cu), dissolved	µg/l	1	29.00	29.00	29.00			II
Chromium (Cr), total dissolved	µg/l	1	1.70	1.70	1.70			II
Lead (Pb), dissolved	µg/l	1	6.40	6.40	6.40			II
Cadmium (Cd), dissolved	µg/l	1	0.43	0.43	0.43			II
Mercury (Hg), dissolved	µg/l	1	0.096	0.096	0.096			II
Nickel (Ni), dissolved	µg/l	1	2.40	2.40	2.40			II
Arsenic (As), dissolved	µg/l	1	0.16	0.16	0.16			II
Aluminium (Al), dissolved	µg/l	1	55.60	55.60	55.60			
Zinc (Zn)	µg/l	8	3.60	17.20	41.00	8.30		II
Copper (Cu)	µg/l	8	1.00	4.96	12.00	3.10		II
Chromium (Cr) - total	µg/l	8	1.40	2.93	7.00	1.95		II
Lead (Pb)	µg/l	8	1.00	2.99	6.50	2.45		III
Cadmium (Cd)	µg/l	8	0.08	1.03	2.10	1.21		IV
Mercury (Hg)	µg/l	8	0.025	0.045	0.096	0.039		II
Nickel (Ni)	µg/l	8	1.00	1.66	2.40	1.70		II
Arsenic (As)	µg/l	8	0.10	0.52	0.95	0.45		II
Aluminium (Al)	µg/l	1	50.40	50.40	50.40			
Phenol index	mg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.075	0.104	0.183	0.103	0.115	
AOX	µg/l	7	21.50	23.90	29.50	22.50		II
Petroleum hydrocarbons	mg/l	12	0.012	0.020	0.027	0.020	0.023	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0400	0.0400	0.0400	0.0400		I
pp-DDT	µg/l	10	0.0055	0.0092	0.0200	0.0100		III
Atrazine	µg/l	10	0.500	0.500	0.500	0.500		IV
Chloroform	µg/l	10	0.30	0.30	0.30	0.30		II
Carbon tetrachloride	µg/l	10	0.25	0.25	0.25	0.25		II
Trichloroethylene	µg/l	10	0.30	0.30	0.30	0.30		II
Tetrachloroethylene	µg/l	10	0.25	0.25	0.25	0.25		II
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	0.000	62.745	240.000	22.000	160.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	47.109	240.000	22.000	92.000	
Faecal streptococci	1000CFU/100m	11	0.000	1.749	16.000	0.023	1.600	
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 580100 km2	2006
Distance from the mouth 834	Altitude: 35 m	BG01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	8	8.4	17.9	24.9	17.6		
Suspended solids	mg/l	8	63.0	86.8	110.0	86.0		
Dissolved oxygen	mg/l	8	5.6	7.8	11.4	7.2		III
BOD (5)	mg/l	8	1.8	3.2	4.0	3.3		II
COD (Mn)	mg/l	8	2.2	3.7	4.6	3.8		I
COD (Cr)	mg/l	8	10.8	14.6	18.7	14.4		II
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.3	7.8	8.3	7.8		II
Alkalinity - total	mmol/l	8	3.1	3.3	3.6	3.3		II
Ammonium (NH4-N)	mg/l	8	0.102	0.202	0.445	0.144		III
Nitrite (NO2-N)	mg/l	8	0.023	0.031	0.045	0.029		II
Nitrate (NO3-N)	mg/l	8	0.873	1.319	1.645	1.401		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	8	0.051	0.070	0.102	0.064		III
Total phosphorus	mg/l	8	0.076	0.125	0.198	0.117		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	8	1.5	3.3	6.2	3.0		I
Conductivity	µS/cm	8	354	389	422	392		
Calcium (Ca++)	mg/l	8	50.1	56.1	66.1	53.1		
Sulphate (SO4--)	mg/l	8	29.1	39.8	48.4	40.4		
Magnesium (Mg++)	mg/l	8	9.7	14.6	20.7	15.8		
Potassium (K+)	mg/l	8	2.0	2.6	3.2	2.6		
Sodium (Na+)	mg/l	8	9.8	14.7	19.5	14.3		
Manganese (Mn)	mg/l	8	0.0010	0.0150	0.0290	0.0135		
Iron (Fe)	mg/l	8	0.054	0.165	0.360	0.151		
Chloride (Cl-)	mg/l	8	18.6	20.2	21.9	20.1		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	8	< 1.00	11.88	18.00	14.50		II
Copper (Cu)	µg/l	8	5.00	7.13	9.00	7.50		II
Chromium (Cr) - total	µg/l	8	< 10.00	< 10.00	< 10.00	10.00		II
Lead (Pb)	µg/l	8	< 1.00	< 1.00	< 1.00	1.00		II
Cadmium (Cd)	µg/l	8	< 1.00	< 1.00	< 1.00	1.00		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	8	2.00	4.25	13.00	2.50		II
Arsenic (As)	µg/l	8	1.60	1.95	2.30	1.90		II
Aluminium (Al)	µg/l							
Phenol index	mg/l	8	0.0020	0.0040	0.0100	0.0020		
Anionic active surfactants (PAL-A)	mg/l	8	< 0.050	< 0.050	: 0.050	0.050		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	< 0.100	0.213	0.300	0.250		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	8	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l	8	0.0100	0.0100	0.0100	0.0100		II
Atrazine	µg/l	8	< 0.010	< 0.010	: 0.010	0.010		I
Chloroform	µg/l	8	< 0.02	< 0.02	< 0.02	0.02		I
Carbon tetrachloride	µg/l	8	< 0.02	< 0.02	< 0.02	0.02		I
Trichloroethylene	µg/l	8	< 0.02	< 0.02	< 0.02	0.02		I
Tetrachloroethylene	µg/l	8	< 0.02	< 0.02	< 0.02	0.02		I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	8	4.000	72.875	240.000	43.000		
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	8	0.001	0.016	0.060	0.009		
Salmonella	No/1l	8	0.0	0.0	0.0	0.0		

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 580100 km2	2006
Distance from the mouth 834	Altitude: 35 m	BG01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s								
Temperature	°C	8	7.0	17.5	24.9	17.6			
Suspended solids	mg/l	8	72.0	86.1	112.0	84.0			
Dissolved oxygen	mg/l	8	5.4	7.6	11.0	7.2		III	
BOD (5)	mg/l	8	1.8	3.2	4.1	3.2		II	
COD (Mn)	mg/l	8	2.2	3.8	4.9	3.9		I	
COD (Cr)	mg/l	8	11.6	16.0	23.7	15.4		II	
TOC	mg/l								
DOC	mg/l								
pH	-	8	7.5	7.9	8.3	7.8		II	
Alkalinity - total	mmol/l	8	3.2	3.3	3.6	3.3		II	
Ammonium (NH4-N)	mg/l	8	0.099	0.213	0.462	0.147		III	
Nitrite (NO2-N)	mg/l	8	0.024	0.034	0.057	0.032		II	
Nitrate (NO3-N)	mg/l	8	0.715	1.335	2.008	1.351		II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	8	0.060	0.071	0.088	0.070		II	
Total phosphorus	mg/l	8	0.077	0.137	0.206	0.139		III	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	8	0.6	4.1	10.4	3.3		I	
Conductivity	µS/cm	8	350	408	554	391			
Calcium (Ca++)	mg/l	8	50.1	57.2	66.9	57.1			
Sulphate (SO4--)	mg/l	8	26.2	40.1	48.5	41.4			
Magnesium (Mg++)	mg/l	8	8.5	14.3	19.5	15.2			
Potassium (K+)	mg/l	8	1.9	2.4	3.0	2.3			
Sodium (Na+)	mg/l	8	9.8	14.2	19.8	14.4			
Manganese (Mn)	mg/l	8	0.0010	0.0150	0.0250	0.0155			
