

River: Danube	Catchment: 8107 km2	2005
Distance from the mouth 2581	Altitude: 460 m	D01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	58.4	167.0	906.0	135.6	274.7	
Temperature	°C	25	1.8	10.4	19.7	10.4	17.7	
Suspended solids	mg/l	25	<	3.0	8.4	41.0	6.0	18.4
Dissolved oxygen	mg/l	25	<	7.8	10.6	13.5	10.8	8.3
BOD (5)	mg/l	25	<	1.0	1.3	2.7	1.1	1.6
COD (Mn)	mg/l	25		1.6	2.8	5.6	2.6	3.8
COD (Cr)	mg/l	11		5.0	10.8	21.0	10.0	13.0
TOC	mg/l	25		2.1	3.6	7.7	3.4	4.9
DOC	mg/l							
pH	-	25		7.9	8.1	8.3	8.1	8.2
							8.0	
Alkalinity - total	mmol/l	3		3.4	4.3	5.1		
Ammonium (NH4-N)	mg/l	25	<	0.020	0.076	0.240	0.050	0.164
Nitrite (NO2-N)	mg/l	11		0.015	0.022	0.039	0.020	0.027
Nitrate (NO3-N)	mg/l	25		2.200	3.392	4.700	3.400	4.020
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	25		0.020	0.045	0.066	0.046	0.060
Total phosphorus	mg/l	25		0.064	0.089	0.210	0.080	0.110
Total phosphorus, dissolved	mg/l	11		0.035	0.050	0.068	0.049	0.063
Chlorophyll A	µg/l	13		1.0	7.2	19.0	6.0	16.4
Conductivity	µS/cm	25		420	515	610	497	596
Calcium (Ca++)	mg/l	3		73.0	86.7	101.0		
Sulphate (SO4--)	mg/l	3		15.0	17.3	20.0		
Magnesium (Mg++)	mg/l	3		7.0	11.3	14.0		
Potassium (K+)	mg/l	3		2.1	2.5	3.0		
Sodium (Na+)	mg/l	3		10.9	15.4	19.2		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	25		19.0	29.3	53.0	27.0	42.0
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	2	<	10.00	<	10.00		
Copper (Cu), dissolved	µg/l	2	<	1.00		3.00		5.00
Chromium (Cr), total dissolved	µg/l	2	<	1.00	<	1.00		1.00
Lead (Pb), dissolved	µg/l	2	<	1.00	<	1.00		1.00
Cadmium (Cd), dissolved	µg/l	2	<	0.10	<	0.10		0.10
Mercury (Hg), dissolved	µg/l	2	<	0.100	<	0.100		0.100
Nickel (Ni), dissolved	µg/l	2	<	1.00		2.50		4.00
Arsenic (As), dissolved	µg/l	2	<	1.00	<	1.00		1.00
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	25	<	10.00	<	10.00	10.00	10.00
Copper (Cu)	µg/l	25	<	1.00		1.76	6.00	1.00
Chromium (Cr) - total	µg/l	24	<	1.00	<	1.00	1.00	1.00
Lead (Pb)	µg/l	25	<	1.00		1.04	2.00	1.00
Cadmium (Cd)	µg/l	25	<	0.10		0.10	0.10	0.10
Mercury (Hg)	µg/l	25	<	0.100	<	0.100	0.100	0.100
Nickel (Ni)	µg/l	25	<	1.00	<	1.00	1.00	1.00
Arsenic (As)	µg/l	25	<	1.00		1.00	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
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	17	<	0.010		0.011	0.020	0.010
Chloroform	µg/l	13	<	0.01		0.02	0.04	0.02
Carbon tetrachloride	µg/l	13	<	0.01		0.01	0.03	0.01
Trichloroethylene	µg/l	13	<	0.01		0.04	0.07	0.04
Tetrachloroethylene	µg/l	13	<	0.01		0.10	0.20	0.10
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: 77086 km2	2005
Distance from the mouth 2204	Altitude: 290 m	D02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	304	683.1	1479.1	5167.9	1344.2	2187.0	
Temperature	°C	26	0.8	10.2	19.1	10.7	17.8	
Suspended solids	mg/l	26	3.0	48.4	560.0	15.5	85.5	
Dissolved oxygen	mg/l	26	8.7	11.0	13.0	11.1	9.1	I
BOD (5)	mg/l	24	1.0	2.4	4.8	2.3	3.4	II
COD (Mn)	mg/l	12	1.2	2.0	2.6	2.0	2.4	I
COD (Cr)	mg/l	12	< 5.0	7.8	10.0	8.0	9.0	I
TOC	mg/l	26	1.6	3.2	9.8	2.5	5.1	
DOC	mg/l	12	1.5	2.1	2.7	2.1	2.4	
pH	-	26	7.8	8.0	8.4	8.0	8.1	II
							7.9	II
Alkalinity - total	mmol/l	12	2.6	3.1	3.6	3.1	3.4	
Ammonium (NH4-N)	mg/l	26	0.040	0.098	0.210	0.090	0.150	I
Nitrite (NO2-N)	mg/l	27	0.005	0.013	0.027	0.010	0.022	II
Nitrate (NO3-N)	mg/l	26	0.840	2.117	4.400	2.100	3.100	III
Total nitrogen	mg/l	18	1.30	2.74	4.40	2.75	3.70	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26	< 0.005	0.028	0.067	0.028	0.044	I
Total phosphorus	mg/l	26	0.035	0.094	0.530	0.064	0.145	II
Total phosphorus, dissolved	mg/l	11	0.010	0.033	0.053	0.033	0.042	
Chlorophyll A	µg/l	17	2.0	15.1	78.0	12.0	22.8	I
Conductivity	µS/cm	26	256	370	480	365	445	
Calcium (Ca++)	mg/l	12	43.4	59.3	69.2	62.2	66.2	
Sulphate (SO4--)	mg/l	12	22.0	27.7	32.0	27.5	30.0	
Magnesium (Mg++)	mg/l	12	11.2	13.7	15.4	13.5	15.3	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0090	0.0237	0.0470	0.0210	0.0348	
Iron (Fe)	mg/l	12	0.080	0.355	1.300	0.190	0.560	
Chloride (Cl-)	mg/l	26	7.0	18.5	34.0	17.0	27.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	3	< 10.00	10.00	10.00			**
Copper (Cu), dissolved	µg/l	3	1.00	2.67	5.00			III
Chromium (Cr), total dissolved	µg/l	3	< 1.00	1.33	2.00			II
Lead (Pb), dissolved	µg/l	3	< 1.00	1.33	2.00			III
Cadmium (Cd), dissolved	µg/l	3	< 0.10	< 0.10	< 0.10			II
Mercury (Hg), dissolved	µg/l	3	< 0.100	0.133	0.200			III
Nickel (Ni), dissolved	µg/l	3	< 1.00	1.67	3.00			III
Arsenic (As), dissolved	µg/l	3	< 1.00	1.33	2.00			III
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	25	< 10.00	12.80	40.00	10.00	22.00	II
Copper (Cu)	µg/l	25	1.00	2.80	15.00	2.00	4.00	II
Chromium (Cr) - total	µg/l	25	< 1.00	1.20	3.00	1.00	2.00	II
Lead (Pb)	µg/l	25	< 1.00	1.52	9.00	1.00	2.00	II
Cadmium (Cd)	µg/l	25	< 0.10	0.11	0.30	0.10	0.10	II
Mercury (Hg)	µg/l	25	< 0.100	0.144	0.300	0.100	0.200	III
Nickel (Ni)	µg/l	25	< 1.00	1.60	6.00	1.00	2.60	II
Arsenic (As)	µg/l	25	< 1.00	1.24	4.00	1.00	2.00	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0200	0.0200	0.0200	0.0200	0.0200	
Anionic active surfactants (PAL-A)	mg/l	11	< 0.100	0.126	0.250	0.110	0.140	
AOX	µg/l	12	< 10.00	< 10.00	< 10.00	10.00	10.00	I
Petroleum hydrocarbons	mg/l	12	< 0.200	< 0.200	: 0.200	0.200	0.200	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l	17	< 0.010	0.010	0.010	0.010	0.010	I
Chloroform	µg/l	13	< 0.01	0.01	0.02	0.01	0.02	I
Carbon tetrachloride	µg/l	13	< 0.01	0.01	0.03	0.01	0.01	I
Trichloroethylene	µg/l	13	< 0.01	0.07	0.10	0.08	0.10	II
Tetrachloroethylene	µg/l	13	< 0.01	0.10	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	2005
Distance from the mouth 195	Altitude: 452 m	D03
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	25	0.6	8.2	14.2	8.5	13.4	
Suspended solids	mg/l	23	< 3.0	36.5	193.0	11.0	123.2	
Dissolved oxygen	mg/l	25	8.1	10.0	13.3	9.4	8.5	I
BOD (5)	mg/l	24	< 1.0	1.2	3.1	1.0	1.6	I
COD (Mn)	mg/l	1	0.7	0.7	0.7			I
COD (Cr)	mg/l	2	< 5.0	< 5.0	< 5.0			I
TOC	mg/l	25	0.9	1.7	4.5	1.6	2.5	
DOC	mg/l							
pH	-	25	7.5	8.1	8.4	8.2	8.3	II
							7.7	II
Alkalinity - total	mmol/l	12	0.8	1.9	2.8	1.9	2.6	
Ammonium (NH4-N)	mg/l	24	< 0.020	0.036	0.110	0.030	0.060	I
Nitrite (NO2-N)	mg/l	2	< 0.005	0.006	0.007			I
Nitrate (NO3-N)	mg/l	24	0.390	0.607	0.900	0.600	0.770	I
Total nitrogen	mg/l	5	0.70	0.86	1.20	0.70		I
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	< 0.005	0.008	0.016	0.007	0.014	I
Total phosphorus	mg/l	25	0.021	0.067	0.331	0.045	0.143	II
Total phosphorus, dissolved	mg/l	11	0.008	0.015	0.019	0.015	0.019	
Chlorophyll A	µg/l							
Conductivity	µS/cm	25	135	233	344	241	281	
Calcium (Ca++)	mg/l	11	27.0	35.7	44.0	37.0	42.0	
Sulphate (SO4--)	mg/l	11	15.0	29.9	52.0	28.0	43.0	
Magnesium (Mg++)	mg/l	10	7.3	9.6	12.0	9.4		
Potassium (K+)	mg/l	10	1.2	1.6	2.4	1.6		
Sodium (Na+)	mg/l	11	1.8	4.8	8.8	3.9	7.4	
Manganese (Mn)	mg/l	24	0.0020	0.0197	0.0950	0.0100	0.0551	
Iron (Fe)	mg/l	24	< 0.010	3.167	61.000	0.190	1.410	
Chloride (Cl-)	mg/l	25	2.0	5.8	14.0	5.0	9.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	1	2.00	2.00	2.00			II
Chromium (Cr), total dissolved	µg/l	1	< 1.00	< 1.00	< 1.00			II
Lead (Pb), dissolved	µg/l	1	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd), dissolved	µg/l	1	< 0.10	< 0.10	< 0.10			II
Mercury (Hg), dissolved	µg/l	1	< 0.100	< 0.100	< 0.100			II
Nickel (Ni), dissolved	µg/l	1	1.00	1.00	1.00			II
Arsenic (As), dissolved	µg/l	1	1.00	1.00	1.00			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	24	< 10.00	25.00	90.00	20.00	50.00	II
Copper (Cu)	µg/l	25	1.00	18.76	69.00	13.00	52.60	IV
Chromium (Cr) - total	µg/l	25	< 1.00	1.60	10.00	1.00	2.00	II
Lead (Pb)	µg/l	25	< 1.00	3.48	21.00	2.00	8.20	III
Cadmium (Cd)	µg/l	25	< 0.10	0.18	1.30	0.10	0.20	II
Mercury (Hg)	µg/l	24	< 0.100	0.142	0.400	0.100	0.270	IV
Nickel (Ni)	µg/l	25	1.00	7.92	70.00	3.00	19.20	II
Arsenic (As)	µg/l	25	< 1.00	1.84	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	2	< 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	12	< 0.01	0.02	0.10	0.01	0.02	I
Carbon tetrachloride	µg/l	12	< 0.01	0.03	0.10	0.02	0.04	II
Trichloroethylene	µg/l	12	< 0.01	0.01	0.02	0.01	0.02	I
Tetrachloroethylene	µg/l	12	< 0.01	0.03	0.07	0.02	0.06	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: 390 m
 2005
 D04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	71.3	264.9	1709.7	236.7	463.4	
Temperature	°C	26	1.1	7.4	12.7	8.7	12.1	
Suspended solids	mg/l	24	< 3.0	38.8	576.0	7.5	48.7	
Dissolved oxygen	mg/l	26	9.7	11.3	13.2	11.0	9.9	I
BOD (5)	mg/l	26	< 1.0	2.1	3.2	2.3	3.0	I
COD (Mn)	mg/l	13	1.2	2.5	5.5	2.3	3.6	I
COD (Cr)	mg/l							
TOC	mg/l	26	1.3	2.3	11.0	1.9	2.8	
DOC	mg/l	13	1.2	1.8	4.4	1.7	2.0	
pH	-	26	7.6	8.1	8.4	8.1	8.2	II
							7.7	II
Alkalinity - total	mmol/l	13	1.7	2.6	3.2	2.6	3.1	
Ammonium (NH4-N)	mg/l	26	< 0.020	0.034	0.100	0.025	0.060	I
Nitrite (NO2-N)	mg/l	26	< 0.005	0.011	0.123	0.006	0.011	II
Nitrate (NO3-N)	mg/l	26	0.370	0.678	1.300	0.605	0.920	I
Total nitrogen	mg/l	26	0.40	0.80	1.50	0.75	1.10	I
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	26	< 0.005	0.010	0.024	0.009	0.017	I
Total phosphorus	mg/l	26	0.017	0.036	0.104	0.027	0.072	I
Total phosphorus, dissolved	mg/l	26	0.005	0.012	0.026	0.011	0.020	
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	169	283	360	281	360	
Calcium (Ca++)	mg/l	13	28.1	42.0	50.9	43.8	48.6	
Sulphate (SO4--)	mg/l	13	9.4	21.2	34.0	21.0	30.8	
Magnesium (Mg++)	mg/l	13	5.3	9.5	11.9	10.2	11.6	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	26	0.0100	0.0454	0.4500	0.0205	0.0705	
Iron (Fe)	mg/l	26	0.070	0.877	10.000	0.210	1.900	
Chloride (Cl-)	mg/l	26	2.3	9.3	19.0	7.9	17.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	2	10.00	25.00	40.00			II
Copper (Cu), dissolved	µg/l	2	1.00	1.50	2.00			II
Chromium (Cr), total dissolved	µg/l	2	< 1.00	1.00	1.00			II
Lead (Pb), dissolved	µg/l	2	< 1.00	< 1.00	< 1.00			II
Cadmium (Cd), dissolved	µg/l	2	< 0.10	< 0.10	< 0.10			II
Mercury (Hg), dissolved	µg/l	2	< 0.100	< 0.100	0.100			II
Nickel (Ni), dissolved	µg/l	2	1.00	1.00	1.00			II
Arsenic (As), dissolved	µg/l	2	< 1.00	1.00	1.00			II
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	26	< 10.00	11.15	40.00	10.00	10.00	II
Copper (Cu)	µg/l	26	1.00	5.08	64.00	2.00	4.50	II
Chromium (Cr) - total	µg/l	26	1.00	2.12	12.00	1.00	3.00	II
Lead (Pb)	µg/l	26	< 1.00	1.92	17.00	1.00	2.50	II
Cadmium (Cd)	µg/l	26	< 0.10	0.11	0.30	0.10	0.10	II
Mercury (Hg)	µg/l	26	< 0.100	0.188	0.700	0.100	0.350	IV
Nickel (Ni)	µg/l	26	1.00	2.58	21.00	1.00	4.50	II
Arsenic (As)	µg/l	26	< 1.00	1.46	9.00	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 (gamma-HCH)	µg/l							
pp-DDT	µg/l							
Atrazine	µg/l							
Chloroform	µg/l	13	< 0.01	0.01	0.01	0.01	0.01	I
Carbon tetrachloride	µg/l	13	< 0.01	0.01	0.01	0.01	0.01	I
Trichloroethylene	µg/l	13	< 0.01	0.01	0.02	0.01	0.02	I
Tetrachloroethylene	µg/l	13	< 0.01	0.02	0.04	0.02	0.03	II
Macrozoobenthos sapr. index	-	1	1.61	1.61	1.61			I
Macrozoobenthos no. of taxa	-	1	24	24	24			
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: 290 m
 2005
 A01