Iron (Fe)	mg/l	8	0.050	0.192	0.443	0.186			
Chloride (Cl-)	mg/l	8	18.3	21.3	25.6	20.7			
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l								
Copper (Cu), dissolved	µg/l								
Chromium (Cr), total dissolved	µg/l								
Lead (Pb), dissolved	µg/l								
Cadmium (Cd), dissolved	µg/l								
Mercury (Hg), dissolved	µg/l								
Nickel (Ni), dissolved	µg/l								
Arsenic (As), dissolved	µg/l								
Aluminium (Al), dissolved	µg/l								
Zinc (Zn)	µg/l	8	<	1.00	13.00	23.00	13.50	II	
Copper (Cu)	µg/l	8		6.00	8.00	12.00	7.50	II	
Chromium (Cr) - total	µg/l	8	<	10.00	<	10.00	<	10.00	II
Lead (Pb)	µg/l	8	<	1.00	<	1.00	<	1.00	II
Cadmium (Cd)	µg/l	8	<	1.00	<	1.00	<	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	8		2.00	5.50	11.00	5.50	II	
Arsenic (As)	µg/l	8		1.60	2.19	4.10	2.00	II	
Aluminium (Al)	µg/l								
Phenol index	mg/l	8		0.0020	0.0055	0.0160	0.0020		
Anionic active surfactants (PAL-A)	mg/l	8	<	0.050	0.055	0.074	0.050		
AOX	µg/l								
Petroleum hydrocarbons	mg/l	8	<	0.100	0.288	0.700	0.300		
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	8		0.0100	0.0100	0.0100	0.0100	I	
pp-DDT	µg/l	8		0.0100	0.0100	0.0100	0.0100	II	
Atrazine	µg/l	8	<	0.010	<	0.010	:	0.010	I
Chloroform	µg/l	8	<	0.02	<	0.02	<	0.02	I
Carbon tetrachloride	µg/l	8	<	0.02	<	0.02	<	0.02	I
Trichloroethylene	µg/l	8	<	0.02	<	0.02	<	0.02	I
Tetrachloroethylene	µg/l	8	<	0.02	<	0.02	<	0.02	I
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	8		4.200	100.550	250.000	68.000		
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	8		0.002	0.023	0.076	0.011		
Salmonella	No/1l	8		0.0	0.0	0.0	0.0		

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 580100 km2	2006
Distance from the mouth 834	Altitude: 20 m	BG01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s								
Temperature	°C	12	2.8	13.8	25.1	13.3	24.5		
Suspended solids	mg/l	12	75.0	98.4	183.0	91.5	113.3		
Dissolved oxygen	mg/l	12	5.4	8.3	11.7	7.8	5.7	III	
BOD (5)	mg/l	12	2.1	3.3	4.2	3.4	4.1	II	
COD (Mn)	mg/l	12	2.6	3.9	5.4	3.8	4.9	I	
COD (Cr)	mg/l	12	10.4	16.1	25.0	15.8	23.4	II	
TOC	mg/l								
DOC	mg/l								
pH	-	12	7.6	7.9	8.3	7.9	8.2	II	
							7.7	II	
Alkalinity - total	mmol/l	12	3.1	3.3	3.7	3.2	3.5		
Ammonium (NH4-N)	mg/l	12	0.067	0.285	1.242	0.198	0.435	III	
Nitrite (NO2-N)	mg/l	12	0.017	0.028	0.037	0.028	0.036	II	
Nitrate (NO3-N)	mg/l	12	0.266	2.118	6.032	1.661	3.049	III	
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	12	0.053	0.097	0.268	0.071	0.148	III	
Total phosphorus	mg/l	12	0.087	0.254	0.864	0.157	0.431	IV	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	12	0.6	11.4	81.9	4.5	13.1	I	
Conductivity	µS/cm	12	358	425	659	401	444		
Calcium (Ca++)	mg/l	12	48.1	57.6	68.1	59.1	62.1		
Sulphate (SO4--)	mg/l	12	28.3	46.7	68.3	46.1	62.2		
Magnesium (Mg++)	mg/l	12	10.9	15.3	23.1	14.6	19.3		
Potassium (K+)	mg/l	12	2.0	2.5	3.2	2.4	3.1		
Sodium (Na+)	mg/l	12	9.8	17.1	39.7	15.0	20.9		
Manganese (Mn)	mg/l	12	0.0010	0.0198	0.0350	0.0185	0.0328		
Iron (Fe)	mg/l	12	0.025	0.261	1.003	0.216	0.388		
Chloride (Cl-)	mg/l	12	15.7	22.3	29.2	22.3	25.6		
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l								
Copper (Cu), dissolved	µg/l								
Chromium (Cr), total dissolved	µg/l								
Lead (Pb), dissolved	µg/l								
Cadmium (Cd), dissolved	µg/l								
Mercury (Hg), dissolved	µg/l								
Nickel (Ni), dissolved	µg/l								
Arsenic (As), dissolved	µg/l								
Aluminium (Al), dissolved	µg/l								
Zinc (Zn)	µg/l	12	<	1.00	20.92	40.00	20.50	32.90	II
Copper (Cu)	µg/l	12		3.00	23.50	103.00	10.50	63.90	IV
Chromium (Cr) - total	µg/l	12	<	10.00	<	10.00	<	10.00	II
Lead (Pb)	µg/l	12	<	1.00	<	1.00	<	1.00	II
Cadmium (Cd)	µg/l	12	<	1.00	<	1.00	<	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	12	<	1.00	9.00	40.00	4.50	25.10	II
Arsenic (As)	µg/l	12		1.40	2.28	3.90	2.10	3.49	II
Aluminium (Al)	µg/l								
Phenol index	mg/l	12		0.0020	0.0069	0.0330	0.0020	0.0180	
Anionic active surfactants (PAL-A)	mg/l	12	<	0.050	0.053	0.075	0.050	0.057	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	12		0.100	0.317	0.800	0.300	0.490	
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	12		0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	12		0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	12	<	0.010	<	0.010	:	0.010	I
Chloroform	µg/l	12	<	0.02	<	0.02	<	0.02	I
Carbon tetrachloride	µg/l	12	<	0.02	<	0.02	<	0.02	I
Trichloroethylene	µg/l	12	<	0.02	<	0.02	<	0.02	I
Tetrachloroethylene	µg/l	13	<	0.02	<	0.02	<	0.02	I
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	12		1.200	39.975	190.000	11.500	126.700	
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	12		0.000	0.033	0.170	0.019	0.060	
Salmonella	No/1l	12		0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 608820 km2	2006
Distance from the mouth 641	Altitude: 16 m	BG02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	5.3	15.0	25.1	14.7	24.0	
Suspended solids	mg/l	11	10.0	35.8	91.0	28.0	63.0	
Dissolved oxygen	mg/l	11	4.1	6.7	8.7	6.9	4.4	IV
BOD (5)	mg/l	11	6.6	10.4	16.6	9.8	14.2	IV
COD (Mn)	mg/l	11	13.4	19.7	34.9	20.0	27.5	IV
COD (Cr)	mg/l	11	20.0	31.3	53.0	30.6	43.3	III
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.6	7.9	8.2	7.9	8.2	II
							7.7	II
Alkalinity - total	mmol/l	11	2.8	3.3	3.8	3.3	3.6	
Ammonium (NH4-N)	mg/l	11	0.070	0.314	1.100	0.200	0.800	IV
Nitrite (NO2-N)	mg/l	11	0.011	0.024	0.035	0.024	0.035	II
Nitrate (NO3-N)	mg/l	11	0.100	0.736	1.400	0.900	1.300	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	9	0.040	0.064	0.100	0.060		II
Total phosphorus	mg/l	9	0.050	0.128	0.300	0.090		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	10	0.8	7.0	19.4	4.9		I
Conductivity	µS/cm	11	370	424	500	409	495	
Calcium (Ca++)	mg/l	11	51.0	56.9	64.0	54.9	63.2	
Sulphate (SO4--)	mg/l	11	18.6	37.0	52.2	37.9	45.2	
Magnesium (Mg++)	mg/l	11	1.4	17.3	31.6	17.4	23.9	
Potassium (K+)	mg/l	8	2.5	3.8	10.2	2.9		
Sodium (Na+)	mg/l	9	12.7	16.8	22.0	15.9		
Manganese (Mn)	mg/l	11	0.0040	0.0091	0.0190	0.0080	0.0190	
Iron (Fe)	mg/l	11	0.010	0.087	0.258	0.064	0.165	
Chloride (Cl-)	mg/l	11	16.3	21.6	29.9	20.0	27.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	13.00	20.00	33.00	18.00	31.00	II
Copper (Cu)	µg/l	10	3.00	6.10	13.00	5.50		II
Chromium (Cr) - total	µg/l	11 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	11 <	1.00	2.36	10.00	1.00	7.00	III
Cadmium (Cd)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Arsenic (As)	µg/l	11	1.40	2.38	3.20	2.40	3.10	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.050 <	0.050	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.100	0.109	0.200	0.100	0.100	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l	9	0.0100	0.0100	0.0100	0.0100		II
Atrazine	µg/l	11 <	0.010 <	0.010	0.010	0.010	0.010	I
Chloroform	µg/l	9 <	0.02 <	0.02 <	0.02	0.02		I
Carbon tetrachloride	µg/l	9 <	0.02 <	0.02 <	0.02	0.02		I
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: Danube	Catchment: 650340 km2	2006
Distance from the mouth 554	Altitude: 12 m	BG03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	2.2	14.8	25.9	14.2	25.1	
Suspended solids	mg/l	12	2.0	45.5	138.0	30.0	118.8	
Dissolved oxygen	mg/l	12	6.2	9.3	12.5	9.9	6.4	II
BOD (5)	mg/l							
COD (Mn)	mg/l	12	2.9	4.5	7.1	4.2	6.1	II
COD (Cr)	mg/l	11	14.2	21.7	30.6	21.5	30.0	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.8	8.1	8.4	8.1	8.3	II
							7.9	II
Alkalinity - total	mmol/l	11	2.9	3.5	5.0	3.2	4.2	
Ammonium (NH4-N)	mg/l	12 <	0.050	0.157	0.870	0.080	0.178	I
Nitrite (NO2-N)	mg/l	12	0.014	0.025	0.060	0.020	0.041	II
Nitrate (NO3-N)	mg/l	12	0.910	1.477	2.170	1.455	2.060	II
Total nitrogen	mg/l	1	2.93	2.93	2.93			II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11 <	0.020	0.062	0.083	0.062	0.083	II
Total phosphorus	mg/l	11	0.060	0.486	1.500	0.350	0.730	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	0.6	6.7	18.2	3.6	16.1	I
Conductivity	µS/cm	12	382	430	504	422	470	
Calcium (Ca++)	mg/l	12	37.7	55.8	71.4	57.0	65.5	
Sulphate (SO4--)	mg/l	12	27.8	38.7	62.4	35.7	54.5	
Magnesium (Mg++)	mg/l	12	8.3	36.4	70.9	37.4	51.2	
Potassium (K+)	mg/l	12	2.5	2.9	3.4	2.8	3.4	
Sodium (Na+)	mg/l	12	11.9	17.3	22.5	17.0	21.9	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	12	0.067	0.952	4.000	0.441	2.688	
Chloride (Cl-)	mg/l	12 <	10.0	18.4	28.4	18.8	24.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	13.00	18.67	31.00	18.50	21.80	II
Copper (Cu)	µg/l	12	3.00	7.75	39.00	5.00	6.90	II
Chromium (Cr) - total	µg/l	12 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	12 <	1.00	2.83	8.00	1.00	6.90	III
Cadmium (Cd)	µg/l	12 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12 <	1.00	1.67	9.00	1.00	1.00	II
Arsenic (As)	µg/l	12	2.00	2.50	3.00	2.50	3.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.000	8.153	26.577	6.261	22.352	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	2.570	14.144	1.257	4.883	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 669900 km2	2006
Distance from the mouth 503	Altitude: 7 m	BG04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	1.3	14.7	24.7	19.4	22.0	
Suspended solids	mg/l	11	4.0	18.7	52.0	16.0	40.0	
Dissolved oxygen	mg/l	11	5.1	8.0	11.2	8.2	5.6	III
BOD (5)	mg/l	11	1.3	2.2	3.2	2.2	2.6	I
COD (Mn)	mg/l	11	3.0	4.0	5.5	3.6	5.4	II
COD (Cr)	mg/l	11	10.0	12.4	15.9	12.0	15.0	II
TOC	mg/l							
DOC	mg/l	7	1.5	3.4	4.8	3.8		
pH	-	11	7.8	8.1	8.2	8.1	8.2	II
							7.8	II
Alkalinity - total	mmol/l	11	2.8	3.2	3.8	3.2	3.6	
Ammonium (NH4-N)	mg/l	11 <	0.050	0.077	0.161	0.064	0.125	I
Nitrite (NO2-N)	mg/l	11	0.004	0.018	0.038	0.018	0.024	II
Nitrate (NO3-N)	mg/l	11	0.704	1.676	2.490	1.540	2.240	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	11 <	1.00 <	1.00 <	1.00 <	1.00	1.00	
Orthophosphate (PO4-P)	mg/l	11	0.045	0.072	0.108	0.069	0.100	II
Total phosphorus	mg/l	11	0.099	0.146	0.262	0.139	0.226	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	1.3	6.3	23.0	3.1	14.6	I
Conductivity	µS/cm	11	275	376	489	368	471	
Calcium (Ca++)	mg/l	11	50.3	56.3	69.9	55.6	59.2	
Sulphate (SO4--)	mg/l	11	28.1	39.3	51.0	38.7	44.8	
Magnesium (Mg++)	mg/l	11	7.5	12.6	17.8	12.7	14.6	
Potassium (K+)	mg/l	11	2.4	2.9	3.6	2.9	3.2	
Sodium (Na+)	mg/l	11	11.9	15.9	20.0	15.1	19.7	
Manganese (Mn)	mg/l	11	0.0010	0.0820	0.5850	0.0310	0.0800	
Iron (Fe)	mg/l	11	0.039	0.388	1.250	0.377	0.580	
Chloride (Cl-)	mg/l	11	17.7	21.0	26.6	21.4	25.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11 <	1.00	15.64	28.00	16.00	28.00	II
Copper (Cu)	µg/l	11 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Chromium (Cr) - total	µg/l	11 <	10.00 <	10.00 <	10.00 <	10.00	10.00	II
Lead (Pb)	µg/l	11 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Cadmium (Cd)	µg/l	11 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11 <	20.00	29.82	92.00	20.00	42.00	