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	562.0	1401.6	4721.0	1134.0	2465.6	
Temperature	°C	12	0.7	9.2	17.2	9.9	15.9	
Suspended solids	mg/l	12	< 0.5	101.7	1116.0	6.9	26.2	
Dissolved oxygen	mg/l	12	8.6	10.9	12.9	10.9	8.9	I
BOD (5)	mg/l	12	0.8	1.6	2.9	1.2	2.5	I
COD (Mn)	mg/l	12	1.7	3.3	5.7	3.2	5.5	II
COD (Cr)	mg/l	12	4.1	7.5	24.9	5.8	8.9	I
TOC	mg/l	12	0.7	2.2	3.3	2.2	3.2	
DOC	mg/l	12	0.7	1.9	2.5	2.0	2.5	
pH	-	12	8.0	8.2	8.4	8.3	8.3	II
							8.1	II
Alkalinity - total	mmol/l	12	2.7	3.2	3.6	3.3	3.5	
Ammonium (NH4-N)	mg/l	12	< 0.004	0.035	0.085	0.033	0.071	I
Nitrite (NO2-N)	mg/l	12	0.006	0.012	0.021	0.011	0.021	II
Nitrate (NO3-N)	mg/l	12	1.090	2.283	3.210	2.315	3.189	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	< 0.003	0.030	0.044	0.029	0.043	I
Total phosphorus	mg/l	12	0.023	0.050	0.080	0.049	0.064	I
Total phosphorus, dissolved	mg/l	12	0.011	0.038	0.061	0.034	0.054	
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	270	390	466	392	456	
Calcium (Ca++)	mg/l	12	42.8	54.4	60.8	56.3	59.8	
Sulphate (SO4--)	mg/l	12	16.7	26.4	33.6	25.1	32.8	
Magnesium (Mg++)	mg/l	12	9.0	12.6	14.9	12.6	14.5	
Potassium (K+)	mg/l	12	1.3	2.1	2.8	2.1	2.6	
Sodium (Na+)	mg/l	12	3.8	10.4	17.5	9.3	15.9	
Manganese (Mn)	mg/l	12	0.0060	0.0917	0.8870	0.0170	0.0477	
Iron (Fe)	mg/l	12	0.110	1.088	9.860	0.175	1.108	
Chloride (Cl-)	mg/l	12	7.9	19.3	31.5	17.3	29.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	1.10	2.23	3.00	2.40	3.00	II
Copper (Cu), dissolved	µg/l	12	1.00	1.31	1.80	1.25	1.50	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	0.74	1.20	0.70	0.70	II
Arsenic (As), dissolved	µg/l	12	< 0.70	0.80	1.90	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12	< 7.00	15.42	64.00	9.00	20.80	
Zinc (Zn)	µg/l	12	1.80	12.84	73.00	3.55	42.06	II
Copper (Cu)	µg/l	12	1.20	4.44	29.70	1.60	6.35	II
Chromium (Cr) - total	µg/l	12	< 0.60	1.23	7.50	0.60	1.23	II
Lead (Pb)	µg/l	12	< 0.80	3.21	29.50	0.80	0.98	II
Cadmium (Cd)	µg/l	12	< 0.10	0.16	0.60	0.10	0.28	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 0.70	2.47	17.40	0.70	2.26	II
Arsenic (As)	µg/l	12	< 0.70	1.73	7.60	0.70	3.45	II
Aluminium (Al)	µg/l	12	61.00	422.25	3570.00	89.00	458.10	
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	0.032	0.090	0.034	0.058	
AOX	µg/l	12	5.92	9.57	17.80	9.34	12.11	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	0.05	0.04	0.04	II
Tetrachloroethylene	µg/l	12	< 0.04	0.09	0.44	0.05	0.09	II
Macrozoobenthos sapr. index	-	1	2.20	2.20	2.20			II
Macrozoobenthos no. of taxa	-	1	42	42	42			
Total coliforms (37 C)	1000CFU/100m	12	0.240	2.180	7.950	1.233	5.855	
Faecal coliforms (44 C)	1000CFU/100m	12	0.070	0.449	1.140	0.375	0.744	
Faecal streptococci	1000CFU/100m	12	0.010	0.058	0.244	0.032	0.114	
Salmonella	No/1l	12	0.0	0.2	1.0	0.0	0.9	

* 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 2120
 Location: Right

Catchment: 83992 km2
 Altitude: 251 m
 2005
 A02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	628.0	1569.4	5805.0	1269.0	2690.8	
Temperature	°C	12	1.4	10.0	18.3	10.5	17.0	
Suspended solids	mg/l	12	3.0	134.1	1413.0	11.9	88.9	
Dissolved oxygen	mg/l	12	9.3	11.4	13.1	11.2	9.6	I
BOD (5)	mg/l	12	0.8	1.6	2.9	1.5	2.5	I
COD (Mn)	mg/l	12	1.5	3.2	5.0	2.9	4.6	I
COD (Cr)	mg/l	12	3.9	7.2	20.3	5.9	9.6	I
TOC	mg/l	12	1.3	2.3	3.5	2.4	3.1	
DOC	mg/l	12	0.9	2.0	3.0	2.1	2.8	
pH	-	12	7.9	8.3	8.4	8.3	8.4	II
							8.1	II
Alkalinity - total	mmol/l	12	2.6	3.3	3.7	3.3	3.7	
Ammonium (NH4-N)	mg/l	12 <	0.004	0.036	0.089	0.030	0.080	I
Nitrite (NO2-N)	mg/l	12	0.007	0.014	0.027	0.011	0.023	II
Nitrate (NO3-N)	mg/l	12	1.050	2.135	3.270	1.995	3.132	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12 <	0.003	0.028	0.041	0.032	0.039	I
Total phosphorus	mg/l	12	0.027	0.049	0.084	0.050	0.066	I
Total phosphorus, dissolved	mg/l	12	0.010	0.035	0.052	0.038	0.052	
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	275	403	478	404	468	
Calcium (Ca++)	mg/l	12	44.7	54.2	61.2	54.9	60.4	
Sulphate (SO4--)	mg/l	12	13.2	27.4	35.9	27.0	35.3	
Magnesium (Mg++)	mg/l	12	8.7	12.2	14.3	12.2	13.8	
Potassium (K+)	mg/l	12	1.3	2.3	3.0	2.3	2.8	
Sodium (Na+)	mg/l	12	4.0	11.8	19.0	10.8	17.6	
Manganese (Mn)	mg/l	12	0.0060	0.1009	0.9970	0.0155	0.0407	
Iron (Fe)	mg/l	12	0.110	1.368	12.800	0.275	1.129	
Chloride (Cl-)	mg/l	12	11.0	21.0	33.7	19.4	30.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	0.80	2.08	4.00	2.00	3.00	II
Copper (Cu), dissolved	µg/l	12	1.20	1.42	2.20	1.35	1.68	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	1.50	0.70	0.70	II
Arsenic (As), dissolved	µg/l	12 <	0.70 <	0.70 <	0.70	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12 <	7.00	15.33	58.00	12.00	18.70	
Zinc (Zn)	µg/l	12	2.00	7.88	53.20	3.60	6.90	II
Copper (Cu)	µg/l	12	1.30	4.25	31.00	1.75	3.01	II
Chromium (Cr) - total	µg/l	12 <	0.60	1.40	8.80	0.60	1.86	II
Lead (Pb)	µg/l	12 <	0.80	3.38	29.60	0.80	1.78	II
Cadmium (Cd)	µg/l	12 <	0.10	0.12	0.30	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	2.80	18.80	1.05	3.96	II
Arsenic (As)	µg/l	12 <	0.70	1.50	9.00	0.70	1.47	II
Aluminium (Al)	µg/l	12	55.00	524.25	4640.00	129.00	471.50	
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	0.022	0.063	0.006	0.051	
AOX	µg/l	12	6.95	10.19	13.90	10.55	13.31	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	0.05	0.07	0.05	0.06	II
Macrozoobenthos sapr. index	-	1	2.10	2.10	2.10			II
Macrozoobenthos no. of taxa	-	1	27	27	27			
Total coliforms (37 C)	1000CFU/100m	12	0.285	1.571	4.850	1.155	2.735	
Faecal coliforms (44 C)	1000CFU/100m	12	0.030	0.477	1.530	0.335	0.882	
Faecal streptococci	1000CFU/100m	12	0.021	0.077	0.268	0.051	0.122	
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: 101700 km2	2005
Distance from the mouth 1935	Altitude: 159 m	A03
Location: Right		

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	1.7	10.1	18.6	10.7	17.9	
Suspended solids	mg/l	12	1.5	88.5	919.0	14.1	35.9	
Dissolved oxygen	mg/l	12	8.7	11.3	12.9	11.5	9.1	I
BOD (5)	mg/l	12	0.9	1.7	2.5	1.6	2.5	I
COD (Mn)	mg/l	12	1.5	3.2	5.0	3.1	4.8	I
COD (Cr)	mg/l	12	3.3	8.4	34.1	6.2	8.4	I
TOC	mg/l	12	0.7	2.1	3.1	2.2	2.9	
DOC	mg/l	12	0.5	1.8	2.8	2.0	2.7	
pH	-	12	8.0	8.3	8.6	8.3	8.3	II
							8.2	II
Alkalinity - total	mmol/l	12	2.6	3.2	3.7	3.2	3.5	
Ammonium (NH4-N)	mg/l	12 <	0.004	0.025	0.070	0.016	0.066	I
Nitrite (NO2-N)	mg/l	12	0.005	0.014	0.031	0.012	0.024	II
Nitrate (NO3-N)	mg/l	12	1.040	2.115	3.150	2.105	3.074	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12 <	0.003	0.027	0.045	0.029	0.041	I
Total phosphorus	mg/l	12	0.025	0.047	0.074	0.047	0.068	I
Total phosphorus, dissolved	mg/l	12	0.007	0.033	0.049	0.035	0.048	
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	269	376	447	373	440	
Calcium (Ca++)	mg/l	12	43.8	52.7	60.5	51.9	58.9	
Sulphate (SO4--)	mg/l	12	17.0	26.6	34.7	25.2	33.3	
Magnesium (Mg++)	mg/l	12	8.8	11.9	13.9	11.9	13.7	
Potassium (K+)	mg/l	12	1.2	2.1	2.8	2.0	2.4	
Sodium (Na+)	mg/l	12	3.5	10.3	17.6	8.9	16.0	
Manganese (Mn)	mg/l	12	0.0060	0.0715	0.6870	0.0165	0.0287	
Iron (Fe)	mg/l	12	0.110	1.067	9.550	0.205	0.884	
Chloride (Cl-)	mg/l	12	8.8	18.9	29.5	17.7	26.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	0.80	1.68	3.00	1.80	2.27	II
Copper (Cu), dissolved	µg/l	12	1.10	1.37	1.70	1.35	1.50	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	0.75	1.30	0.70	0.70	II
Arsenic (As), dissolved	µg/l	12 <	0.70	0.78	1.70	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	12 <	7.00	15.75	59.00	11.50	20.50	
Zinc (Zn)	µg/l	12	2.00	6.48	44.50	3.00	5.09	II
Copper (Cu)	µg/l	12	1.30	3.45	22.70	1.60	2.57	II
Chromium (Cr) - total	µg/l	12 <	0.60	1.20	7.00	0.60	1.32	II
Lead (Pb)	µg/l	12 <	0.80	2.73	22.60	0.80	1.48	II
Cadmium (Cd)	µg/l	12 <	0.10	0.11	0.20	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	2.13	13.80	0.70	3.39	II
Arsenic (As)	µg/l	12 <	0.70	1.30	7.40	0.70	1.15	II
Aluminium (Al)	µg/l	12	52.00	389.92	3140.00	108.00	383.60	
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	0.036	0.091	0.024	0.081	
AOX	µg/l	12	5.42	8.77	18.30	7.44	12.55	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	0.07	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.10	2.10	2.10			II
Macrozoobenthos no. of taxa	-	1	15	15	15			
Total coliforms (37 C)	1000CFU/100m	12	0.125	0.856	4.350	0.500	1.278	
Faecal coliforms (44 C)	1000CFU/100m	12	0.040	0.274	1.180	0.210	0.340	
Faecal streptococci	1000CFU/100m	12	0.009	0.046	0.242	0.027	0.047	
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 1874
 Location: Right

Catchment: 131411 km2
 Altitude: 140 m
 2005
 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	10.4	19.7	11.1	17.1	
Suspended solids	mg/l	24	< 0.5	31.3	234.8	14.1	55.1	I
Dissolved oxygen	mg/l	24	< 8.0	10.6	13.1	10.6	8.6	I
BOD (5)	mg/l	24	< 0.5	1.8	5.8	1.5	3.0	II
COD (Mn)	mg/l	24	1.2	2.7	5.3	2.5	4.4	I
COD (Cr)	mg/l	24	2.9	7.1	13.2	6.6	10.3	II
TOC	mg/l	24	1.5	2.5	4.4	2.5	3.3	
DOC	mg/l	24	1.3	2.2	4.0	2.2	2.9	
pH	-	24	7.8	8.1	8.4	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	24	2.4	3.1	3.6	3.1	3.6	
Ammonium (NH4-N)	mg/l	24	< 0.004	0.070	0.322	0.022	0.218	II
Nitrite (NO2-N)	mg/l	24	< 0.002	0.017	0.035	0.013	0.033	II
Nitrate (NO3-N)	mg/l	24	1.280	2.203	3.920	2.120	3.195	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	< 0.003	0.025	0.053	0.027	0.037	I
Total phosphorus	mg/l	24	0.022	0.053	0.217	0.045	0.072	I
Total phosphorus, dissolved	mg/l	24	0.010	0.038	0.144	0.037	0.048	
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	265	378	467	371	447	
Calcium (Ca++)	mg/l	24	41.1	52.3	61.5	53.3	59.3	
Sulphate (SO4--)	mg/l	24	16.7	28.1	40.3	26.9	37.9	
Magnesium (Mg++)	mg/l	24	9.9	12.0	14.3	11.7	14.1	
Potassium (K+)	mg/l	24	1.5	2.3	3.0	2.4	2.7	
Sodium (Na+)	mg/l	24	4.4	10.4	18.1	9.0	14.7	
Manganese (Mn)	mg/l	24	0.0060	0.0292	0.1690	0.0190	0.0514	
Iron (Fe)	mg/l	24	0.060	0.429	2.490	0.235	0.914	
Chloride (Cl-)	mg/l	24	9.5	19.8	31.9	17.7	29.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24	< 0.80	3.62	17.40	2.50	6.19	III
Copper (Cu), dissolved	µg/l	24	1.20	1.55	3.10	1.50	1.87	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	0.74	1.10	0.70	0.91	II
Arsenic (As), dissolved	µg/l	24	< 0.70	< 0.70	< 0.70	0.70	0.70	II
Aluminium (Al), dissolved	µg/l	24	< 7.00	19.42	90.00	12.00	42.10	
Zinc (Zn)	µg/l	24	1.00	9.54	35.00	5.20	20.78	II
Copper (Cu)	µg/l	24	1.30	2.43	7.10	2.05	4.04	II
Chromium (Cr) - total	µg/l	24	< 0.60	0.83	3.40	0.60	0.88	II
Lead (Pb)	µg/l	24	< 0.80	1.40	6.40	0.80	3.21	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	1.26	5.70	0.70	2.24	II
Arsenic (As)	µg/l	24	< 0.70	0.90	2.30	0.70	1.24	II
Aluminium (Al)	µg/l	24	29.00	193.25	1034.00	128.00	362.50	
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	0.029	0.099	0.023	0.058	
AOX	µg/l	24	5.60	10.26	20.00	9.53	16.42	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	24	< 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	0.06	0.04	0.04	II
Macrozoobenthos sapr. index	-	1	2.00	2.00	2.00			II
Macrozoobenthos no. of taxa	-	1	32	32	32			
Total coliforms (37 C)	1000CFU/100m	24	0.700	4.965	28.800	2.405	9.485	
Faecal coliforms (44 C)	1000CFU/100m	24	0.240	1.420	5.040	0.713	4.155	
Faecal streptococci	1000CFU/100m	24	0.015	0.182	1.130	0.106	0.354	
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: /Morava

Catchment:

9725 km2

2005

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	9.7	53.7	512.0	33.0	113.6	
Temperature	°C	12	0.2	10.6	22.3	10.9	19.6	
Suspended solids	mg/l	12	7.6	51.0	338.0	28.8	44.2	
Dissolved oxygen	mg/l	12	9.4	12.2	14.1	12.3	10.0	I
BOD (5)	mg/l	12	2.1	4.4	8.6	4.1	6.8	III
COD (Mn)	mg/l	12	3.6	5.6	9.0	5.6	7.0	II
COD (Cr)	mg/l	12	11.4	19.2	27.4	19.2	27.2	III
TOC	mg/l	12	2.8	4.4	5.9	4.6	5.6	
DOC	mg/l	11	2.3	3.9	5.5	3.8	5.2	
pH	-	12	7.9	8.2	8.5	8.2	8.3	II
							8.0	II
Alkalinity - total	mmol/l	12	1.8	2.7	3.6	2.8	3.0	
Ammonium (NH4-N)	mg/l	12 <	0.020	0.178	0.843	0.039	0.475	III
Nitrite (NO2-N)	mg/l	12	0.014	0.029	0.051	0.028	0.040	II
Nitrate (NO3-N)	mg/l	12	1.113	2.332	4.388	2.349	3.226	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12 <	0.20	0.86	1.97	0.78	1.37	
Orthophosphate (PO4-P)	mg/l	12 <	0.010	0.068	0.121	0.082	0.109	III
Total phosphorus	mg/l	12	0.045	0.145	0.301	0.159	0.187	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	2.7	45.9	214.0	43.8	64.3	III
Conductivity	µS/cm	12	336	510	693	518	580	
Calcium (Ca++)	mg/l	12	37.2	53.7	70.7	53.9	68.9	
Sulphate (SO4--)	mg/l	12	43.1	65.9	95.0	63.3	82.4	
Magnesium (Mg++)	mg/l	12	6.5	9.1	12.8	8.4	11.7	
Potassium (K+)	mg/l	12	2.9	5.3	8.4	5.3	7.6	
Sodium (Na+)	mg/l	12	11.1	23.0	39.4	19.6	35.9	
Manganese (Mn)	mg/l	12	0.0550	0.1226	0.2210	0.1025	0.2107	
Iron (Fe)	mg/l	12	0.084	0.504	1.201	0.421	0.780	
Chloride (Cl-)	mg/l	12	17.1	30.8	47.8	28.6	45.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	5.00	8.41	15.73	6.58	14.79	III
Copper (Cu), dissolved	µg/l	12 <	0.50	1.42	2.25	1.40	1.94	II
Chromium (Cr), total dissolved	µg/l	12 <	0.50	0.96	1.67	1.07	1.37	II
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	1.95	3.68	5.68	3.94	5.19	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.12	1.58	1.00	1.32	III
Aluminium (Al), dissolved	µg/l	12	< 5.00	5.76	10.20	5.00	8.51	
Zinc (Zn)	µg/l	12	6.28	15.24	37.80	13.50	23.49	II
Copper (Cu)	µg/l	12	1.72	2.92	5.97	2.49	4.49	II
Chromium (Cr) - total	µg/l	12 <	0.50	1.46	2.73	1.50	2.07	II
Lead (Pb)	µg/l	12 <	0.50	1.98	7.58	1.45	2.80	II
Cadmium (Cd)	µg/l	12 <	0.05	0.06	0.11	0.05	0.08	II
Mercury (Hg)	µg/l	12 <	0.100	0.106	0.170	0.100	0.100	II
Nickel (Ni)	µg/l	12	2.39	8.36	52.80	4.49	6.21	II
Arsenic (As)	µg/l	12 <	1.00	1.29	1.88	1.14	1.76	II
Aluminium (Al)	µg/l	12	22.30	277.59	740.00	267.00	453.20	
Phenol index	mg/l	12	0.0008	0.0015	0.0055	0.0009	0.0033	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	12	9.30	17.11	35.20	13.45	30.19	II
Petroleum hydrocarbons	mg/l	12 <	0.030	< 0.030	: 0.030	0.030	0.030	
PAHs (Borneff 6)	µg/l	12	0.006	0.031	0.174	0.014	0.066	
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 <	0.002	0.020	0.041	0.020	0.035	II
Chloroform	µg/l	12 <	0.03	0.08	0.30	0.03	0.19	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	0.11	0.20	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.01	2.09	2.16			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.600	3.433	8.700	3.150	5.690	
Faecal coliforms (44 C)	1000CFU/100m	12	0.100	1.025	3.600	0.600	1.600	
Faecal streptococci	1000CFU/100m	12	0.000	0.808	4.200	0.400	1.380	
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: 155 m
 2005
 CZ02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	11.3	39.3	278.9	29.5	63.8	
Temperature	°C	12	0.8	10.8	22.1	11.6	19.3	
Suspended solids	mg/l	12	3.2	49.2	371.0	20.8	47.4	
Dissolved oxygen	mg/l	12	7.4	11.0	14.6	11.2	7.5	I
BOD (5)	mg/l	12	2.2	3.7	4.9	3.8	4.7	II
COD (Mn)	mg/l	12	5.8	7.2	9.0	7.3	7.8	II
COD (Cr)	mg/l	12	19.7	25.5	33.8	24.9	29.8	III
TOC	mg/l	12	5.9	7.2	8.9	7.0	8.5	
DOC	mg/l	11	5.7	6.7	9.5	6.2	7.8	
pH	-	12	7.8	8.1	8.3	8.1	8.2	II
							7.9	II
Alkalinity - total	mmol/l	12	1.7	2.6	3.0	2.6	3.0	
Ammonium (NH4-N)	mg/l	12 <	0.030	0.147	0.349	0.135	0.269	II
Nitrite (NO2-N)	mg/l	12	0.016	0.043	0.104	0.035	0.068	III
Nitrate (NO3-N)	mg/l	12	0.772	2.580	6.140	1.913	5.033	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	12 <	0.20	0.94	1.79	1.00	1.20	
Orthophosphate (PO4-P)	mg/l	12	0.061	0.187	0.312	0.177	0.292	IV
Total phosphorus	mg/l	12	0.122	0.252	0.386	0.219	0.371	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	3.4	28.1	53.3	34.8	48.4	II
Conductivity	µS/cm	12	486	587	647	593	634	
Calcium (Ca++)	mg/l	12	26.1	47.5	56.6	49.5	55.6	
Sulphate (SO4--)	mg/l	12	74.4	91.0	102.4	88.3	101.0	
Magnesium (Mg++)	mg/l	12	9.4	15.5	19.4	16.0	18.7	
Potassium (K+)	mg/l	12	4.9	7.9	10.1	8.3	9.0	
Sodium (Na+)	mg/l	12	15.2	25.9	32.2	25.2	32.0	
Manganese (Mn)	mg/l	12	0.0640	0.1673	0.4370	0.1155	0.3163	
Iron (Fe)	mg/l	12	0.064	0.303	0.656	0.244	0.545	
Chloride (Cl-)	mg/l	12	30.7	41.3	47.4	41.2	46.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	5.00	10.37	33.40	7.11	14.30	III
Copper (Cu), dissolved	µg/l	12	0.68	1.70	2.31	1.98	2.05	III
Chromium (Cr), total dissolved	µg/l	12 <	0.50	0.94	1.76	0.86	1.60	II
Lead (Pb), dissolved	µg/l	12 <	0.50	0.57	0.83	0.50	0.77	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	2.07	4.38	6.00	4.34	5.83	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.82	3.73	1.54	3.01	III
Aluminium (Al), dissolved	µg/l	12 <	5.00	5.52	8.60	5.00	7.26	
Zinc (Zn)	µg/l	12 <	5.00	22.53	91.10	13.55	37.66	II
Copper (Cu)	µg/l	12	1.37	2.87	4.26	2.87	4.03	II
Chromium (Cr) - total	µg/l	12 <	0.50	1.38	2.05	1.51	1.93	II
Lead (Pb)	µg/l	12 <	0.50	1.45	3.08	1.25	2.69	II
Cadmium (Cd)	µg/l	12 <	0.05	0.06	0.13	0.05	0.08	II
Mercury (Hg)	µg/l	12 <	0.100	0.124	0.390	0.100	0.100	II
Nickel (Ni)	µg/l	12	2.66	4.96	7.39	4.82	6.78	II
Arsenic (As)	µg/l	12 <	1.00	2.17	4.31	2.21	3.15	II
Aluminium (Al)	µg/l	12	26.20	169.17	309.00	139.50	307.30	
Phenol index	mg/l	12	0.0008	0.0009	0.0013	0.0008	0.0009	
Anionic active surfactants (PAL-A)	mg/l							
AOX	µg/l	12	11.60	33.53	69.00	30.20	58.00	III
Petroleum hydrocarbons	mg/l	12 <	0.030	0.053	0.280	0.030	0.048	
PAHs (Borneff 6)	µg/l	12 <	0.005	0.031	0.115	0.014	0.101	
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	0.012	0.035	0.054	0.032	0.050	II
Chloroform	µg/l	12 <	0.03	0.09	0.20	0.10	0.19	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	-	2	1.90	2.07	2.23			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	1.000	2.925	4.300	3.150	3.900	
Faecal coliforms (44 C)	1000CFU/100m	12	0.100	0.658	1.400	0.600	1.200	
Faecal streptococci	1000CFU/100m	12	0.100	0.525	2.100	0.350	0.790	
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	2005
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	12	1.5	10.4	18.6	11.5	17.9	
Suspended solids	mg/l	25	6.0	51.7	368.0	29.0	101.6	
Dissolved oxygen	mg/l	12	8.8	11.0	15.1	10.6	9.1	I
BOD (5)	mg/l	25	0.9	1.8	3.5	1.8	3.0	I
COD (Mn)	mg/l	12	2.2	3.3	7.2	3.0	3.9	I
COD (Cr)	mg/l	12	8.0	12.1	25.5	11.1	13.5	II
TOC	mg/l	12	2.0	2.5	3.2	2.4	3.0	
DOC	mg/l							
pH	-	12	7.5	8.0	8.2	8.1	8.1	II
							7.7	II
Alkalinity - total	mmol/l	12	2.5	3.1	3.6	3.1	3.6	
Ammonium (NH4-N)	mg/l	25	0.030	0.217	0.510	0.210	0.452	III
Nitrite (NO2-N)	mg/l	25	0.003	0.013	0.033	0.011	0.025	II
Nitrate (NO3-N)	mg/l	25	1.240	2.101	3.470	1.820	3.298	III
Total nitrogen	mg/l	12	1.85	2.66	4.21	2.33	3.72	II
Organic nitrogen	mg/l	12	< 0.10	0.36	1.32	0.30	0.43	
Orthophosphate (PO4-P)	mg/l	12	0.027	0.049	0.107	0.045	0.060	II
Total phosphorus	mg/l	25	0.050	0.105	0.379	0.090	0.150	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	3.8	19.0	40.2	18.8	29.7	II
Conductivity	µS/cm	12	346	434	534	427	513	
Calcium (Ca++)	mg/l	12	45.8	55.8	65.1	54.4	63.3	
Sulphate (SO4--)	mg/l	12	22.9	31.4	43.0	29.5	41.3	
Magnesium (Mg++)	mg/l	12	10.1	12.8	16.2	12.7	15.3	
Potassium (K+)	mg/l	12	2.0	2.6	3.4	2.5	3.3	
Sodium (Na+)	mg/l	12	8.5	13.1	20.5	11.4	18.5	
Manganese (Mn)	mg/l	12	0.0170	0.0611	0.1800	0.0450	0.1365	
Iron (Fe)	mg/l	12	0.061	0.597	3.050	0.381	0.792	
Chloride (Cl-)	mg/l	25	12.9	19.8	33.6	17.9	26.2	
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	4	< 20.00	< 20.00	< 20.00	20.00	20.00	II
Copper (Cu)	µg/l	4	2.10	3.05	5.30	2.40		II
Chromium (Cr) - total	µg/l	4	< 0.20	0.50	1.10	0.35		II
Lead (Pb)	µg/l	4	< 1.00	2.55	5.30	1.95		III
Cadmium (Cd)	µg/l	4	< 0.05	0.05	0.06	0.05		II
Mercury (Hg)	µg/l	4	< 0.100	< 0.100	: 0.100	0.100		II
Nickel (Ni)	µg/l	4	< 1.00	1.65	2.30	1.65		II
Arsenic (As)	µg/l	4	< 1.00	1.41	2.38	1.14		II
Aluminium (Al)	µg/l	4	263.00	509.00	740.00	516.50		
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	< 10.00	17.74	41.00	13.55	36.62	II
Petroleum hydrocarbons	mg/l	12	0.020	0.029	0.070	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							
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	0.800	4.925	20.500	2.800	7.900	
Faecal coliforms (44 C)	1000CFU/100m	12	0.400	2.025	7.000	1.250	5.600	
Faecal streptococci	1000CFU/100m	12	0.000	4.167	11.000	3.500	7.800	
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: 131329 km2	2005
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	907.9	2115.1	6546.0	1835.0	3513.0	
Temperature	°C	12	1.6	10.4	18.5	11.7	17.7	
Suspended solids	mg/l	25	4.0	53.7	422.0	25.0	123.4	
Dissolved oxygen	mg/l	12	8.9	11.0	15.0	10.6	9.2	I
BOD (5)	mg/l	25	0.7	1.7	3.3	1.6	2.6	I
COD (Mn)	mg/l	12	1.9	3.1	7.4	2.8	3.7	I
COD (Cr)	mg/l	12	6.5	10.9	25.5	10.5	11.6	II
TOC	mg/l	12	1.8	2.4	3.2	2.3	2.9	
DOC	mg/l							
pH	-	12	7.7	8.1	8.3	8.1	8.2	II
							8.0	II
Alkalinity - total	mmol/l	12	2.5	3.1	3.7	3.1	3.6	
Ammonium (NH4-N)	mg/l	25 <	0.020	0.188	0.530	0.180	0.390	III
Nitrite (NO2-N)	mg/l	25	0.003	0.012	0.037	0.010	0.025	II
Nitrate (NO3-N)	mg/l	25	1.240	2.064	3.390	1.880	3.054	III
Total nitrogen	mg/l	12	1.78	2.59	4.02	2.29	3.63	II
Organic nitrogen	mg/l	12 <	0.10	0.35	1.19	0.34	0.48	
Orthophosphate (PO4-P)	mg/l	12	0.027	0.040	0.064	0.038	0.054	II
Total phosphorus	mg/l	25	0.050	0.093	0.352	0.070	0.116	II
Total phosphorus, dissolved	mg/l	12 <	0.000	0.039	0.070	0.042	0.059	
Chlorophyll A	µg/l	12	3.4	16.7	32.5	15.6	27.2	II
Conductivity	µS/cm	12	334	428	525	420	504	
Calcium (Ca++)	mg/l	12	46.1	56.3	64.6	56.6	63.8	
Sulphate (SO4--)	mg/l	12	20.2	28.9	38.7	27.2	38.6	
Magnesium (Mg++)	mg/l	12	10.1	12.9	15.7	13.0	15.4	
Potassium (K+)	mg/l	12	1.8	2.4	3.1	2.3	3.1	
Sodium (Na+)	mg/l	12	7.6	12.4	19.4	10.7	17.7	
Manganese (Mn)	mg/l	12	0.0110	0.0602	0.2090	0.0345	0.1868	
Iron (Fe)	mg/l	12	0.116	0.586	3.020	0.317	0.811	
Chloride (Cl-)	mg/l	25	12.1	19.1	32.2	17.7	26.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12 <	20.00	21.08	33.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	0.70	1.13	2.30	1.00	1.49	II
Chromium (Cr), total dissolved	µg/l	12 <	0.20	0.21	0.30	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12 <	1.00	1.62	3.60	1.35	2.62	III
Cadmium (Cd), dissolved	µg/l	12 <	0.05	0.05	0.09	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	1.20	2.40	1.00	1.47	III
Arsenic (As), dissolved	µg/l	12 <	1.00	1.01	1.10	1.00	1.00	II
Aluminium (Al), dissolved	µg/l	12	15.00	43.58	75.00	47.00	63.50	
Zinc (Zn)	µg/l	12 <	20.00	22.00	42.00	20.00	21.80	II
Copper (Cu)	µg/l	12	1.40	2.67	6.70	2.20	5.12	II
Chromium (Cr) - total	µg/l	12 <	0.20	0.49	2.10	0.20	1.08	II
Lead (Pb)	µg/l	12 <	1.00	2.63	6.90	2.10	4.27	II
Cadmium (Cd)	µg/l	12 <	0.05	0.05	0.09	0.05	0.06	II
Mercury (Hg)	µg/l	12 <	0.100 <	0.100	0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12 <	1.00	1.67	3.30	1.35	3.01	II
Arsenic (As)	µg/l	12 <	1.00	1.23	2.45	1.00	1.49	II
Aluminium (Al)	µg/l	12	86.00	422.92	1200.00	298.00	819.50	
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	0.032	0.040	0.030	0.039	
AOX	µg/l	12 <	10.00	17.58	45.00	13.20	29.13	II
Petroleum hydrocarbons	mg/l	12	0.020	0.030	0.060	0.030	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-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							
Chloroform	µg/l	2 <	1.80	2.80	3.80			**
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	1.000	3.217	9.000	2.050	7.620	
Faecal coliforms (44 C)	1000CFU/100m	12	0.300	1.392	6.500	0.950	1.780	
Faecal streptococci	1000CFU/100m	12	0.000	3.417	13.000	3.500	4.900	
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	2005
Distance from the mouth 1869	Altitude: 128 m	SK01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	1.7	10.5	18.4	11.2	17.3	
Suspended solids	mg/l	25	4.0	50.3	343.0	24.0	115.0	
Dissolved oxygen	mg/l	12	8.8	10.9	15.1	10.5	9.0	I
BOD (5)	mg/l	25	0.7	1.7	3.5	1.5	2.8	I
COD (Mn)	mg/l	12	1.7	3.0	7.9	2.6	3.7	I
COD (Cr)	mg/l	12	6.0	11.0	26.0	10.3	11.9	II
TOC	mg/l	12	1.7	2.2	2.8	2.2	2.8	
DOC	mg/l							
pH	-	12	7.9	8.1	8.3	8.1	8.2	II
							8.1	II
Alkalinity - total	mmol/l	12	2.5	3.2	3.7	3.2	3.6	
Ammonium (NH4-N)	mg/l	25 <	0.020	0.188	0.480	0.170	0.386	III
Nitrite (NO2-N)	mg/l	25	0.002	0.013	0.043	0.010	0.027	II
Nitrate (NO3-N)	mg/l	25	1.270	2.071	3.320	1.950	2.856	II
Total nitrogen	mg/l	12	1.74	2.58	3.90	2.44	3.45	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.017	0.034	0.055	0.034	0.052	II
Total phosphorus	mg/l	25	0.040	0.081	0.267	0.070	0.108	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	2.6	15.0	25.0	14.5	23.3	I
Conductivity	µS/cm	12	327	426	519	422	496	
Calcium (Ca++)	mg/l	12	45.1	56.6	64.3	58.1	63.7	
Sulphate (SO4--)	mg/l	12	18.5	26.6	35.4	25.6	33.4	
Magnesium (Mg++)	mg/l	12	9.7	13.0	15.7	13.0	15.3	
Potassium (K+)	mg/l	12	1.5	2.2	2.7	2.1	2.7	
Sodium (Na+)	mg/l	12	7.0	11.8	18.5	10.4	17.4	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	12	0.093	0.561	3.030	0.291	0.797	
Chloride (Cl-)	mg/l	25	11.5	18.7	31.5	16.5	26.9	
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	4 <	20.00 <	20.00 <	20.00	20.00		II
Copper (Cu)	µg/l	4	1.90	3.18	6.30	2.25		II
Chromium (Cr) - total	µg/l	4 <	0.20	0.40	1.00	0.20		II
Lead (Pb)	µg/l	4 <	1.00	2.40	4.70	1.95		II
Cadmium (Cd)	µg/l	4 <	0.05 <	0.05 <	0.05	0.05		II
Mercury (Hg)	µg/l	4 <	0.100 <	0.100 :	0.100	0.100		II
Nickel (Ni)	µg/l	4 <	1.00	1.63	2.50	1.50		II
Arsenic (As)	µg/l	4 <	1.00	1.39	2.30	1.13		II
Aluminium (Al)	µg/l	4	223.00	422.50	640.00	413.50		
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	0.032	0.040	0.030	0.039	
AOX	µg/l	12	11.40	26.53	58.00	28.35	39.81	II
Petroleum hydrocarbons	mg/l	12	0.010	0.025	0.080	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							
Chloroform	µg/l	2 <	1.80	2.75	3.70			**
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	-	2	2.16	2.28	2.40			III
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.600	3.458	8.500	1.950	7.500	
Faecal coliforms (44 C)	1000CFU/100m	12	0.300	1.533	4.000	1.200	3.310	
Faecal streptococci	1000CFU/100m	12	1.000	4.333	16.000	3.000	6.800	
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: 132168 km2	2005
Distance from the mouth 1806	Altitude: 108 m	SK02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	819.3	2033.5	5891.0	1790.0	3395.4	
Temperature	°C	12	1.7	11.0	18.7	11.8	18.0	
Suspended solids	mg/l	12	8.0	29.4	70.0	27.0	62.3	
Dissolved oxygen	mg/l	12	8.2	10.7	13.9	10.8	8.6	I
BOD (5)	mg/l	12	< 0.4	1.6	2.2	1.7	2.0	I
COD (Mn)	mg/l	12	1.7	2.3	3.7	2.3	3.0	I
COD (Cr)	mg/l	12	7.0	9.6	13.0	9.6	11.1	II
TOC	mg/l	12	1.6	2.5	3.9	2.4	3.0	
DOC	mg/l							
pH	-	12	8.0	8.2	8.3	8.2	8.2	II
							8.0	II
Alkalinity - total	mmol/l	12	2.6	3.2	3.6	3.1	3.6	
Ammonium (NH4-N)	mg/l	12	0.030	0.128	0.280	0.110	0.216	II
Nitrite (NO2-N)	mg/l	12	0.004	0.014	0.039	0.011	0.028	II
Nitrate (NO3-N)	mg/l	12	1.270	1.980	2.970	1.785	2.855	II
Total nitrogen	mg/l	12	1.65	2.41	3.65	2.10	3.52	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.025	0.037	0.059	0.034	0.058	II
Total phosphorus	mg/l	12	0.050	0.074	0.120	0.075	0.089	I
Total phosphorus, dissolved	mg/l	12	< 0.000	0.043	0.070	0.040	0.060	
Chlorophyll A	µg/l	12	2.9	18.7	40.9	15.8	30.1	II
Conductivity	µS/cm	12	334	426	513	418	492	
Calcium (Ca++)	mg/l	12	45.7	57.6	65.6	59.3	64.2	
Sulphate (SO4--)	mg/l	12	19.6	27.7	34.8	26.3	34.7	
Magnesium (Mg++)	mg/l	12	10.0	13.2	15.6	13.3	14.9	
Potassium (K+)	mg/l	12	1.7	2.3	2.9	2.3	2.8	
Sodium (Na+)	mg/l	12	7.4	11.9	19.0	10.5	17.7	
Manganese (Mn)	mg/l	12	0.0210	0.0381	0.0780	0.0310	0.0556	
Iron (Fe)	mg/l	12	0.134	0.323	0.916	0.223	0.491	
Chloride (Cl-)	mg/l	12	12.1	19.2	30.5	17.2	28.0	
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	< 0.50	1.23	1.90	1.20	1.69	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	1.80	3.50	1.55	3.06	III
Cadmium (Cd), dissolved	µg/l	12	< 0.05	0.05	0.09	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	1.12	2.00	1.00	1.36	III
Arsenic (As), dissolved	µg/l	12	< 1.00	1.03	1.38	1.00	1.00	II
Aluminium (Al), dissolved	µg/l	12	11.00	44.67	97.00	37.00	76.90	
Zinc (Zn)	µg/l	12	< 20.00	20.75	28.00	20.00	20.90	II
Copper (Cu)	µg/l	12	1.20	1.97	4.40	1.75	2.57	II
Chromium (Cr) - total	µg/l	12	< 0.20	0.33	0.70	0.20	0.59	II
Lead (Pb)	µg/l	12	< 1.00	2.61	4.70	2.50	3.99	II
Cadmium (Cd)	µg/l	12	< 0.05	0.06	0.12	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.200	1.300	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.42	2.50	1.15	2.10	II
Arsenic (As)	µg/l	12	< 1.00	1.15	2.22	1.00	1.23	II
Aluminium (Al)	µg/l	12	101.00	281.33	543.00	275.00	474.00	
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	0.031	0.040	0.030	0.030	
AOX	µg/l	12	< 10.00	15.80	29.00	14.15	25.26	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							
Chloroform	µg/l	2	< 1.80	2.05	2.30			**
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	-	2	2.18	2.39	2.60			III
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.100	1.167	4.500	0.900	2.060	
Faecal coliforms (44 C)	1000CFU/100m	12	0.000	0.533	3.100	0.250	0.870	
Faecal streptococci	1000CFU/100m	12	0.000	2.000	11.000	1.000	3.800	
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: 151961 km2	2005
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	857.7	2094.6	5280.0	1803.0	3475.8	
Temperature	°C	12	2.0	11.1	19.5	11.7	18.3	
Suspended solids	mg/l	12	6.0	28.7	87.0	22.0	61.3	
Dissolved oxygen	mg/l	12	7.9	10.8	14.0	11.1	8.3	I
BOD (5)	mg/l	12	< 0.4	1.7	2.6	1.8	2.5	I
COD (Mn)	mg/l	12	1.7	2.5	4.1	2.5	2.8	I
COD (Cr)	mg/l	12	8.0	9.8	13.5	9.8	10.6	II
TOC	mg/l	12	2.0	2.4	2.9	2.4	2.7	
DOC	mg/l							
pH	-	12	8.0	8.2	8.3	8.2	8.3	II
							8.1	II
Alkalinity - total	mmol/l	12	2.6	3.2	3.7	3.2	3.7	
Ammonium (NH4-N)	mg/l	12	0.030	0.141	0.350	0.135	0.218	II
Nitrite (NO2-N)	mg/l	12	0.007	0.016	0.038	0.013	0.029	II
Nitrate (NO3-N)	mg/l	12	1.230	2.028	3.150	1.775	2.923	II
Total nitrogen	mg/l	12	1.64	2.49	3.87	2.18	3.40	II
Organic nitrogen	mg/l	12	< 0.10	0.31	0.56	0.32	0.43	
Orthophosphate (PO4-P)	mg/l	12	0.028	0.045	0.072	0.042	0.070	II
Total phosphorus	mg/l	12	0.060	0.086	0.142	0.085	0.099	I
Total phosphorus, dissolved	mg/l	12	< 0.000	0.046	0.070	0.050	0.070	
Chlorophyll A	µg/l	12	2.8	18.7	44.8	13.0	37.1	II
Conductivity	µS/cm	12	338	442	538	435	527	
Calcium (Ca++)	mg/l	12	45.8	58.6	66.4	60.5	65.7	
Sulphate (SO4--)	mg/l	12	21.3	31.3	43.1	30.9	39.7	
Magnesium (Mg++)	mg/l	12	10.2	13.8	16.6	13.9	16.1	
Potassium (K+)	mg/l	12	1.8	2.5	3.1	2.6	3.0	
Sodium (Na+)	mg/l	12	8.3	13.5	20.9	12.3	18.7	
Manganese (Mn)	mg/l	12	0.0150	0.0370	0.0890	0.0285	0.0693	
Iron (Fe)	mg/l	12	0.161	0.356	1.370	0.254	0.455	
Chloride (Cl-)	mg/l	12	13.2	20.4	32.8	18.1	28.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	12	< 20.00	20.33	24.00	20.00	20.00	**
Copper (Cu), dissolved	µg/l	12	0.60	1.34	2.60	1.25	2.04	III
Chromium (Cr), total dissolved	µg/l	12	< 0.20	0.21	0.30	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12	< 1.00	1.52	3.00	1.25	2.09	III
Cadmium (Cd), dissolved	µg/l	12	< 0.05	0.66	2.20	0.05	2.09	III
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	1.29	2.20	1.00	2.09	III
Arsenic (As), dissolved	µg/l	12	< 1.00	1.06	1.40	1.00	1.17	III
Aluminium (Al), dissolved	µg/l	12	21.00	63.50	223.00	40.50	129.70	
Zinc (Zn)	µg/l	12	< 20.00	20.58	27.00	20.00	20.00	II
Copper (Cu)	µg/l	12	1.10	2.07	4.10	1.75	2.80	II
Chromium (Cr) - total	µg/l	12	< 0.20	0.33	0.90	0.20	0.69	II
Lead (Pb)	µg/l	12	< 1.00	2.56	5.30	2.50	3.76	II
Cadmium (Cd)	µg/l	12	< 0.05	0.05	0.09	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	0.153	0.720	0.100	0.118	III
Nickel (Ni)	µg/l	12	< 1.00	1.56	3.10	1.30	2.45	II
Arsenic (As)	µg/l	12	< 1.00	1.34	2.34	1.12	2.06	II
Aluminium (Al)	µg/l	12	97.00	275.00	600.00	254.50	496.30	
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	0.030	0.030	0.030	0.030	
AOX	µg/l	12	< 10.00	21.87	48.30	15.25	45.46	II
Petroleum hydrocarbons	mg/l	12	0.020	0.028	0.080	0.020	0.039	
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							
Chloroform	µg/l	2	< 1.80	5.55	9.30			**
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	0.300	7.175	30.500	2.500	27.700	
Faecal coliforms (44 C)	1000CFU/100m	12	0.100	2.000	6.500	1.350	5.370	
Faecal streptococci	1000CFU/100m	12	1.000	4.000	11.000	2.500	8.900	
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
 Distance from the mouth 1
 Location: Middle