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l	11 <	0.050 <	0.050 :	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4 <	0.100 <	0.100 :	0.100	0.100		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	1.000	73.300	205.000	54.500	168.000	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	0.081	0.250	0.066	0.169	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 698600 km2	2006
Distance from the mouth 375	Altitude: 7 m	BG05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	9	2.8	16.7	26.0	18.9		
Suspended solids	mg/l	9	4.0	21.8	50.0	18.0		
Dissolved oxygen	mg/l	9	5.4	8.1	11.4	7.9		III
BOD (5)	mg/l	9	1.6	2.2	2.9	2.1		I
COD (Mn)	mg/l	9	3.6	3.9	4.4	3.7		I
COD (Cr)	mg/l	9	11.1	12.9	15.7	12.2		II
TOC	mg/l							
DOC	mg/l	7	1.1	3.5	6.5	3.5		
pH	-	9	7.4	8.0	8.2	8.0		II
Alkalinity - total	mmol/l	9	2.0	3.1	4.0	3.1		
Ammonium (NH4-N)	mg/l	9	0.071	0.138	0.250	0.088		II
Nitrite (NO2-N)	mg/l	9	0.009	0.018	0.030	0.017		II
Nitrate (NO3-N)	mg/l	9	0.794	1.285	1.870	1.280		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	9	0.038	0.061	0.088	0.065		II
Total phosphorus	mg/l	9	0.096	0.150	0.218	0.139		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	9	2.6	19.1	55.7	8.8		III
Conductivity	µS/cm	9	339	403	511	380		
Calcium (Ca++)	mg/l	9	47.0	54.1	68.1	52.1		
Sulphate (SO4--)	mg/l	9	32.1	37.7	47.6	36.0		
Magnesium (Mg++)	mg/l	9	10.0	13.6	15.6	13.7		
Potassium (K+)	mg/l	9	2.3	2.9	3.4	2.9		
Sodium (Na+)	mg/l	9	13.2	17.8	23.8	16.9		
Manganese (Mn)	mg/l	9	0.0300	0.0458	0.0710	0.0460		
Iron (Fe)	mg/l	9	0.230	0.564	0.920	0.580		
Chloride (Cl-)	mg/l	9	21.3	28.0	36.6	28.0		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	9	< 1.00	20.56	40.00	21.00		II
Copper (Cu)	µg/l	9	< 1.00	2.56	15.00	1.00		II
Chromium (Cr) - total	µg/l	9	< 10.00	< 10.00	< 10.00	10.00		II
Lead (Pb)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00		II
Cadmium (Cd)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	9	< 1.00	< 1.00	< 1.00	1.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	9	< 20.00	26.00	69.00	20.00		
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l	9	< 0.050	< 0.050	< 0.050	0.050		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	< 0.100	0.159	0.337	0.100		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l	9	0.0100	0.0100	0.0100	0.0100		II
Atrazine	µg/l	9	0.011	0.060	0.194	0.030		III
Chloroform	µg/l							
Carbon tetrachloride	µg/l	4	< 0.02	< 0.02	< 0.02	0.02		I
Trichloroethylene	µg/l	4	< 0.02	< 0.02	< 0.02	0.02		I
Tetrachloroethylene	µg/l	4	< 0.02	< 0.02	< 0.02	0.02		I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	6.000	154.000	680.000	90.000	230.000	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	11	0.000	0.000	0.000	0.000	0.000	
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 698600 km2	2006
Distance from the mouth 375	Altitude: 7 m	BG05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.3	14.9	26.0	16.6	25.0	
Suspended solids	mg/l	11	2.0	18.4	38.0	16.0	30.0	
Dissolved oxygen	mg/l	11	5.3	8.7	11.4	8.8	5.8	III
BOD (5)	mg/l	11	1.5	2.3	3.3	2.3	3.0	I
COD (Mn)	mg/l	11	3.3	3.9	4.7	3.8	4.5	I
COD (Cr)	mg/l	11	10.6	12.6	15.8	12.3	15.4	II
TOC	mg/l							
DOC	mg/l	7	1.0	2.8	3.9	3.2		
pH	-	11	7.9	8.0	8.2	8.0	8.1	II
							8.0	II
Alkalinity - total	mmol/l	11	2.9	3.3	4.3	3.2	4.0	
Ammonium (NH4-N)	mg/l	11 <	0.050	0.073	0.138	0.050	0.121	I
Nitrite (NO2-N)	mg/l	11	0.007	0.015	0.031	0.013	0.022	II
Nitrate (NO3-N)	mg/l	11	0.768	1.496	2.550	1.420	1.900	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.037	0.062	0.096	0.067	0.082	II
Total phosphorus	mg/l	11	0.099	0.221	0.921	0.141	0.256	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	2.2	16.4	58.7	8.6	32.6	II
Conductivity	µS/cm	11	308	382	501	365	496	
Calcium (Ca++)	mg/l	11	46.7	54.6	67.1	55.6	60.3	
Sulphate (SO4--)	mg/l	11	32.0	38.6	49.4	37.4	47.3	
Magnesium (Mg++)	mg/l	11	11.4	13.5	15.7	13.4	15.1	
Potassium (K+)	mg/l	11	2.2	2.8	3.2	2.8	3.1	
Sodium (Na+)	mg/l	11	13.4	17.2	22.8	16.5	21.9	
Manganese (Mn)	mg/l	11	0.0210	0.0411	0.0740	0.0410	0.0560	
Iron (Fe)	mg/l	11	0.200	0.563	0.960	0.560	0.855	
Chloride (Cl-)	mg/l	11	18.4	26.1	39.7	25.1	29.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11 <	1.00	17.27	33.00	19.00	27.00	II
Copper (Cu)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Chromium (Cr) - total	µg/l	11 <	10.00 <	10.00 <	10.00	10.00	10.00	II
Lead (Pb)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11 <	1.00 <	1.00 <	1.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	11 <	20.00	31.18	74.00	20.00	64.00	
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l	11 <	0.050 <	0.050 ;	0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	5 <	0.100	0.159	0.378	0.100		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	10	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l	10	0.0100	0.0100	0.0100	0.0100		II
Atrazine	µg/l	11	0.014	0.056	0.213	0.021	0.212	IV
Chloroform	µg/l							
Carbon tetrachloride	µg/l	5 <	0.02 <	0.02 <	0.02	0.02		I
Trichloroethylene	µg/l	5 <	0.02 <	0.02 <	0.02	0.02		I
Tetrachloroethylene	µg/l	5 <	0.02 <	0.02 <	0.02	0.02		I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	11	15.000	69.545	145.000	67.000	110.000	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	11	0.000	0.000	0.000	0.000	0.000	
Salmonella	No/1l	11	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 698600 km2	2006
Distance from the mouth 375	Altitude: 31 m	BG05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s								
Temperature	°C	12	2.4	14.2	26.7	13.9	25.6		
Suspended solids	mg/l	12	6.0	30.5	88.0	27.0	43.6		
Dissolved oxygen	mg/l	12	4.9	8.5	11.7	8.3	6.2	II	
BOD (5)	mg/l	12	1.5	2.3	3.4	2.2	2.8	I	
COD (Mn)	mg/l	12	3.0	4.1	5.7	4.2	4.8	I	
COD (Cr)	mg/l	12	<	5.0	12.5	12.7	15.1	II	
TOC	mg/l								
DOC	mg/l	7	2.2	4.5	7.2	4.1			
pH	-	12	7.7	8.0	8.2	8.0	8.1	II	
							7.9	II	
Alkalinity - total	mmol/l	12	3.0	3.3	4.2	3.2	3.9		
Ammonium (NH4-N)	mg/l	12	<	0.050	0.067	0.113	0.060	0.085	I
Nitrite (NO2-N)	mg/l	12		0.008	0.016	0.032	0.015	0.024	II
Nitrate (NO3-N)	mg/l	12		1.040	1.638	2.420	1.570	1.926	II
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	12		0.032	0.065	0.093	0.065	0.091	II
Total phosphorus	mg/l	12		0.105	0.158	0.279	0.143	0.204	III
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	12		2.0	15.7	52.4	8.2	41.3	II
Conductivity	µS/cm	12		219	368	497	352	484	
Calcium (Ca++)	mg/l	12		47.2	55.1	64.9	56.2	61.8	
Sulphate (SO4--)	mg/l	12		33.6	39.0	46.9	38.4	45.9	
Magnesium (Mg++)	mg/l	12		11.4	13.7	15.8	13.3	15.8	
Potassium (K+)	mg/l	12		2.3	2.8	3.3	2.8	3.1	
Sodium (Na+)	mg/l	12		13.6	17.2	23.0	16.4	21.6	
Manganese (Mn)	mg/l	12		0.0010	0.0373	0.0850	0.0395	0.0675	
Iron (Fe)	mg/l	12		0.240	0.628	1.360	0.575	0.980	
Chloride (Cl-)	mg/l	12		19.5	25.0	31.6	24.9	29.6	
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l								
Copper (Cu), dissolved	µg/l								
Chromium (Cr), total dissolved	µg/l								
Lead (Pb), dissolved	µg/l								
Cadmium (Cd), dissolved	µg/l								
Mercury (Hg), dissolved	µg/l								
Nickel (Ni), dissolved	µg/l								
Arsenic (As), dissolved	µg/l								
Aluminium (Al), dissolved	µg/l								
Zinc (Zn)	µg/l	12	<	1.00	19.83	37.00	20.00	35.00	II
Copper (Cu)	µg/l	12	<	1.00	<	1.00	1.00	1.00	II
Chromium (Cr) - total	µg/l	12	<	10.00	<	10.00	10.00	10.00	II
Lead (Pb)	µg/l	12	<	1.00	<	1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	12	<	1.00	<	1.00	1.00	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	12	<	1.00	<	1.00	1.00	1.00	II
Arsenic (As)	µg/l								
Aluminium (Al)	µg/l	12	<	20.00	80.67	453.00	20.00	249.40	
Phenol index	mg/l								
Anionic active surfactants (PAL-A)	mg/l	12	<	0.050	<	0.050	0.050	0.050	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	5	<	0.100	0.139	0.297	0.100		
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	12		0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	12		0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l								
Chloroform	µg/l	7	<	0.02	<	0.02	0.02		I
Carbon tetrachloride	µg/l	7	<	0.02	<	0.02	0.02		I
Trichloroethylene	µg/l	7	<	0.02	<	0.02	0.02		I
Tetrachloroethylene	µg/l	7	<	0.02	<	0.02	0.02		I
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	11		13.000	43.909	133.000	33.000	73.000	
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	11		0.000	0.000	0.000	0.000	0.000	
Salmonella	No/1l	11		0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Jantra	Catchment: 6860 km2	2006
Distance from the mouth 12	Altitude: 22 m	BG07
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C							
Suspended solids	mg/l							
Dissolved oxygen	mg/l							
BOD (5)	mg/l							
COD (Mn)	mg/l							
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-							
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l							
Nitrite (NO2-N)	mg/l							
Nitrate (NO3-N)	mg/l							
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.2	6.0	19.5	3.9	15.6	I
Conductivity	µS/cm							
Calcium (Ca++)	mg/l							
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l							
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l							
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l							
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.000	2.049	9.459	0.676	5.108	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	0.510	2.973	0.270	0.811	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Russenski Lom	Catchment: 2800 km2	2006
Distance from the mouth 13	Altitude: 85 m	BG08
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	3.4	13.0	22.8	14.5	20.5	
Suspended solids	mg/l	12	32.0	344.2	1726.0	169.0	1033.0	
Dissolved oxygen	mg/l	12	4.8	7.8	10.3	7.8	5.0	IV
BOD (5)	mg/l	12	4.0	8.3	35.5	5.6	9.8	III
COD (Mn)	mg/l	12	5.5	12.7	36.0	8.7	27.6	IV
COD (Cr)	mg/l	12	16.4	41.6	108.0	31.5	70.0	IV
TOC	mg/l							
DOC	mg/l	7	1.6	5.5	14.1	4.6		
pH	-	12	7.9	8.1	8.3	8.1	8.3	II
							8.1	II
Alkalinity - total	mmol/l	12	5.1	7.1	8.6	7.1	8.1	
Ammonium (NH4-N)	mg/l	12	0.080	0.205	0.880	0.125	0.331	III
Nitrite (NO2-N)	mg/l	12	0.018	0.063	0.174	0.054	0.096	III
Nitrate (NO3-N)	mg/l	12	6.390	9.531	11.400	9.735	11.060	IV
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12	< 1.00	1.07	1.41	1.00	1.24	
Orthophosphate (PO4-P)	mg/l	12	0.100	0.217	0.370	0.190	0.316	IV
Total phosphorus	mg/l	12	0.260	0.638	1.880	0.480	0.998	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.6	15.8	30.5	15.3	30.1	II
Conductivity	µS/cm	12	376	681	906	729	870	
Calcium (Ca++)	mg/l	12	76.0	92.4	124.0	87.5	104.6	
Sulphate (SO4--)	mg/l	12	47.0	62.2	87.0	62.0	68.6	
Magnesium (Mg++)	mg/l	12	19.9	42.5	63.7	42.7	47.4	
Potassium (K+)	mg/l	12	5.0	6.1	7.6	6.0	7.0	
Sodium (Na+)	mg/l	12	15.6	25.0	30.9	26.0	29.8	
Manganese (Mn)	mg/l	12	0.0010	0.2234	0.8400	0.1300	0.6250	
Iron (Fe)	mg/l	12	0.970	3.374	17.000	1.740	5.840	
Chloride (Cl-)	mg/l	12	20.0	25.8	31.0	26.5	29.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	< 1.00	34.92	129.00	27.50	49.10	II