Catchment: 19661 km2
 Altitude: 106 m
 2005
 SK04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.5	11.0	22.0	11.0	20.0	
Suspended solids	mg/l	12	7.0	18.8	40.0	17.0	27.6	
Dissolved oxygen	mg/l	12	7.9	10.2	13.8	10.0	8.3	I
BOD (5)	mg/l	12	1.0	1.9	3.4	1.8	2.8	I
COD (Mn)	mg/l	12	2.5	3.0	3.7	2.9	3.6	I
COD (Cr)	mg/l	12	8.0	11.5	14.5	11.9	14.0	II
TOC	mg/l	12	2.3	2.8	3.2	2.8	3.1	
DOC	mg/l							
pH	-	12	7.9	8.1	8.2	8.1	8.2	II
							7.9	II
Alkalinity - total	mmol/l	12	2.8	3.3	4.1	3.2	4.0	
Ammonium (NH4-N)	mg/l	12	0.150	0.396	0.820	0.355	0.661	IV
Nitrite (NO2-N)	mg/l	12	0.024	0.042	0.061	0.040	0.052	II
Nitrate (NO3-N)	mg/l	12	1.260	1.998	2.700	1.870	2.536	II
Total nitrogen	mg/l	12	1.95	2.78	3.66	2.54	3.57	II
Organic nitrogen	mg/l	12	< 0.10	0.36	0.56	0.42	0.50	
Orthophosphate (PO4-P)	mg/l	12	0.049	0.109	0.164	0.107	0.144	III
Total phosphorus	mg/l	12	0.110	0.167	0.240	0.166	0.190	II
Total phosphorus, dissolved	mg/l	12	0.070	0.117	0.180	0.117	0.157	
Chlorophyll A	µg/l	12	1.8	15.2	32.1	13.6	26.7	II
Conductivity	µS/cm	12	371	474	611	453	569	
Calcium (Ca++)	mg/l	12	51.2	60.4	74.9	57.6	71.2	
Sulphate (SO4--)	mg/l	12	28.4	39.2	51.5	37.9	49.7	
Magnesium (Mg++)	mg/l	12	10.7	14.0	18.9	12.6	17.6	
Potassium (K+)	mg/l	12	2.4	3.3	4.2	3.2	4.0	
Sodium (Na+)	mg/l	12	9.6	16.3	23.7	15.3	21.5	
Manganese (Mn)	mg/l	12	0.0220	0.0395	0.0780	0.0365	0.0503	
Iron (Fe)	mg/l	12	0.109	0.224	0.533	0.171	0.312	
Chloride (Cl-)	mg/l	12	11.0	21.3	36.4	18.3	32.2	
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	1.03	1.80	0.90	1.49	II
Chromium (Cr), total dissolved	µg/l	12	< 0.20	< 0.20	< 0.20	0.20	0.20	II
Lead (Pb), dissolved	µg/l	12	< 1.00	1.77	3.70	1.35	3.39	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	1.34	3.30	1.00	1.77	III
Arsenic (As), dissolved	µg/l	12	1.27	2.51	6.24	2.02	3.46	III
Aluminium (Al), dissolved	µg/l	12	15.00	56.58	107.00	51.50	98.40	
Zinc (Zn)	µg/l	12	< 20.00	21.33	29.00	20.00	26.30	II
Copper (Cu)	µg/l	12	1.10	1.68	2.60	1.60	2.55	II
Chromium (Cr) - total	µg/l	12	< 0.20	0.23	0.50	0.20	0.20	II
Lead (Pb)	µg/l	12	< 1.00	2.62	4.90	2.70	4.73	II
Cadmium (Cd)	µg/l	12	< 0.05	< 0.05	< 0.05	0.05	0.05	II
Mercury (Hg)	µg/l	12	< 0.100	< 0.100	: 0.100	0.100	0.100	II
Nickel (Ni)	µg/l	12	< 1.00	1.53	4.30	1.05	2.18	II
Arsenic (As)	µg/l	12	1.40	2.69	6.50	2.27	3.79	II
Aluminium (Al)	µg/l	12	75.00	237.00	553.00	184.00	383.10	
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	0.041	0.060	0.040	0.059	
AOX	µg/l	12	10.00	35.68	122.00	20.65	69.56	III
Petroleum hydrocarbons	mg/l	12	0.020	0.027	0.040	0.025	0.039	
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							
Chloroform	µg/l	2	< 1.80	7.50	13.20			**
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	-	2	2.23	2.52	2.81			IV
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.220	3.081	20.500	1.550	2.965	
Faecal coliforms (44 C)	1000CFU/100m	12	6.000	95.417	305.000	75.000	205.000	
Faecal streptococci	1000CFU/100m	12	0.030	0.191	0.550	0.175	0.313	
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: 108 m
 2005
 H01