Copper (Cu)	µg/l	12	< 1.00	2.42	18.00	1.00	1.00	II
Chromium (Cr) - total	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	II
Lead (Pb)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Cadmium (Cd)	µg/l	12	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	4.08	38.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	12	< 20.00	35.42	132.00	20.00	49.30	
Phenol index	mg/l	1	0.0020	0.0020	0.0020			
Anionic active surfactants (PAL-A)	mg/l	12	< 0.050	< 0.050	: 0.050	0.050	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	< 0.100	< 0.100	: 0.100			
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0100	0.0100	0.0100	0.0100	0.0100	I
pp-DDT	µg/l	12	0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	12	< 0.010	0.021	0.076	0.012	0.056	II
Chloroform	µg/l	7	< 0.02	< 0.02	< 0.02	0.02		I
Carbon tetrachloride	µg/l	7	< 0.02	< 0.02	< 0.02	0.02		I
Trichloroethylene	µg/l	7	< 0.02	< 0.02	< 0.02	0.02		I
Tetrachloroethylene	µg/l	6	< 0.02	< 0.02	< 0.02	0.02		I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	38.000	103.167	230.000	87.500	166.600	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.000	0.163	0.600	0.103	0.391	
Salmonella	No/1l	12	0.0	0.0	0.0	0.0	0.0	

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Prut	Catchment: 8750 km2	2006
Distance from the mouth 658	Altitude: 14 m	MD01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s	12	18.6	68.8	188.0	44.7	122.0		
Temperature	°C	12	0.0	10.7	23.0	6.6	22.1		
Suspended solids	mg/l	12	< 1.0	128.4	550.0	75.0	271.0		
Dissolved oxygen	mg/l	12	6.5	8.4	10.0	8.8	6.6	II	
BOD (5)	mg/l	12	1.8	2.4	3.3	2.4	2.7	I	
COD (Mn)	mg/l								
COD (Cr)	mg/l	12	7.8	16.5	22.0	16.4	21.0	II	
TOC	mg/l								
DOC	mg/l								
pH	-	12	7.6	8.0	8.5	7.9	8.4	II	
							7.7	II	
Alkalinity - total	mmol/l	12	2.2	3.5	6.6	3.0	4.5		
Ammonium (NH4-N)	mg/l	12	<	0.020	0.198	0.540	0.140	0.375	III
Nitrite (NO2-N)	mg/l	12	<	0.005	0.028	0.127	0.020	0.036	II
Nitrate (NO3-N)	mg/l	12	<	0.100	1.714	8.110	1.090	3.323	III
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	12	<	0.005	0.024	0.071	0.015	0.052	II
Total phosphorus	mg/l								
Total phosphorus, dissolved	mg/l	12		0.008	0.064	0.124	0.062	0.111	
Chlorophyll A	µg/l	4	1.2	2.2	3.6	2.0			I
Conductivity	µS/cm	9	420	916	1720	860			
Calcium (Ca++)	mg/l	12	48.1	67.7	104.0	63.6		89.2	
Sulphate (SO4--)	mg/l	12	47.0	91.8	154.0	87.8		147.7	
Magnesium (Mg++)	mg/l	12	6.9	16.2	43.8	12.8		22.4	
Potassium (K+)	mg/l	4	6.0	7.1	8.0	7.1			
Sodium (Na+)	mg/l	4	22.2	48.6	80.0	46.0			
Manganese (Mn)	mg/l								
Iron (Fe)	mg/l								
Chloride (Cl-)	mg/l	12	17.7	32.2	49.7	32.0		47.6	
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l	12	<	3.00	3.37	6.30	3.00	3.79	II
Copper (Cu), dissolved	µg/l	12	<	3.00	3.02	3.29	3.00	3.00	**
Chromium (Cr), total dissolved	µg/l	11	<	3.00	<	3.00	<	3.00	**
Lead (Pb), dissolved	µg/l	12	<	3.00	<	3.00	<	3.00	**
Cadmium (Cd), dissolved	µg/l	12	<	0.50	<	0.50	<	0.50	**
Mercury (Hg), dissolved	µg/l								
Nickel (Ni), dissolved	µg/l	12	<	3.00	4.86	6.88	5.23	6.47	**
Arsenic (As), dissolved	µg/l								
Aluminium (Al), dissolved	µg/l								
Zinc (Zn)	µg/l	12	10.94	18.24	38.00	15.44	30.16		II
Copper (Cu)	µg/l	12	<	3.00	4.36	9.24	3.70	6.93	II
Chromium (Cr) - total	µg/l	12	<	3.00	7.52	17.16	6.77	10.18	II
Lead (Pb)	µg/l	12	<	3.00	<	3.00	<	3.00	II
Cadmium (Cd)	µg/l	12	<	0.50	<	0.50	<	0.50	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	12	5.25	25.17	78.78	18.69	43.88		II
Arsenic (As)	µg/l								
Aluminium (Al)	µg/l								
Phenol index	mg/l	12	0.0010	0.0020	0.0080	0.0010	0.0047		
Anionic active surfactants (PAL-A)	mg/l	12	<	0.010	0.036	0.060	0.040	0.058	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	12	0.030	0.080	0.170	0.065	0.120		
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020				I
pp-DDT	µg/l	2	0.0500	0.0500	0.0500				**
Atrazine	µg/l								
Chloroform	µg/l								
Carbon tetrachloride	µg/l								
Trichloroethylene	µg/l								
Tetrachloroethylene	µg/l								
Macrozoobenthos sapr. index	-	4	1.54	2.21	2.55	2.38			III
Macrozoobenthos no. of taxa	-	3	2	4	5				
Total coliforms (37 C)	1000CFU/100m	4	0.500	7.375	26.000	1.500			
Faecal coliforms (44 C)	1000CFU/100m	4	0.000	1.525	5.000	0.550			
Faecal streptococci	1000CFU/100m								
Salmonella	No/1l								

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class



River: /Prut	Catchment: 27480 km2	2006
Distance from the mouth 0	Altitude: 5 m	MD03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	48.3	167.5	539.0	113.4	386.6	
Temperature	°C	12	0.2	14.4	28.0	12.5	26.5	
Suspended solids	mg/l	12	10.0	116.7	390.0	85.0	294.0	
Dissolved oxygen	mg/l	12	3.8	7.4	10.2	7.6	4.8	IV
BOD (5)	mg/l	12	1.7	2.5	3.9	2.3	3.3	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	12	9.6	16.4	30.4	14.6	29.1	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.6	8.1	8.7	8.1	8.5	III
							7.8	II
Alkalinity - total	mmol/l	12	3.1	3.9	5.2	3.7	4.9	
Ammonium (NH4-N)	mg/l	12	0.070	0.245	0.420	0.225	0.377	III
Nitrite (NO2-N)	mg/l	12 <	0.005	0.016	0.026	0.017	0.024	II
Nitrate (NO3-N)	mg/l	12	0.370	1.260	3.460	0.955	2.573	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12 <	0.005	0.030	0.079	0.020	0.060	II
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	12 <	0.005	0.098	0.288	0.064	0.270	
Chlorophyll A	µg/l	4	2.4	4.1	7.1	3.4		I
Conductivity	µS/cm	10	444	841	1420	765		
Calcium (Ca++)	mg/l	12	47.1	60.8	92.2	59.1	66.4	
Sulphate (SO4--)	mg/l	12	47.0	112.4	185.0	111.2	164.0	
Magnesium (Mg++)	mg/l	12	9.4	21.0	36.5	17.5	30.8	
Potassium (K+)	mg/l	4	4.0	6.4	8.0	6.8		
Sodium (Na+)	mg/l	4	24.8	61.1	77.6	71.0		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	19.5	32.8	49.7	30.2	45.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	3.00	3.00	3.00	3.00	3.00	II
Copper (Cu), dissolved	µg/l	12 <	3.00	3.11	4.27	3.00	3.00	**
Chromium (Cr), total dissolved	µg/l	12 <	3.00	4.19	14.56	3.00	4.45	**
Lead (Pb), dissolved	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12 <	0.50 <	0.50 <	0.50 <	0.50	0.50	**
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	12	3.05	5.04	7.10	5.11	5.99	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	9.34	15.09	24.84	14.37	21.66	II
Copper (Cu)	µg/l	12 <	3.00	4.56	7.59	4.29	5.79	II
Chromium (Cr) - total	µg/l	12 <	3.00	8.78	18.50	8.19	15.86	II
Lead (Pb)	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	II
Cadmium (Cd)	µg/l	12 <	0.50 <	0.50 <	0.50 <	0.50	0.50	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	5.97	28.84	64.68	18.51	56.42	III
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0018	0.0070	0.0010	0.0038	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.035	0.050	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.000	0.071	0.130	0.070	0.108	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	2	0.0500	0.0500	0.0500			**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	3	1.20	1.80	2.20			II
Macrozoobenthos no. of taxa	-	3	2	2	3			
Total coliforms (37 C)	1000CFU/100m	5	0.800	5.760	11.000	7.000		
Faecal coliforms (44 C)	1000CFU/100m	5	0.000	0.820	3.000	0.100		
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Prut	Catchment: 23400 km2	2006
Distance from the mouth 216	Altitude: 14 m	MD04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	46.9	140.9	327.0	116.7	279.7	
Temperature	°C	12	0.2	13.3	25.6	12.1	24.3	
Suspended solids	mg/l	12	10.0	137.5	380.0	145.0	217.0	
Dissolved oxygen	mg/l	12	5.5	7.6	10.5	7.4	5.9	III
BOD (5)	mg/l	12	1.8	2.6	3.8	2.6	3.1	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	12	14.5	20.7	32.6	20.7	26.4	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	7.9	8.7	7.9	8.3	II
							7.5	II
Alkalinity - total	mmol/l	12	3.2	4.2	5.4	4.1	5.1	
Ammonium (NH4-N)	mg/l	12 <	0.020	0.352	0.990	0.270	0.583	III
Nitrite (NO2-N)	mg/l	12 <	0.005	0.066	0.405	0.022	0.170	II
Nitrate (NO3-N)	mg/l	12 <	0.100	1.783	4.920	1.135	4.587	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.011	0.042	0.148	0.036	0.067	II
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	12	0.048	0.091	0.174	0.080	0.165	
Chlorophyll A	µg/l	4	3.6	5.5	9.5	4.4		I
Conductivity	µS/cm	10	468	950	1999	802		
Calcium (Ca++)	mg/l	12	50.1	62.4	80.2	61.0	74.1	
Sulphate (SO4--)	mg/l	12	71.4	127.6	202.0	135.0	167.2	
Magnesium (Mg++)	mg/l	12	11.7	26.6	45.0	26.0	41.0	
Potassium (K+)	mg/l	4	6.8	8.1	9.0	8.2		
Sodium (Na+)	mg/l	4	55.6	72.1	83.0	74.8		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	21.3	33.1	46.1	36.4	43.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	3.00	3.02	3.25	3.00	3.00	II
Copper (Cu), dissolved	µg/l	12 <	3.00	3.00	3.00	3.00	3.00	**
Chromium (Cr), total dissolved	µg/l	12 <	3.00	3.22	4.14	3.00	3.94	**
Lead (Pb), dissolved	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	**
Cadmium (Cd), dissolved	µg/l	12 <	0.50 <	0.50 <	0.50 <	0.50	0.50	**
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	12	3.00	5.57	9.20	5.19	7.92	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	9.82	16.26	30.32	15.86	19.07	II
Copper (Cu)	µg/l	12 <	3.00	5.09	7.43	4.95	6.93	II
Chromium (Cr) - total	µg/l	12 <	3.00	9.42	27.65	7.74	15.24	II
Lead (Pb)	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	II
Cadmium (Cd)	µg/l	12 <	0.50 <	0.50 <	0.50 <	0.50	0.50	II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	6.00	29.44	83.24	20.31	57.89	III
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0019	0.0070	0.0010	0.0038	
Anionic active surfactants (PAL-A)	mg/l	12	0.020	0.045	0.070	0.045	0.060	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.000	0.083	0.160	0.070	0.138	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0020	0.0020	0.0020			I
pp-DDT	µg/l	3	0.0500	0.0500	0.0500			**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	2	1.20	1.48	1.75			I
Macrozoobenthos no. of taxa	-	2	2	3	3			
Total coliforms (37 C)	1000CFU/100m	9	2.000	12.422	31.000	11.000		
Faecal coliforms (44 C)	1000CFU/100m	9	1.000	3.600	6.500	4.500		
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 805700 km2	2006
Distance from the mouth 132	Altitude: 1 m	UA01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	11	3960.0	8258.2	13700.0	5750.0	13500.0	
Temperature	°C	11	0.4	14.9	24.6	18.6	24.1	
Suspended solids	mg/l	11	45.0	95.3	191.0	79.2	144.0	
Dissolved oxygen	mg/l	11	7.8	9.4	11.8	9.1	8.0	I
BOD (5)	mg/l	11	1.4	2.4	3.5	2.2	3.3	II
COD (Mn)	mg/l	11	3.2	4.2	5.5	4.2	4.9	I
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.9	8.0	8.2	8.0	8.1	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	11 <	0.039	0.101	0.290	0.040	0.270	II
Nitrite (NO2-N)	mg/l	11 <	0.020	0.032	0.056	0.023	0.050	II
Nitrate (NO3-N)	mg/l	11	0.860	1.336	2.170	1.200	1.800	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.013	0.059	0.143	0.048	0.100	II
Total phosphorus	mg/l	11	0.039	0.102	0.206	0.102	0.149	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l	11	39.6	55.7	79.1	54.8	65.7	