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	180.0	2000.5	5930.0	1750.0	3378.0	
Temperature	°C	26	1.3	10.9	20.4	11.6	18.7	
Suspended solids	mg/l	14	2.0	34.9	67.0	34.0	52.0	
Dissolved oxygen	mg/l	26	7.0	10.3	13.3	10.7	8.0	I
BOD (5)	mg/l	26	0.2	2.6	5.5	2.8	3.8	II
COD (Mn)	mg/l	26	1.8	3.0	5.8	2.9	4.2	I
COD (Cr)	mg/l	26	5.0	8.8	15.0	8.0	11.5	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.1	8.0	8.4	8.0	8.3	II
							7.6	II
Alkalinity - total	mmol/l	13	2.4	3.2	4.0	3.3	3.7	
Ammonium (NH4-N)	mg/l	26 <	0.020	0.038	0.150	0.020	0.075	I
Nitrite (NO2-N)	mg/l	26	0.002	0.019	0.051	0.021	0.033	II
Nitrate (NO3-N)	mg/l	26	1.070	1.848	3.300	1.650	2.755	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	26	0.04	0.39	1.26	0.28	0.75	
Orthophosphate (PO4-P)	mg/l	26	0.010	0.044	0.117	0.039	0.074	II
Total phosphorus	mg/l	26	0.043	0.127	0.390	0.100	0.220	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	2.0	18.7	80.5	12.5	40.9	II
Conductivity	µS/cm	26	298	382	456	388	432	
Calcium (Ca++)	mg/l	13	44.0	57.2	66.0	56.0	63.6	
Sulphate (SO4--)	mg/l	13	22.1	28.5	37.9	27.8	35.4	
Magnesium (Mg++)	mg/l	13	10.9	16.1	27.0	13.4	25.0	
Potassium (K+)	mg/l	13	4.0	4.0	4.0	4.0	4.0	
Sodium (Na+)	mg/l	13	8.5	13.1	20.0	11.8	18.3	
Manganese (Mn)	mg/l	13	0.0200	0.0731	0.1500	0.0800	0.1140	
Iron (Fe)	mg/l	13	0.090	0.265	0.770	0.220	0.386	
Chloride (Cl-)	mg/l	13	10.7	18.7	35.5	16.3	28.4	
Silicates (SiO2)	mg/l	6	2.60	4.47	5.10	4.85		
Zinc (Zn), dissolved	µg/l	12 <	5.00	8.17	18.00	6.50	12.80	III
Copper (Cu), dissolved	µg/l	12	0.62	2.27	4.57	1.92	3.81	III
Chromium (Cr), total dissolved	µg/l	12 <	0.20	1.29	2.73	1.35	2.13	III
Lead (Pb), dissolved	µg/l	12 <	0.20	0.24	0.53	0.20	0.38	II
Cadmium (Cd), dissolved	µg/l	12 <	0.02	0.03	0.07	0.03	0.05	II
Mercury (Hg), dissolved	µg/l	12 <	0.050	0.115	0.170	0.115	0.170	III
Nickel (Ni), dissolved	µg/l	12	0.85	1.71	3.22	1.63	2.24	III
Arsenic (As), dissolved	µg/l	12	0.55	0.81	1.37	0.69	1.17	III
Aluminium (Al), dissolved	µg/l	12	2.70	31.54	79.00	33.25	48.61	
Zinc (Zn)	µg/l	12 <	5.00	11.00	23.00	9.50	17.00	II
Copper (Cu)	µg/l	12	1.17	4.46	9.53	3.56	9.22	II
Chromium (Cr) - total	µg/l	12	1.34	5.69	20.30	4.47	9.99	II
Lead (Pb)	µg/l	12 <	0.20	0.96	3.89	0.69	1.98	II
Cadmium (Cd)	µg/l	12 <	0.02	0.27	2.64	0.04	0.16	II
Mercury (Hg)	µg/l	12 <	0.050	0.166	0.310	0.175	0.209	IV
Nickel (Ni)	µg/l	12	1.32	4.03	17.70	2.55	4.06	II
Arsenic (As)	µg/l	12	0.77	1.18	2.49	1.13	1.54	II
Aluminium (Al)	µg/l	12	124.00	1226.67	4050.00	1006.00	2436.00	
Phenol index	mg/l	14	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	26 <	0.040 <	0.040	0.040	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6 <	0.010	0.013	0.020	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0042	0.0220	0.0010	0.0085	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.008	0.021	0.046	0.016	0.038	II
Chloroform	µg/l	12 <	0.10	0.34	1.10	0.10	0.86	III
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	-	2	2.06	2.07	2.07			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	26	2.000	49.077	600.000	10.500	85.000	
Faecal coliforms (44 C)	1000CFU/100m	12	0.200	2.033	7.600	1.000	4.740	
Faecal streptococci	1000CFU/100m	9	0.100	0.833	5.100	0.300		
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	2005
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	26	1.4	11.2	21.6	11.6	19.8	
Suspended solids	mg/l	13	4.0	29.4	54.0	25.0	51.4	
Dissolved oxygen	mg/l	26	6.8	10.8	14.6	11.0	8.6	I
BOD (5)	mg/l	26	0.9	3.2	6.3	3.2	4.9	II
COD (Mn)	mg/l	26	1.8	3.2	6.8	3.0	4.1	I
COD (Cr)	mg/l	26	5.0	9.9	21.0	9.5	12.5	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.7	8.1	8.5	8.2	8.3	II
							7.9	II
Alkalinity - total	mmol/l	12	2.4	3.3	4.0	3.4	4.0	
Ammonium (NH4-N)	mg/l	14 <	0.020	0.048	0.140	0.025	0.120	I
Nitrite (NO2-N)	mg/l	14	0.002	0.015	0.038	0.012	0.032	II
Nitrate (NO3-N)	mg/l	14	1.150	1.765	2.960	1.590	2.670	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	14	0.05	0.37	1.87	0.19	0.65	
Orthophosphate (PO4-P)	mg/l	14	0.007	0.050	0.095	0.052	0.083	II
Total phosphorus	mg/l	26	0.055	0.166	0.600	0.120	0.335	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	2.0	17.5	74.6	11.8	43.2	II
Conductivity	µS/cm	26	314	394	480	384	452	
Calcium (Ca++)	mg/l	12	52.0	61.8	76.0	61.0	69.6	
Sulphate (SO4--)	mg/l	12	24.9	33.1	44.6	30.0	42.2	
Magnesium (Mg++)	mg/l	12	4.9	13.9	19.5	14.0	19.3	
Potassium (K+)	mg/l	12	4.0	4.0	4.0	4.0	4.0	
Sodium (Na+)	mg/l	12	9.0	15.2	23.5	13.5	20.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	13.5	22.2	36.2	19.9	34.1	
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							
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	3	0.0020	0.0020	0.0020			
Anionic active surfactants (PAL-A)	mg/l	24 <	0.040 <	0.040 :	0.040	0.040	0.040	
AOX	mg/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	26	0.000	78.462	450.000	34.000	250.000	
Faecal coliforms (44 C)	1000CFU/100m	6	0.400	7.400	22.400	5.300		
Faecal streptococci	1000CFU/100m	5	0.100	2.060	5.500	2.100		
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
 2005
 H02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s	365	973.0	2085.6	5840.0	1760.0	3538.0		
Temperature	°C	27	1.4	11.2	20.4	11.4	19.4		
Suspended solids	mg/l	15	4.0	32.8	67.0	30.0	59.6		
Dissolved oxygen	mg/l	27	6.9	10.6	14.7	10.5	8.2	I	
BOD (5)	mg/l	27	< 0.2	3.0	5.9	2.8	4.6	II	
COD (Mn)	mg/l	27	1.9	3.2	6.9	3.0	4.1	I	
COD (Cr)	mg/l	27	5.0	10.0	21.0	9.0	12.4	II	
TOC	mg/l								
DOC	mg/l								
pH	-	27	7.7	8.1	8.5	8.2	8.3	II	
							7.9	II	
Alkalinity - total	mmol/l	14	2.5	3.2	4.2	3.2	3.9		
Ammonium (NH4-N)	mg/l	26	<	0.020	0.050	0.240	0.125	I	
Nitrite (NO2-N)	mg/l	26	<	0.002	0.020	0.037	0.020	II	
Nitrate (NO3-N)	mg/l	26	1.110	1.965	3.210	1.865	2.790	II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l	26	<	0.01	0.39	2.36	0.28	0.69	
Orthophosphate (PO4-P)	mg/l	26	<	0.000	0.051	0.117	0.052	0.087	II
Total phosphorus	mg/l	27	0.052	0.151	0.640	0.110	0.282	III	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	27	2.0	18.9	78.1	13.0	41.4	II	
Conductivity	µS/cm	27	312	394	478	383	462		
Calcium (Ca++)	mg/l	14	48.0	60.7	78.0	61.0	67.4		
Sulphate (SO4--)	mg/l	14	23.0	31.1	44.2	28.3	41.5		
Magnesium (Mg++)	mg/l	14	4.9	14.1	23.1	14.6	17.0		
Potassium (K+)	mg/l	14	4.0	4.0	4.0	4.0	4.0		
Sodium (Na+)	mg/l	14	9.0	14.2	23.5	12.4	19.9		
Manganese (Mn)	mg/l	14	0.0200	0.0757	0.1900	0.0500	0.1590		
Iron (Fe)	mg/l	14	0.110	0.329	0.820	0.315	0.474		
Chloride (Cl-)	mg/l	14	12.8	21.2	31.9	19.6	30.8		
Silicates (SiO2)	mg/l	6	2.80	4.90	5.80	5.25			
Zinc (Zn), dissolved	µg/l	12	<	5.00	7.58	21.00	5.00	11.80	III
Copper (Cu), dissolved	µg/l	12	0.56	2.08	4.83	1.81	4.38	III	
Chromium (Cr), total dissolved	µg/l	12	0.33	2.46	9.19	2.10	3.90	III	
Lead (Pb), dissolved	µg/l	12	<	0.20	0.33	1.37	0.20	0.51	II
Cadmium (Cd), dissolved	µg/l	12	<	0.02	0.03	0.06	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	<	0.050	0.119	0.280	0.100	0.186	III
Nickel (Ni), dissolved	µg/l	12	0.98	1.61	3.30	1.38	2.18	III	
Arsenic (As), dissolved	µg/l	12	0.41	0.92	1.57	0.79	1.50	III	
Aluminium (Al), dissolved	µg/l	12	3.70	48.55	111.00	34.95	103.44		
Zinc (Zn)	µg/l	12	<	5.00	9.67	33.00	6.50	16.40	II
Copper (Cu)	µg/l	12	0.95	3.76	12.40	2.82	6.71	II	
Chromium (Cr) - total	µg/l	12	1.99	3.92	9.28	3.70	4.82	II	
Lead (Pb)	µg/l	12	<	0.20	1.13	4.81	0.57	3.42	II
Cadmium (Cd)	µg/l	12	<	0.02	0.04	0.11	0.03	0.05	II
Mercury (Hg)	µg/l	12	0.080	0.165	0.320	0.145	0.282	IV	
Nickel (Ni)	µg/l	12	1.22	4.67	27.50	2.54	5.21	II	
Arsenic (As)	µg/l	12	0.45	1.25	2.45	1.23	1.62	II	
Aluminium (Al)	µg/l	12	74.00	1029.33	3740.00	729.00	2253.00		
Phenol index	mg/l	13	0.0020	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	27	<	0.040	<	0.040	0.040	0.040	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	6	0.020	0.048	0.160	0.025			
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	12	0.0010	0.0078	0.0770	0.0010	0.0047	I	
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II	
Atrazine	µg/l	12	<	0.001	0.016	0.036	0.014	0.030	II
Chloroform	µg/l	12	<	0.10	0.24	0.60	0.10	0.50	II
Carbon tetrachloride	µg/l	12	<	0.10	<	0.10	0.10	0.10	II
Trichloroethylene	µg/l	12	<	0.10	<	0.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12	<	0.10	<	0.10	0.10	0.10	II
Macrozoobenthos sapr. index	-	1	2.04	2.04	2.04			II	
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	27	0.000	147.889	2000.000	21.000	290.000		
Faecal coliforms (44 C)	1000CFU/100m	6	0.600	9.033	19.000	7.800			
Faecal streptococci	1000CFU/100m	5	0.100	2.080	4.100	2.000			
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	Catchment: 150820 km2	2005
Distance from the mouth 1768	Altitude: 101 m	H02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	1.4	11.2	21.7	11.5	19.8	
Suspended solids	mg/l	12	2.0	30.4	86.0	28.5	47.5	
Dissolved oxygen	mg/l	26	6.8	11.0	14.7	11.0	9.0	I
BOD (5)	mg/l	26	0.4	3.2	5.7	3.2	5.2	III
COD (Mn)	mg/l	26	1.9	3.2	6.9	3.0	4.1	I
COD (Cr)	mg/l	26	4.0	9.9	23.0	9.5	12.5	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.7	8.1	8.5	8.1	8.3	II
							7.9	II
Alkalinity - total	mmol/l	12	2.4	3.3	4.1	3.5	3.9	
Ammonium (NH4-N)	mg/l	14 <	0.020	0.051	0.150	0.020	0.140	I
Nitrite (NO2-N)	mg/l	14	0.002	0.016	0.036	0.013	0.034	II
Nitrate (NO3-N)	mg/l	14	1.110	1.772	2.980	1.525	2.796	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	13	0.07	0.38	1.63	0.19	0.95	
Orthophosphate (PO4-P)	mg/l	14	0.007	0.055	0.143	0.053	0.080	II
Total phosphorus	mg/l	26	0.054	0.162	0.700	0.120	0.340	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	26	2.0	18.5	77.0	11.8	39.7	II
Conductivity	µS/cm	26	313	395	482	393	450	
Calcium (Ca++)	mg/l	12	52.0	62.4	73.0	63.0	69.8	
Sulphate (SO4--)	mg/l	12	23.5	32.9	47.5	29.3	42.6	
Magnesium (Mg++)	mg/l	12	4.9	13.1	23.1	13.2	17.0	
Potassium (K+)	mg/l	12	4.0	4.0	4.0	4.0	4.0	
Sodium (Na+)	mg/l	12	10.5	15.1	23.5	13.0	20.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	12.8	22.1	34.8	21.7	33.4	
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							
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	4	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	26 <	0.040 <	0.040 :	0.040	0.040	0.040	
AOX	mg/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	26	0.000	101.231	600.000	42.000	345.000	
Faecal coliforms (44 C)	1000CFU/100m	6	1.200	8.233	20.000	7.200		
Faecal streptococci	1000CFU/100m	4	0.200	2.150	4.500	1.950		
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	2005
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	0.0	10.7	22.5	10.6	19.7	
Suspended solids	mg/l	24	6.0	31.0	286.0	15.0	37.7	
Dissolved oxygen	mg/l	24	6.0	9.2	12.5	9.5	6.9	II
BOD (5)	mg/l	24	< 0.2	3.7	12.8	3.4	4.5	II
COD (Mn)	mg/l	24	2.4	5.0	15.0	4.2	6.3	II
COD (Cr)	mg/l	24	10.0	16.1	40.0	14.0	20.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.6	8.2	8.8	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l	24	1.5	3.1	4.1	3.2	3.6	
Ammonium (NH4-N)	mg/l	24	0.020	0.105	0.370	0.045	0.285	II
Nitrite (NO2-N)	mg/l	24	0.005	0.018	0.030	0.017	0.027	II
Nitrate (NO3-N)	mg/l	24	0.970	1.878	3.160	1.755	2.886	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	23	0.01	0.05	0.15	0.04	0.11	
Orthophosphate (PO4-P)	mg/l	24	0.001	0.062	0.134	0.061	0.106	III
Total phosphorus	mg/l	24	< 0.020	0.106	0.170	0.113	0.160	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	< 2.0	13.7	32.8	9.8	27.9	II
Conductivity	µS/cm	24	230	392	520	400	490	
Calcium (Ca++)	mg/l	24	27.4	51.5	62.7	51.0	61.9	
Sulphate (SO4--)	mg/l	24	21.6	49.0	108.0	40.8	76.9	
Magnesium (Mg++)	mg/l	24	8.8	14.3	31.2	13.1	19.0	
Potassium (K+)	mg/l	24	1.7	3.6	6.1	3.9	4.7	
Sodium (Na+)	mg/l	24	8.4	15.0	23.1	15.8	20.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	24	< 0.040	0.114	0.610	0.080	0.157	
Chloride (Cl-)	mg/l	24	14.7	24.7	35.0	23.9	34.0	
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							
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	13	0.0020	0.0047	0.0150	0.0030	0.0110	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.020	0.055	0.090	0.060	0.080	
AOX	mg/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	-	2	2.08	2.14	2.19			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	18	7.500	32.117	120.000	19.000	69.500	
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 1708
 Location: Middle

Catchment: 183350 km2
 Altitude: 100 m
 2005
 H03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	1020.0	2329.1	5770.0	1990.0	3898.0	
Temperature	°C	24	0.0	10.8	22.0	11.0	19.9	
Suspended solids	mg/l	24	5.0	21.3	100.0	13.5	38.2	
Dissolved oxygen	mg/l	24	6.5	9.4	12.4	9.5	7.2	I
BOD (5)	mg/l	24	2.3	3.5	6.6	3.4	4.1	II
COD (Mn)	mg/l	24	2.7	4.0	7.9	3.5	5.6	II
COD (Cr)	mg/l	24	9.0	21.5	203.0	13.0	19.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.9	8.3	8.8	8.3	8.6	III
							8.0	II
Alkalinity - total	mmol/l	24	1.5	3.1	4.3	3.2	3.7	
Ammonium (NH4-N)	mg/l	24 <	0.020	0.072	0.340	0.035	0.157	I
Nitrite (NO2-N)	mg/l	24	0.005	0.016	0.032	0.015	0.026	II
Nitrate (NO3-N)	mg/l	24	1.080	1.920	3.280	1.640	3.087	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	22	0.01	0.06	0.22	0.04	0.12	
Orthophosphate (PO4-P)	mg/l	24	0.007	0.038	0.065	0.038	0.064	II
Total phosphorus	mg/l	24 <	0.020	0.072	0.120	0.080	0.110	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13 <	2.0	15.5	36.6	11.5	29.3	II
Conductivity	µS/cm	24	290	374	490	350	457	
Calcium (Ca++)	mg/l	24	41.5	51.7	64.3	49.1	59.0	
Sulphate (SO4--)	mg/l	24	19.2	41.8	79.2	38.4	54.1	
Magnesium (Mg++)	mg/l	24	6.1	13.1	21.7	12.4	17.8	
Potassium (K+)	mg/l	24	1.7	2.8	4.1	2.8	3.5	
Sodium (Na+)	mg/l	24	8.1	13.6	22.8	13.2	19.2	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	23	0.050	0.082	0.200	0.070	0.134	
Chloride (Cl-)	mg/l	24	17.0	24.4	35.0	24.8	32.5	
Silicates (SiO2)	mg/l	6	2.50	4.52	5.40	4.80		
Zinc (Zn), dissolved	µg/l	12	9.00	25.00	53.00	20.00	38.60	III
Copper (Cu), dissolved	µg/l	12	0.96	2.06	5.60	1.96	2.42	III
Chromium (Cr), total dissolved	µg/l	12	0.48	1.87	3.66	1.84	3.15	III
Lead (Pb), dissolved	µg/l	12 <	0.20	0.23	0.58	0.20	0.23	II
Cadmium (Cd), dissolved	µg/l	12 <	0.02	0.02	0.04	0.02	0.02	II
Mercury (Hg), dissolved	µg/l	12 <	0.050	0.078	0.170	0.075	0.098	II
Nickel (Ni), dissolved	µg/l	12	0.94	1.82	2.96	1.81	2.62	III
Arsenic (As), dissolved	µg/l	12	0.49	0.97	1.79	0.89	1.47	III
Aluminium (Al), dissolved	µg/l	12	5.40	53.86	178.00	33.30	113.08	
Zinc (Zn)	µg/l	12	14.00	40.42	80.00	31.50	74.60	II
Copper (Cu)	µg/l	12	1.05	3.52	6.39	3.27	5.70	II
Chromium (Cr) - total	µg/l	12	2.08	4.18	7.97	3.62	7.38	II
Lead (Pb)	µg/l	12 <	0.20	1.03	3.68	0.66	2.00	II
Cadmium (Cd)	µg/l	12 <	0.02	0.05	0.18	0.03	0.07	II
Mercury (Hg)	µg/l	12	0.080	0.190	0.750	0.095	0.337	IV
Nickel (Ni)	µg/l	12	1.57	2.74	6.24	2.46	3.46	II
Arsenic (As)	µg/l	12	0.71	1.29	2.82	1.16	1.76	II
Aluminium (Al)	µg/l	12	396.00	1197.00	3330.00	952.00	2482.00	
Phenol index	mg/l	13	0.0020	0.0046	0.0150	0.0020	0.0124	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.020	0.051	0.080	0.060	0.070	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6 <	0.010	0.018	0.030	0.020		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0043	0.0320	0.0013	0.0047	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12 <	0.001	0.014	0.026	0.014	0.025	II
Chloroform	µg/l	12 <	0.10	0.48	3.50	0.10	0.49	II
Carbon tetrachloride	µg/l	12 <	0.10	0.18	0.60	0.10	0.46	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	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	22	0.000	92.668	1500.000	12.000	82.600	
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: 183350 km2	2005
Distance from the mouth 1708	Altitude: 100 m	H03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	0.0	10.9	23.3	11.1	20.2	
Suspended solids	mg/l	24	6.0	21.0	113.0	14.5	28.7	
Dissolved oxygen	mg/l	24	6.2	9.2	12.0	9.6	6.8	II
BOD (5)	mg/l	24	2.2	3.3	4.7	3.2	4.0	II
COD (Mn)	mg/l	24	2.9	4.1	8.0	3.8	5.4	II
COD (Cr)	mg/l	24	9.0	13.7	22.0	12.5	18.8	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.7	8.3	8.8	8.3	8.5	III
							8.0	II
Alkalinity - total	mmol/l	24	1.6	3.2	4.3	3.2	3.7	
Ammonium (NH4-N)	mg/l	24 <	0.020	0.078	0.290	0.040	0.215	II
Nitrite (NO2-N)	mg/l	24	0.005	0.017	0.033	0.015	0.027	II
Nitrate (NO3-N)	mg/l	24	1.060	1.968	3.680	1.570	3.181	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	24	0.01	0.05	0.24	0.03	0.13	
Orthophosphate (PO4-P)	mg/l	24	0.007	0.044	0.111	0.046	0.068	II
Total phosphorus	mg/l	24 <	0.020	0.081	0.162	0.095	0.127	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13 <	2.0	14.7	34.9	11.3	26.0	II
Conductivity	µS/cm	24	270	381	500	360	484	
Calcium (Ca++)	mg/l	24	33.2	52.7	68.5	52.0	61.7	
Sulphate (SO4--)	mg/l	24	24.0	41.6	68.2	38.5	57.2	
Magnesium (Mg++)	mg/l	24	7.9	13.3	22.5	12.4	17.2	
Potassium (K+)	mg/l	24	1.7	3.1	5.1	3.0	4.3	
Sodium (Na+)	mg/l	24	9.5	14.3	23.6	12.4	20.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l	24	0.050	0.099	0.360	0.085	0.171	
Chloride (Cl-)	mg/l	24	15.7	23.7	35.0	24.0	31.8	
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							
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	13	0.0020	0.0045	0.0140	0.0030	0.0102	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.020	0.051	0.090	0.060	0.080	
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	-	2	2.05	2.07	2.08			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	21	0.000	30.443	110.000	14.000	90.000	
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: 188700 km2	2005
Distance from the mouth 1560	Altitude: 89 m	H04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	14	1100.0	1959.3	3870.0	1810.0	3032.0	
Temperature	°C	14	0.9	10.1	23.3	9.5	20.8	
Suspended solids	mg/l	12	5.0	23.0	50.0	20.0	33.9	
Dissolved oxygen	mg/l	14	8.6	11.4	13.6	11.4	9.9	I
BOD (5)	mg/l	13	1.0	2.8	5.3	2.7	4.3	II
COD (Mn)	mg/l	9	< 0.2	3.8	5.8	4.0		II
COD (Cr)	mg/l	14	13.0	18.4	23.0	19.0	23.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	7	8.1	8.1	8.4	8.1		II
Alkalinity - total	mmol/l	12	2.4	3.1	3.8	3.2	3.7	II
Ammonium (NH4-N)	mg/l	14	< 0.020	0.106	0.300	0.045	0.245	II
Nitrite (NO2-N)	mg/l	14	0.010	0.025	0.043	0.025	0.040	II
Nitrate (NO3-N)	mg/l	14	0.800	2.179	4.000	2.100	3.270	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	4	0.36	0.57	0.84	0.54		
Orthophosphate (PO4-P)	mg/l	12	< 0.000	0.048	0.098	0.050	0.085	II
Total phosphorus	mg/l	14	0.110	0.131	0.160	0.130	0.157	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14	< 2.0	36.4	146.0	17.0	90.4	III
Conductivity	µS/cm	14	300	391	470	401	460	
Calcium (Ca++)	mg/l	6	45.2	55.9	62.0	57.0		
Sulphate (SO4--)	mg/l	6	28.0	39.2	47.0	42.0		
Magnesium (Mg++)	mg/l	6	11.2	14.5	16.4	14.9		
Potassium (K+)	mg/l	6	2.3	3.0	3.5	3.2		
Sodium (Na+)	mg/l	6	9.2	15.6	22.0	15.8		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	6	13.0	22.5	33.0	21.5		
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							
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	6	0.0020	0.0022	0.0030	0.0020		
Anionic active surfactants (PAL-A)	mg/l	8	< 0.020	< 0.020	: 0.020	0.020		
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	7	14.500	165.500	500.000	140.000		
Faecal coliforms (44 C)	1000CFU/100m	6	3.000	21.183	57.500	11.150		
Faecal streptococci	1000CFU/100m	6	0.600	15.175	80.000	2.925		
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
 2005
 H04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	1050.0	2330.2	5740.0	1970.0	3916.0	
Temperature	°C	14	0.9	10.0	23.3	9.4	20.8	
Suspended solids	mg/l	13	5.0	22.2	51.0	21.0	34.0	
Dissolved oxygen	mg/l	14	8.8	11.2	13.7	11.1	9.9	I
BOD (5)	mg/l	13	1.6	3.1	4.7	3.0	4.3	II
COD (Mn)	mg/l	8	3.0	4.1	5.5	4.0		II
COD (Cr)	mg/l	14	13.0	18.1	24.0	19.0	21.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	7	8.1	8.1	8.4	8.1		II
Alkalinity - total	mmol/l	12	2.5	3.1	3.8	3.2	3.7	II
Ammonium (NH ₄ -N)	mg/l	14 <	0.020	0.099	0.290	0.050	0.215	II
Nitrite (NO ₂ -N)	mg/l	14	0.010	0.022	0.043	0.020	0.040	II
Nitrate (NO ₃ -N)	mg/l	14	0.800	2.127	3.730	2.200	3.134	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	4	0.24	0.63	0.90	0.69		
Orthophosphate (PO ₄ -P)	mg/l	12 <	0.000	0.045	0.080	0.058	0.072	II
Total phosphorus	mg/l	14	0.100	0.131	0.170	0.130	0.150	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14 <	2.0	35.2	156.0	10.5	91.6	III
Conductivity	µS/cm	14	294	390	474	401	452	
Calcium (Ca ⁺⁺)	mg/l	6	45.2	55.9	62.0	56.5		
Sulphate (SO ₄ ⁻⁻)	mg/l	6	28.0	38.5	47.0	41.0		
Magnesium (Mg ⁺⁺)	mg/l	6	10.8	14.3	16.4	14.5		
Potassium (K ⁺)	mg/l	6	2.3	2.9	3.4	3.1		
Sodium (Na ⁺)	mg/l	6	9.1	15.0	20.4	15.9		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl ⁻)	mg/l	6	13.0	21.2	31.0	22.0		
Silicates (SiO ₂)	mg/l	7	1.50	4.26	5.70	4.80		
Zinc (Zn), dissolved	µg/l	12 <	5.00	14.92	31.00	12.00	25.80	III
Copper (Cu), dissolved	µg/l	12	1.14	2.19	4.02	2.00	3.29	III
Chromium (Cr), total dissolved	µg/l	12	0.81	1.91	4.15	1.74	2.61	III
Lead (Pb), dissolved	µg/l	12 <	0.20	0.22	0.46	0.20	0.23	II
Cadmium (Cd), dissolved	µg/l	12 <	0.02	0.04	0.21	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12 <	0.050	0.094	0.200	0.080	0.137	III
Nickel (Ni), dissolved	µg/l	12	0.73	2.59	6.27	2.27	3.80	III
Arsenic (As), dissolved	µg/l	12	0.74	1.64	5.66	1.24	2.17	III
Aluminium (Al), dissolved	µg/l	12	14.10	58.78	148.00	37.65	123.30	
Zinc (Zn)	µg/l	12 <	5.00	32.50	91.00	28.00	69.50	II
Copper (Cu)	µg/l	12	1.41	4.73	15.90	3.69	7.28	II
Chromium (Cr) - total	µg/l	12	2.02	4.33	15.20	2.94	6.16	II
Lead (Pb)	µg/l	12 <	0.20	0.94	2.11	0.82	1.74	II
Cadmium (Cd)	µg/l	12 <	0.02	0.06	0.24	0.05	0.13	II
Mercury (Hg)	µg/l	12	0.070	0.134	0.240	0.130	0.227	IV
Nickel (Ni)	µg/l	12	1.28	4.13	12.30	2.94	7.02	II
Arsenic (As)	µg/l	12	1.01	2.04	7.22	1.41	2.66	II
Aluminium (Al)	µg/l	12	167.00	1185.00	3320.00	828.00	3123.00	
Phenol index	mg/l	6	0.0020	0.0025	0.0040	0.0020		
Anionic active surfactants (PAL-A)	mg/l	8 <	0.020 <	0.020	0.020	0.020		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6 <	0.010	0.020	0.030	0.020		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0029	0.0190	0.0010	0.0034	I
pp-DDT	µg/l	12	0.0050	0.0060	0.0170	0.0050	0.0050	II
Atrazine	µg/l	12	0.010	0.020	0.036	0.019	0.033	II
Chloroform	µg/l	12 <	0.10	0.13	0.20	0.10	0.20	II
Carbon tetrachloride	µg/l	12 <	0.10	0.13	0.40	0.10	0.10	II
Trichloroethylene	µg/l	12 <	0.10	0.36	3.20	0.10	0.10	II
Tetrachloroethylene	µg/l	12 <	0.10	0.24	1.80	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.05	2.12	2.18			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	7	29.000	538.429	2250.000	210.000		
Faecal coliforms (44 C)	1000CFU/100m	6	4.000	20.850	47.500	10.000		
Faecal streptococci	1000CFU/100m	6	1.900	13.867	60.000	4.800		
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: 188700 km2	2005
Distance from the mouth 1560	Altitude: 89 m	H04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	14	1100.0	1959.3	3870.0	1810.0	3032.0	
Temperature	°C	15	0.9	9.5	23.3	9.3	20.6	
Suspended solids	mg/l	12	3.0	24.3	56.0	23.5	49.9	
Dissolved oxygen	mg/l	14	8.4	11.1	13.7	10.9	9.8	I
BOD (5)	mg/l	13	1.8	3.2	5.0	2.9	4.6	II
COD (Mn)	mg/l	8	2.8	4.4	6.6	3.9		II
COD (Cr)	mg/l	14	13.0	18.8	25.0	18.5	23.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	7	7.9	8.1	8.3	8.1		II
Alkalinity - total	mmol/l	12	2.6	3.2	3.8	3.2	3.7	II
Ammonium (NH4-N)	mg/l	14 <	0.020	0.097	0.290	0.055	0.209	II
Nitrite (NO2-N)	mg/l	14	0.010	0.024	0.040	0.020	0.040	II
Nitrate (NO3-N)	mg/l	14	0.800	2.193	3.910	2.200	3.376	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	4	0.36	0.65	0.89	0.68		
Orthophosphate (PO4-P)	mg/l	12 <	0.000	0.047	0.100	0.060	0.072	II
Total phosphorus	mg/l	14	0.110	0.139	0.180	0.130	0.170	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	14 <	2.0	35.1	149.0	14.0	95.7	III
Conductivity	µS/cm	14	302	398	478	410	466	
Calcium (Ca++)	mg/l	6	44.4	55.6	62.0	56.5		
Sulphate (SO4--)	mg/l	6	28.0	38.3	45.0	42.0		
Magnesium (Mg++)	mg/l	6	11.2	14.2	17.3	14.5		
Potassium (K+)	mg/l	6	2.5	3.2	4.0	3.3		
Sodium (Na+)	mg/l	6	9.6	17.0	26.0	17.3		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	6	13.0	23.2	35.0	23.0		
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							
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	6	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	8 <	0.020 <	0.020 :	0.020	0.020		
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	7	29.000	434.571	1850.000	250.000		
Faecal coliforms (44 C)	1000CFU/100m	5	9.000	36.100	70.000	30.000		
Faecal streptococci	1000CFU/100m	6	0.100	4.283	7.700	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: Danube	Catchment: 211503 km2	2005
Distance from the mouth 1435	Altitude: 79 m	H05
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s	6	0.1	2.5	5.8	2.1			
Temperature	°C	14	2.0	10.7	22.2	10.0	21.5		
Suspended solids	mg/l	12	3.0	6.1	15.0	5.0	7.0		
Dissolved oxygen	mg/l	14	2.3	7.9	12.8	8.0	3.3	V	
BOD (5)	mg/l	14	2.0	3.7	5.2	3.8	4.4	II	
COD (Mn)	mg/l	14	4.3	7.2	10.6	7.0	9.2	II	
COD (Cr)	mg/l	14	18.0	23.6	30.0	23.5	28.0	III	
TOC	mg/l								
DOC	mg/l								
pH	-	8	7.9	8.0	8.1	8.0		II	
Alkalinity - total	mmol/l	14	<	0.1	5.5	8.6	6.3	7.8	
Ammonium (NH4-N)	mg/l	15	<	0.020	0.132	0.510	0.100	0.274	II
Nitrite (NO2-N)	mg/l	11		0.009	0.017	0.030	0.012	0.030	II
Nitrate (NO3-N)	mg/l	14	<	0.100	0.586	2.700	0.405	1.300	II
Total nitrogen	mg/l								
Organic nitrogen	mg/l	12		0.20	0.54	0.88	0.53	0.82	
Orthophosphate (PO4-P)	mg/l	14	<	0.000	0.028	0.140	0.018	0.054	II
Total phosphorus	mg/l	14		0.040	0.094	0.210	0.085	0.137	II
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	14	<	2.0	17.2	46.0	14.2	35.1	II
Conductivity	µS/cm	15		398	622	790	665	765	
Calcium (Ca++)	mg/l	12		48.4	78.6	117.0	79.0	97.7	
Sulphate (SO4--)	mg/l	12		18.0	35.1	55.0	36.5	45.0	
Magnesium (Mg++)	mg/l	13		17.6	29.6	38.5	30.5	37.0	
Potassium (K+)	mg/l	12		3.1	4.6	9.5	4.2	5.8	
Sodium (Na+)	mg/l	12		16.5	27.5	35.5	28.7	33.1	
Manganese (Mn)	mg/l								
Iron (Fe)	mg/l								
Chloride (Cl-)	mg/l	12		16.0	20.0	28.0	19.5	23.7	
Silicates (SiO2)	mg/l	6		3.00	4.83	5.60	5.10		
Zinc (Zn), dissolved	µg/l	12	<	5.00	15.08	34.00	12.50	27.70	III
Copper (Cu), dissolved	µg/l	12		1.08	2.09	4.20	1.86	3.60	III
Chromium (Cr), total dissolved	µg/l	12		0.51	2.72	12.90	2.06	2.47	III
Lead (Pb), dissolved	µg/l	12	<	0.20	0.20	0.23	0.20	0.20	II
Cadmium (Cd), dissolved	µg/l	12	<	0.02	0.02	0.05	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	<	0.050	0.103	0.210	0.090	0.150	III
Nickel (Ni), dissolved	µg/l	12		0.98	1.91	5.47	1.50	2.66	III
Arsenic (As), dissolved	µg/l	12		0.94	2.12	11.10	1.32	2.07	III
Aluminium (Al), dissolved	µg/l	12		11.90	49.29	133.00	36.90	89.17	
Zinc (Zn)	µg/l	12	<	5.00	37.58	110.00	27.50	95.90	II
Copper (Cu)	µg/l	12		1.26	4.41	11.40	3.71	9.55	II
Chromium (Cr) - total	µg/l	12		2.24	4.50	14.10	3.20	8.89	II
Lead (Pb)	µg/l	12	<	0.20	1.24	4.07	0.89	2.61	II
Cadmium (Cd)	µg/l	12	<	0.02	0.08	0.22	0.06	0.19	II
Mercury (Hg)	µg/l	12		0.090	0.146	0.220	0.145	0.206	IV
Nickel (Ni)	µg/l	12		1.19	3.74	8.47	3.02	7.10	II
Arsenic (As)	µg/l	12		1.09	1.70	2.85	1.48	2.43	II
Aluminium (Al)	µg/l	12		286.00	1278.75	3770.00	825.00	2698.00	
Phenol index	mg/l	12		0.0020	0.0022	0.0030	0.0020	0.0029	
Anionic active surfactants (PAL-A)	mg/l	14	<	0.020	<	0.020	0.020	0.020	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	6	<	0.010	0.020	0.040	0.020		
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l	12		0.0010	0.0024	0.0110	0.0010	0.0065	I
pp-DDT	µg/l	12		0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12		0.005	0.020	0.048	0.016	0.038	II
Chloroform	µg/l	12	<	0.10	0.15	0.40	0.10	0.29	II
Carbon tetrachloride	µg/l	12	<	0.10	0.13	0.30	0.10	0.19	II
Trichloroethylene	µg/l	12	<	0.10	0.11	0.20	0.10	0.10	II
Tetrachloroethylene	µg/l	12	<	0.10	<	0.10	<	0.10	II
Macrozoobenthos sapr. index	-	2		2.09	2.13	2.16			II
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	2		1.000	2.500	4.000			
Faecal coliforms (44 C)	1000CFU/100m	1		1.000	1.000	1.000			
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: /Sio	Catchment: 14693 km2	2005
Distance from the mouth 13	Altitude: 85 m	H06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3.6	16.5	50.8	11.8	37.4	
Temperature	°C	26	0.0	12.8	27.1	12.8	23.2	
Suspended solids	mg/l	12	8.0	76.3	356.0	20.0	147.6	
Dissolved oxygen	mg/l	26	4.4	9.5	13.8	9.8	5.7	III
BOD (5)	mg/l	26	2.2	4.2	8.0	4.0	5.2	III
COD (Mn)	mg/l	10	5.3	7.5	10.0	6.9		II
COD (Cr)	mg/l	26	17.0	26.8	42.0	25.0	37.0	III
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.6	8.2	8.5	8.2	8.4	II
							8.0	II
Alkalinity - total	mmol/l	11	6.4	8.0	9.1	8.0	8.8	
Ammonium (NH4-N)	mg/l	26 <	0.020	0.262	1.000	0.110	0.790	IV
Nitrite (NO2-N)	mg/l	26	0.027	0.065	0.112	0.056	0.098	III
Nitrate (NO3-N)	mg/l	26	1.330	3.661	7.010	3.160	5.880	III
Total nitrogen	mg/l							
Organic nitrogen	mg/l	10 <	0.01	1.30	2.27	1.37		
Orthophosphate (PO4-P)	mg/l	26	0.108	0.309	0.440	0.316	0.426	IV
Total phosphorus	mg/l	26	0.183	0.524	1.530	0.478	0.773	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	11.8	66.4	204.0	42.9	165.8	IV
Conductivity	µS/cm	24	600	905	1070	940	1047	
Calcium (Ca++)	mg/l	6	75.0	103.8	116.0	110.5		
Sulphate (SO4--)	mg/l	6	110.0	152.0	187.0	160.5		
Magnesium (Mg++)	mg/l	6	48.0	62.8	69.0	65.5		
Potassium (K+)	mg/l	6	6.6	8.1	9.3	8.3		
Sodium (Na+)	mg/l	6	40.0	50.7	64.0	49.5		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	6	37.0	44.8	53.0	44.5		
Silicates (SiO2)	mg/l	7	3.90	9.06	11.20	10.10		
Zinc (Zn), dissolved	µg/l	12 <	5.00	25.67	59.00	18.00	54.10	III
Copper (Cu), dissolved	µg/l	12	0.92	1.78	2.82	1.61	2.78	III
Chromium (Cr), total dissolved	µg/l	12	0.47	2.36	5.06	2.24	3.76	III
Lead (Pb), dissolved	µg/l	12 <	0.20	0.24	0.38	0.20	0.37	II
Cadmium (Cd), dissolved	µg/l	12 <	0.02	0.03	0.07	0.02	0.05	II
Mercury (Hg), dissolved	µg/l	12 <	0.050	0.093	0.190	0.090	0.173	III
Nickel (Ni), dissolved	µg/l	12	1.49	2.52	5.10	2.31	3.37	III
Arsenic (As), dissolved	µg/l	12	1.01	3.13	6.41	2.69	4.57	III
Aluminium (Al), dissolved	µg/l	12	15.00	79.87	205.00	47.60	189.00	
Zinc (Zn)	µg/l	12	11.00	64.92	197.00	38.00	158.00	III
Copper (Cu)	µg/l	12	2.56	5.70	12.00	3.66	11.50	II
Chromium (Cr) - total	µg/l	12	2.68	7.53	14.80	6.62	11.37	II
Lead (Pb)	µg/l	12 <	0.20	1.37	2.47	1.46	2.32	II
Cadmium (Cd)	µg/l	12	0.02	0.12	0.33	0.08	0.29	II
Mercury (Hg)	µg/l	12	0.100	0.172	0.300	0.170	0.255	IV
Nickel (Ni)	µg/l	12	1.93	6.74	12.80	6.92	11.69	II
Arsenic (As)	µg/l	12	1.12	4.30	7.79	3.90	7.38	III
Aluminium (Al)	µg/l	12	378.00	2635.17	6790.00	2160.00	5703.00	
Phenol index	mg/l	3	0.0020	0.0020	0.0020			
Anionic active surfactants (PAL-A)	mg/l	16 <	0.010	0.018	0.053	0.013	0.038	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	0.020	0.030	0.040	0.030		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0023	0.0080	0.0011	0.0063	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.032	0.175	0.532	0.106	0.356	IV
Chloroform	µg/l	12 <	0.10	0.23	0.90	0.10	0.48	II
Carbon tetrachloride	µg/l	12 <	0.10	0.13	0.40	0.10	0.10	II
Trichloroethylene	µg/l	12 <	0.10	0.52	5.10	0.10	0.10	II
Tetrachloroethylene	µg/l	12 <	0.10	0.28	2.20	0.10	0.10	II
Macrozoobenthos sapr. index	-	2	2.03	2.04	2.04			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	7	2.200	34.886	120.000	20.000		
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
 Distance from the mouth 78
 Location: Middle