Sulphate (SO4--)	mg/l	11	46.9	59.1	77.3	59.4	67.6	
Magnesium (Mg++)	mg/l	11	10.6	16.1	24.9	15.0	19.3	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l	11	17.0	41.0	57.8	40.0	54.0	
Manganese (Mn)	mg/l	9	0.0038	0.0132	0.0322	0.0104		
Iron (Fe)	mg/l	9	0.020	0.109	0.300	0.080		
Chloride (Cl-)	mg/l	11	27.7	37.5	55.4	34.7	47.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	9	3.10	10.89	23.50	6.20		II
Copper (Cu)	µg/l	9	3.80	7.59	10.80	8.00		II
Chromium (Cr) - total	µg/l	11 <	0.00	5.69	14.80	2.70	12.70	II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0020	0.0029	0.0040	0.0030	0.0040	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.042	0.230	0.020	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.050	0.050	0.050	0.050	0.050	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: Danube	Catchment: 817000 km2	2006
Distance from the mouth 18	Altitude: 35 m	UA02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	357.0	1033.5	1970.0	840.0	1806.0	
Temperature	°C	7	5.4	18.0	24.6	19.8		
Suspended solids	mg/l	7	51.1	138.2	234.0	129.0		
Dissolved oxygen	mg/l	7	6.9	8.3	11.1	7.9		II
BOD (5)	mg/l	7	1.5	2.4	3.3	2.5		II
COD (Mn)	mg/l	7	3.6	4.8	6.0	4.8		II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	7	7.9	8.0	8.2	8.0		II
Alkalinity - total	mmol/l							II
Ammonium (NH4-N)	mg/l	7 <	0.039	0.101	0.260	0.060		II
Nitrite (NO2-N)	mg/l	7 <	0.020	0.030	0.051	0.027		II
Nitrate (NO3-N)	mg/l	7	0.690	1.243	2.120	1.060		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	7	0.010	0.043	0.112	0.044		III
Total phosphorus	mg/l	7	0.058	0.120	0.210	0.121		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l	7	38.9	50.9	54.8	52.1		
Sulphate (SO4--)	mg/l	7	48.3	54.2	64.0	54.9		
Magnesium (Mg++)	mg/l	7	8.8	13.2	18.8	12.5		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l	7	21.8	45.3	63.2	46.8		
Manganese (Mn)	mg/l	3	0.0038	0.0144	0.0286			
Iron (Fe)	mg/l	3	0.060	0.233	0.420			
Chloride (Cl-)	mg/l	7	25.9	30.9	37.4	28.6		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l							
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l							
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	3	1.30	10.90	21.90			II
Copper (Cu)	µg/l	3	8.10	9.30	9.90			II
Chromium (Cr) - total	µg/l	7 <	0.00	4.99	9.50	7.00		II
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	7	0.0010	0.0031	0.0040	0.0030		
Anionic active surfactants (PAL-A)	mg/l	7 <	0.010	0.016	0.040	0.010		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6 <	0.050 <	0.050 :	0.050	0.050		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m							
Salmonella	No/1l							

\* in case of dissolved oxygen and the lower pH value C10 was calculated

\*\* not classified because the limit of detection is higher than limit of II. quality class

River: /Sava/Drina	Catchment:	0 km2	2006
Distance from the mouth 0	Altitude:	0 m	RS18
Location: Right			

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	17	3.0	12.7	20.5	13.0	19.7	
Suspended solids	mg/l	17	< 1.0	13.7	105.0	7.0	21.8	
Dissolved oxygen	mg/l	17	< 9.5	11.1	13.8	10.8	9.7	I
BOD (5)	mg/l	17	< 0.2	0.7	1.8	0.2	1.4	I
COD (Mn)	mg/l	17	< 0.9	1.4	2.8	1.2	1.9	I
COD (Cr)	mg/l	2	< 3.5	< 3.5	< 3.5			I
TOC	mg/l	16	< 0.5	1.1	2.6	1.0	1.9	
DOC	mg/l							
pH	-	17	7.9	8.2	8.4	8.3	8.4	II
							8.1	II
Alkalinity - total	mmol/l	17	2.8	3.0	3.4	3.1	3.3	
Ammonium (NH4-N)	mg/l	17	< 0.010	0.029	0.180	0.010	0.090	I
Nitrite (NO2-N)	mg/l	17	< 0.003	0.005	0.040	0.003	0.003	I
Nitrate (NO3-N)	mg/l	17	0.050	0.435	1.120	0.350	0.744	I
Total nitrogen	mg/l	17	0.43	0.80	2.06	0.57	1.39	I
Organic nitrogen	mg/l	17	< 0.10	0.34	1.12	0.20	0.77	
Orthophosphate (PO4-P)	mg/l	17	< 0.005	0.010	0.017	0.010	0.014	I
Total phosphorus	mg/l	17	0.009	0.027	0.052	0.027	0.043	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	17	280	311	340	310	330	
Calcium (Ca++)	mg/l	17	46.1	54.3	59.8	55.1	59.1	
Sulphate (SO4--)	mg/l	17	6.0	10.9	17.0	10.0	14.2	
Magnesium (Mg++)	mg/l	17	2.5	9.1	14.4	9.4	12.7	
Potassium (K+)	mg/l	17	0.1	0.4	0.6	0.5	0.6	
Sodium (Na+)	mg/l	17	3.0	4.3	6.3	4.3	5.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	17	< 1.0	2.3	4.4	2.1	3.4	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	5	< 1.00	11.00	25.00	7.00		III
Copper (Cu), dissolved	µg/l	16	< 1.00	9.13	50.00	1.50	27.00	III
Chromium (Cr), total dissolved	µg/l	16	< 1.00	< 1.00	< 1.00	1.00	1.00	II
Lead (Pb), dissolved	µg/l	15	< 1.00	1.33	5.00	1.00	1.60	III
Cadmium (Cd), dissolved	µg/l	16	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	15	< 0.100	0.127	0.300	0.100	0.200	III
Nickel (Ni), dissolved	µg/l	16	< 1.00	1.81	7.00	1.00	4.50	III
Arsenic (As), dissolved	µg/l	16	< 1.00	1.38	3.00	1.00	2.00	III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l							
Copper (Cu)	µg/l							
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l							
Cadmium (Cd)	µg/l							
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l							
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	17	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	17	< 0.010	< 0.010	: 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	< 0.005	< 0.005	: 0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	9	0.0020	0.0022	0.0040	0.0020		II
Atrazine	µg/l	9	< 0.009	< 0.009	: 0.009	0.009		I
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m							
Faecal coliforms (44 C)	1000CFU/100m							
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