Catchment: 35764 km2
 Altitude: 92 m
 2005
 H07

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	120.0	509.3	1360.0	483.0	760.6	
Temperature	°C	23	2.4	13.2	24.2	13.3	21.4	
Suspended solids	mg/l	12	4.0	18.3	49.0	17.5	29.6	
Dissolved oxygen	mg/l	24	7.3	9.9	13.7	9.6	8.1	I
BOD (5)	mg/l	24	0.6	2.1	5.6	1.7	4.0	II
COD (Mn)	mg/l	24	1.9	3.3	5.8	3.0	5.1	II
COD (Cr)	mg/l	24	5.0	8.8	16.0	8.0	14.0	II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.0	8.0	8.3	8.1	8.2	II
							7.7	II
Alkalinity - total	mmol/l	12	2.6	3.1	3.9	3.0	3.8	
Ammonium (NH4-N)	mg/l	24 <	0.020	0.052	0.180	0.030	0.114	I
Nitrite (NO2-N)	mg/l	24	0.005	0.015	0.033	0.014	0.024	II
Nitrate (NO3-N)	mg/l	24	0.880	1.427	3.160	1.345	1.844	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	9	0.26	0.37	0.59	0.31		
Orthophosphate (PO4-P)	mg/l	24	0.020	0.045	0.059	0.049	0.059	II
Total phosphorus	mg/l	24	0.050	0.085	0.150	0.080	0.130	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	24	2.0	7.2	22.0	5.4	15.7	I
Conductivity	µS/cm	24	248	356	470	358	443	
Calcium (Ca++)	mg/l	12	38.4	48.8	63.4	47.5	59.9	
Sulphate (SO4--)	mg/l	12	26.9	34.1	49.5	31.0	47.9	
Magnesium (Mg++)	mg/l	12	10.0	14.3	21.3	13.8	16.7	
Potassium (K+)	mg/l	12	1.6	2.1	2.6	2.1	2.4	
Sodium (Na+)	mg/l	12	6.0	8.9	13.9	8.3	12.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	8.2	12.9	16.0	14.0	15.7	
Silicates (SiO2)	mg/l	6	3.50	7.15	8.10	7.75		
Zinc (Zn), dissolved	µg/l	12 <	5.00	11.58	24.00	11.50	19.50	III
Copper (Cu), dissolved	µg/l	12	0.64	1.31	2.63	1.20	2.25	III
Chromium (Cr), total dissolved	µg/l	12	0.71	1.55	2.46	1.36	2.29	III
Lead (Pb), dissolved	µg/l	12 <	0.20	0.20	0.23	0.20	0.20	II
Cadmium (Cd), dissolved	µg/l	12 <	0.02	0.02	0.04	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12 <	0.050	0.085	0.180	0.085	0.109	III
Nickel (Ni), dissolved	µg/l	12	0.43	1.88	5.08	1.41	4.64	III
Arsenic (As), dissolved	µg/l	12	0.91	1.26	1.60	1.29	1.55	III
Aluminium (Al), dissolved	µg/l	12	14.70	52.71	158.00	36.75	109.78	
Zinc (Zn)	µg/l	12 <	5.00	39.33	190.00	21.50	70.80	II
Copper (Cu)	µg/l	12	0.75	2.84	7.21	2.12	5.92	II
Chromium (Cr) - total	µg/l	12	1.91	4.36	15.60	3.51	4.64	II
Lead (Pb)	µg/l	12	0.58	1.31	2.35	1.24	2.15	II
Cadmium (Cd)	µg/l	12 <	0.02	0.06	0.11	0.06	0.10	II
Mercury (Hg)	µg/l	12	0.060	0.133	0.250	0.130	0.197	III
Nickel (Ni)	µg/l	12	1.08	4.09	14.90	2.27	9.04	II
Arsenic (As)	µg/l	12	1.25	1.74	2.72	1.67	2.05	II
Aluminium (Al)	µg/l	12	183.00	702.42	1920.00	554.50	1247.00	
Phenol index	mg/l	8	0.0020	0.0030	0.0040	0.0030		
Anionic active surfactants (PAL-A)	mg/l	14 <	0.040	0.048	0.090	0.040	0.067	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	0.010	0.015	0.030	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0039	0.0160	0.0010	0.0116	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.005	0.016	0.033	0.015	0.026	II
Chloroform	µg/l	12 <	0.10	0.14	0.40	0.10	0.20	II
Carbon tetrachloride	µg/l	12 <	0.10	0.13	0.40	0.10	0.19	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	-	2	2.03	2.10	2.16			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	24	2.200	398.342	3500.000	74.500	920.000	
Faecal coliforms (44 C)	1000CFU/100m	5	2.200	9.520	22.000	4.900		
Faecal streptococci	1000CFU/100m	4	0.200	5.700	20.000	1.300		
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	2005
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	15	0.1	9.5	22.0	10.2	19.8		
Suspended solids	mg/l	11	18.0	102.5	248.0	47.0	243.0		
Dissolved oxygen	mg/l	15	7.0	10.4	13.4	11.9	7.3	I	
BOD (5)	mg/l	11	0.7	2.4	4.7	2.3	3.0	I	
COD (Mn)	mg/l	15	2.8	5.2	8.9	4.4	8.5	II	
COD (Cr)	mg/l	12	10.0	21.3	34.0	22.0	26.0	III	
TOC	mg/l								
DOC	mg/l								
pH	-	15	7.5	7.9	8.2	7.9	8.1	II	
							7.7	II	
Alkalinity - total	mmol/l	12	1.8	2.9	3.7	3.0	3.6		
Ammonium (NH4-N)	mg/l	15	0.030	0.155	0.400	0.070	0.332	III	
Nitrite (NO2-N)	mg/l	15	0.009	0.016	0.024	0.018	0.021	II	
Nitrate (NO3-N)	mg/l	15	0.700	1.340	1.920	1.200	1.802	II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l	15	0.25	0.35	0.70	0.32	0.49		
Orthophosphate (PO4-P)	mg/l	15	0.016	0.056	0.078	0.065	0.077	II	
Total phosphorus	mg/l	14	0.100	0.192	0.360	0.170	0.287	III	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	15	<	2.0	9.7	82.0	3.6	13.4	I
Conductivity	µS/cm	15	283	458	600	450	596		
Calcium (Ca++)	mg/l	15	<	1.0	44.5	74.0	49.4	67.6	
Sulphate (SO4--)	mg/l	12	39.0	54.8	72.0	57.5	65.8		
Magnesium (Mg++)	mg/l	12	5.8	11.1	16.4	11.4	14.1		
Potassium (K+)	mg/l	12	2.4	4.2	5.4	4.2	5.3		
Sodium (Na+)	mg/l	12	17.0	31.6	50.0	30.0	45.9		
Manganese (Mn)	mg/l								
Iron (Fe)	mg/l								
Chloride (Cl-)	mg/l	12	18.0	46.2	82.0	42.5	69.0		
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								
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	0.0035	0.0070	0.0020	0.0059		
Anionic active surfactants (PAL-A)	mg/l	14	<	0.020	0.025	0.040	0.020	0.037	
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	14	6.000	36.786	190.000	26.500	40.000		
Faecal coliforms (44 C)	1000CFU/100m	6	5.000	12.667	19.000	12.500			
Faecal streptococci	1000CFU/100m	6	1.000	6.333	13.000	6.000			
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
 Distance from the mouth 163
 Location: Middle

Catchment: 138498 km2
 Altitude: 74 m
 2005
 H08

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	316.0	1099.2	2880.0	813.0	2480.0	
Temperature	°C	15	0.0	9.5	22.2	10.4	20.0	
Suspended solids	mg/l	10	16.0	88.5	199.0	53.5		
Dissolved oxygen	mg/l	13	6.9	9.9	12.9	9.5	7.2	I
BOD (5)	mg/l	10	0.9	2.3	4.2	2.3		II
COD (Mn)	mg/l	13	3.2	5.3	7.9	4.7	7.7	II
COD (Cr)	mg/l	10	12.0	18.9	27.0	18.5		III
TOC	mg/l							
DOC	mg/l							
pH	-	15	< 0.0	6.9	8.2	8.0	8.1	II
							2.9	III
Alkalinity - total	mmol/l	11	1.8	2.9	3.7	2.9	3.5	
Ammonium (NH4-N)	mg/l	13	0.030	0.132	0.400	0.070	0.248	II
Nitrite (NO2-N)	mg/l	13	0.006	0.015	0.021	0.015	0.021	II
Nitrate (NO3-N)	mg/l	13	0.770	1.216	1.760	1.130	1.628	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	13	0.25	0.36	0.64	0.32	0.49	
Orthophosphate (PO4-P)	mg/l	13	0.016	0.060	0.078	0.065	0.078	II
Total phosphorus	mg/l	12	0.110	0.207	0.350	0.185	0.310	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	13	< 2.0	14.0	70.0	3.8	43.8	II
Conductivity	µS/cm	15	< 20	376	580	400	541	
Calcium (Ca++)	mg/l	15	< 1.0	39.6	70.0	48.2	65.8	
Sulphate (SO4--)	mg/l	11	4.6	49.0	69.0	53.0	63.0	
Magnesium (Mg++)	mg/l	11	4.6	10.6	16.0	10.0	14.0	
Potassium (K+)	mg/l	11	2.4	4.1	5.4	4.1	5.2	
Sodium (Na+)	mg/l	11	16.0	29.9	48.0	29.0	44.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	17.0	42.5	77.0	39.0	66.0	
Silicates (SiO2)	mg/l	7	0.04	4.45	9.90	3.90		
Zinc (Zn), dissolved	µg/l	12	9.00	33.25	68.00	32.00	42.70	III
Copper (Cu), dissolved	µg/l	12	1.81	3.60	7.40	2.72	6.95	III
Chromium (Cr), total dissolved	µg/l	12	0.44	2.65	8.43	1.88	5.08	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.44	3.06	0.20	0.22	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.04	0.12	0.02	0.10	III
Mercury (Hg), dissolved	µg/l	12	0.060	0.097	0.160	0.100	0.136	III
Nickel (Ni), dissolved	µg/l	12	1.35	3.09	7.64	2.47	5.96	III
Arsenic (As), dissolved	µg/l	12	1.24	2.22	3.81	2.10	2.98	III
Aluminium (Al), dissolved	µg/l	12	4.80	188.53	1660.00	42.75	125.00	
Zinc (Zn)	µg/l	12	23.00	78.17	198.00	68.50	123.00	III
Copper (Cu)	µg/l	12	1.87	7.47	19.90	6.37	12.44	II
Chromium (Cr) - total	µg/l	12	1.50	6.79	15.30	6.32	12.26	II
Lead (Pb)	µg/l	12	< 0.20	1.90	6.12	0.99	5.34	III
Cadmium (Cd)	µg/l	12	0.04	0.14	0.31	0.11	0.23	II
Mercury (Hg)	µg/l	12	0.080	0.134	0.200	0.125	0.180	III
Nickel (Ni)	µg/l	12	1.67	4.99	12.00	4.15	7.54	II
Arsenic (As)	µg/l	12	1.55	3.27	5.86	3.20	4.87	II
Aluminium (Al)	µg/l	12	401.00	2714.42	7870.00	1475.00	5787.00	
Phenol index	mg/l	11	0.0020	0.0035	0.0080	0.0030	0.0060	
Anionic active surfactants (PAL-A)	mg/l	11	< 0.020	0.025	0.060	0.020	0.030	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	0.010	0.020	0.030	0.020		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0038	0.0160	0.0015	0.0138	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	< 0.001	0.065	0.320	0.041	0.102	III
Chloroform	µg/l	12	< 0.10	0.13	0.30	0.10	0.28	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	2.20	2.20	2.20			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	15.000	49.667	120.000	37.500	89.000	
Faecal coliforms (44 C)	1000CFU/100m	6	4.000	17.667	45.000	14.000		
Faecal streptococci	1000CFU/100m	6	3.000	4.667	6.000	5.000		
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	2005
Distance from the mouth 163	Altitude: 74 m	H08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	15	0.1	9.6	22.2	10.5	20.0	
Suspended solids	mg/l	11	10.0	78.1	196.0	44.0	184.0	
Dissolved oxygen	mg/l	15	6.6	10.1	13.0	11.1	7.0	I
BOD (5)	mg/l	12	1.0	2.9	4.7	3.0	4.5	II
COD (Mn)	mg/l	15	2.8	4.9	8.0	4.2	7.4	II
COD (Cr)	mg/l	12	12.0	19.8	31.0	19.5	27.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	15	7.5	7.9	8.1	7.9	8.1	II
							7.8	II
Alkalinity - total	mmol/l	12	1.9	2.9	3.8	3.0	3.6	
Ammonium (NH4-N)	mg/l	15	0.030	0.173	0.410	0.120	0.374	III
Nitrite (NO2-N)	mg/l	15	0.006	0.016	0.027	0.015	0.024	II
Nitrate (NO3-N)	mg/l	15	0.680	1.266	1.760	1.130	1.654	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	15	0.23	0.35	0.71	0.32	0.47	
Orthophosphate (PO4-P)	mg/l	15	0.033	0.067	0.091	0.068	0.087	II
Total phosphorus	mg/l	14	0.100	0.206	0.360	0.190	0.327	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	15	< 2.0	11.1	55.0	4.7	35.4	II
Conductivity	µS/cm	15	284	442	580	404	556	
Calcium (Ca++)	mg/l	15	< 1.0	43.7	75.0	48.5	67.3	
Sulphate (SO4--)	mg/l	12	39.0	53.6	66.0	55.5	65.8	
Magnesium (Mg++)	mg/l	12	6.0	11.2	16.3	11.4	15.4	
Potassium (K+)	mg/l	12	2.4	4.3	5.6	4.5	5.4	
Sodium (Na+)	mg/l	12	15.9	31.5	51.0	31.0	47.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	17.0	41.5	70.0	40.5	63.2	
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							
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	0.0036	0.0070	0.0030	0.0059	
Anionic active surfactants (PAL-A)	mg/l	14	< 0.020	0.028	0.080	0.020	0.047	
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	14	30.000	1304.857	7200.000	362.500	3550.000	
Faecal coliforms (44 C)	1000CFU/100m	6	35.000	912.167	4500.000	195.000		
Faecal streptococci	1000CFU/100m	6	6.000	47.233	180.000	17.500		
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: 148 m
 2005
 H09

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	4.3	19.3	142.0	12.7	39.8	
Temperature	°C	22	0.2	5.8	17.3	3.3	15.5	
Suspended solids	mg/l	12	7.0	22.1	58.0	17.5	37.4	
Dissolved oxygen	mg/l	22	8.4	11.4	13.5	11.5	8.4	I
BOD (5)	mg/l	22	1.7	3.8	7.6	3.9	5.5	III
COD (Mn)	mg/l	22	2.2	5.4	30.3	3.9	8.1	II
COD (Cr)	mg/l	22	9.0	16.0	52.0	12.5	28.1	III
TOC	mg/l							
DOC	mg/l							
pH	-	22	7.6	7.9	8.5	7.9	8.0	II
							7.7	II
Alkalinity - total	mmol/l	12	2.3	3.0	3.5	3.0	3.4	
Ammonium (NH4-N)	mg/l	22	0.070	0.171	0.260	0.185	0.230	II
Nitrite (NO2-N)	mg/l	22	0.015	0.025	0.049	0.021	0.036	II
Nitrate (NO3-N)	mg/l	22	0.900	2.207	2.940	2.260	2.728	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l	22	0.06	0.37	1.30	0.38	0.67	
Orthophosphate (PO4-P)	mg/l	22	0.039	0.067	0.186	0.062	0.087	II
Total phosphorus	mg/l	22	0.050	0.132	0.560	0.105	0.179	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	22	< 2.0	4.1	15.6	2.1	8.7	I
Conductivity	µS/cm	22	262	394	510	396	476	
Calcium (Ca++)	mg/l	12	41.9	59.6	71.4	60.4	69.3	
Sulphate (SO4--)	mg/l	12	41.1	65.3	94.0	62.5	85.7	
Magnesium (Mg++)	mg/l	12	8.7	15.9	27.7	15.2	23.3	
Potassium (K+)	mg/l	12	3.2	4.5	6.5	4.5	5.7	
Sodium (Na+)	mg/l	12	6.7	10.0	13.3	9.8	12.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	9.0	15.4	21.0	15.0	18.9	
Silicates (SiO2)	mg/l	6	3.00	8.08	10.80	8.65		
Zinc (Zn), dissolved	µg/l	12	< 5.00	14.17	33.00	13.00	30.80	III
Copper (Cu), dissolved	µg/l	12	0.65	2.60	14.20	1.58	2.75	III
Chromium (Cr), total dissolved	µg/l	12	0.76	2.09	3.69	2.11	3.60	III
Lead (Pb), dissolved	µg/l	12	< 0.20	0.26	0.88	0.20	0.20	II
Cadmium (Cd), dissolved	µg/l	12	< 0.02	0.02	0.04	0.02	0.03	II
Mercury (Hg), dissolved	µg/l	12	< 0.050	0.084	0.150	0.070	0.119	III
Nickel (Ni), dissolved	µg/l	12	0.51	1.66	3.96	1.56	2.24	III
Arsenic (As), dissolved	µg/l	12	1.10	1.61	2.36	1.41	2.29	III
Aluminium (Al), dissolved	µg/l	12	14.50	57.58	179.00	35.35	139.90	
Zinc (Zn)	µg/l	12	< 5.00	36.00	150.00	19.50	56.80	II
Copper (Cu)	µg/l	12	1.70	9.84	43.50	3.74	34.51	III
Chromium (Cr) - total	µg/l	12	2.26	8.24	48.70	3.47	13.49	II
Lead (Pb)	µg/l	12	< 0.20	3.22	26.30	0.59	3.67	II
Cadmium (Cd)	µg/l	12	< 0.02	0.06	0.30	0.04	0.07	II
Mercury (Hg)	µg/l	12	< 0.050	0.218	1.100	0.145	0.189	III
Nickel (Ni)	µg/l	12	1.04	6.67	40.50	3.36	6.85	II
Arsenic (As)	µg/l	12	1.37	4.40	25.30	2.38	4.77	II
Aluminium (Al)	µg/l	12	178.00	4731.08	36500.00	1085.00	10234.00	
Phenol index	mg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	22	< 0.020	0.022	0.027	0.020	0.025	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7	< 0.010	0.024	0.050	0.020		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0010	0.0040	0.0270	0.0011	0.0081	I
pp-DDT	µg/l	12	0.0050	0.0050	0.0050	0.0050	0.0050	II
Atrazine	µg/l	12	0.004	0.021	0.063	0.016	0.047	II
Chloroform	µg/l	12	< 0.10	0.26	0.90	0.10	0.50	II
Carbon tetrachloride	µg/l	12	< 0.10	0.12	0.20	0.10	0.19	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	-	2	2.21	2.23	2.24			II
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	14	22.000	568.929	5000.000	60.000	1140.000	
Faecal coliforms (44 C)	1000CFU/100m	6	6.000	24.667	70.000	8.000		
Faecal streptococci	1000CFU/100m	6	0.600	3.067	4.000	3.500		
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

2005

Distance from the mouth 300

Altitude: 192 m

SI01

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	63.0	282.8	1475.0	250.0	436.6	
Temperature	°C	24	0.7	10.1	21.0	10.3	18.7	
Suspended solids	mg/l	24	1.3	17.0	172.5	9.0	23.9	
Dissolved oxygen	mg/l	24	7.2	11.1	16.4	10.4	8.4	I
BOD (5)	mg/l	12	< 1.0	1.8	2.6	1.7	2.5	I
COD (Mn)	mg/l	24	0.9	2.0	6.6	1.8	2.8	I
COD (Cr)	mg/l	48	3.0	6.3	16.0	5.0	9.0	I
TOC	mg/l	18	0.9	1.4	2.7	1.3	1.9	
DOC	mg/l							
pH	-	24	7.5	7.8	8.2	7.8	8.1	II
							7.5	II
Alkalinity - total	mmol/l	24	1.8	2.3	2.8	2.3	2.6	
Ammonium (NH4-N)	mg/l	24	0.012	0.040	0.093	0.041	0.059	I
Nitrite (NO2-N)	mg/l	24	0.005	0.009	0.016	0.009	0.012	II
Nitrate (NO3-N)	mg/l	24	0.751	1.130	1.496	1.157	1.403	II
Total nitrogen	mg/l	18	0.90	1.22	1.60	1.25	1.50	I
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.002	0.009	0.023	0.010	0.015	I
Total phosphorus	mg/l	24	0.009	0.043	0.173	0.032	0.065	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	6	< 1.0	2.8	5.4	2.4		I
Conductivity	µS/cm	24	199	263	344	269	305	
Calcium (Ca++)	mg/l	28	31.0	40.7	47.5	42.0	45.5	
Sulphate (SO4--)	mg/l	24	16.1	23.4	31.1	23.4	28.9	
Magnesium (Mg++)	mg/l	24	6.6	9.7	13.6	9.8	12.4	
Potassium (K+)	mg/l	24	0.8	1.5	2.0	1.5	1.8	
Sodium (Na+)	mg/l	24	3.2	5.7	8.0	5.8	7.1	
Manganese (Mn)	mg/l	23	0.0022	0.0184	0.0393	0.0163	0.0328	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	3.7	6.4	13.9	5.7	7.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24	< 1.64	5.47	35.00	3.57	9.30	III
Copper (Cu), dissolved	µg/l	24	< 0.05	0.71	3.45	0.58	0.96	II
Chromium (Cr), total dissolved	µg/l	24	< 0.06	0.94	2.90	0.66	2.30	III
Lead (Pb), dissolved	µg/l	24	< 0.22	0.26	1.00	0.22	0.25	II
Cadmium (Cd), dissolved	µg/l	24	< 0.04	< 0.04	< 0.04	0.04	0.04	II
Mercury (Hg), dissolved	µg/l	13	< 0.030	0.032	0.050	0.030	0.030	II
Nickel (Ni), dissolved	µg/l	24	< 0.05	1.26	2.10	1.25	1.84	III
Arsenic (As), dissolved	µg/l	24	< 0.61	1.29	2.55	1.30	1.50	III
Aluminium (Al), dissolved	µg/l	24	< 0.80	8.35	30.20	6.60	17.55	
Zinc (Zn)	µg/l	24	< 1.64	8.63	39.20	6.44	15.07	II
Copper (Cu)	µg/l	24	< 0.05	0.88	3.58	0.58	1.81	II
Chromium (Cr) - total	µg/l	24	< 0.06	1.20	4.98	0.92	2.61	II
Lead (Pb)	µg/l	24	< 0.25	2.35	19.28	1.38	3.54	II
Cadmium (Cd)	µg/l	24	< 0.01	0.03	0.19	0.01	0.06	II
Mercury (Hg)	µg/l	11	< 0.030	0.032	0.050	0.030	0.030	II
Nickel (Ni)	µg/l	24	< 0.05	1.52	3.91	1.25	2.70	II
Arsenic (As)	µg/l	23	< 0.69	1.60	2.95	1.56	2.10	II
Aluminium (Al)	µg/l	21	< 3.70	332.40	1350.60	187.80	739.60	
Phenol index	mg/l	14	0.0020	0.0045	0.0070	0.0050	0.0060	
Anionic active surfactants (PAL-A)	mg/l	24	< 0.006	0.011	0.022	0.011	0.019	
AOX	µg/l	4	3.00	8.50	14.00	8.50		II
Petroleum hydrocarbons	mg/l	13	< 0.002	0.010	0.107	0.002	0.005	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l	4	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l							
Atrazine	µg/l	4	< 0.030	< 0.030	< 0.030	0.030		II
Chloroform	µg/l	4	< 0.30	< 0.30	< 0.30	0.30		II
Carbon tetrachloride	µg/l	4	< 0.10	< 0.10	< 0.10	0.10		II
Trichloroethylene	µg/l	4	< 0.20	< 0.20	< 0.20	0.20		II
Tetrachloroethylene	µg/l	4	< 0.10	< 0.10	< 0.10	0.10		II
Macrozoobenthos sapr. index	-	1	2.07	2.07	2.07			II
Macrozoobenthos no. of taxa	-	1	32	32	32			
Total coliforms (37 C)	1000CFU/100m	20	0.020	2.290	12.000	1.000	6.090	
Faecal coliforms (44 C)	1000CFU/100m	20	0.000	0.601	2.300	0.400	1.050	
Faecal streptococci	1000CFU/100m	20	0.000	0.142	0.800	0.070	0.464	
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

2005

Distance from the mouth 729

Altitude: 135 m

SI02

Location: Right

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	80.0	264.6	1552.0	194.0	493.8	
Temperature	°C	24	2.9	12.7	26.1	12.4	20.3	
Suspended solids	mg/l	24	1.9	18.4	161.8	4.4	32.5	
Dissolved oxygen	mg/l	24	8.3	10.6	14.7	10.3	9.3	I
BOD (5)	mg/l	21	1.0	2.4	4.5	2.2	4.0	II
COD (Mn)	mg/l	24	2.2	4.1	7.9	3.7	5.7	II
COD (Cr)	mg/l	48	6.0	10.2	21.0	9.0	14.0	II
TOC	mg/l	18	1.7	2.8	4.5	2.8	3.7	
DOC	mg/l							
pH	-	24	7.6	7.9	8.2	7.9	8.1	II
							7.7	II
Alkalinity - total	mmol/l	24	3.1	3.9	4.3	3.9	4.1	
Ammonium (NH4-N)	mg/l	24 <	0.004	0.035	0.143	0.016	0.096	I
Nitrite (NO2-N)	mg/l	24	0.004	0.020	0.053	0.019	0.033	II
Nitrate (NO3-N)	mg/l	24	1.346	1.705	2.084	1.652	1.989	II
Total nitrogen	mg/l	19	1.30	1.82	2.10	1.90	2.10	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	24	0.029	0.090	0.365	0.065	0.191	III
Total phosphorus	mg/l	24	0.046	0.126	0.391	0.101	0.224	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	305	380	462	381	430	
Calcium (Ca++)	mg/l	28	6.1	62.5	72.8	64.3	69.8	
Sulphate (SO4--)	mg/l	24	9.8	17.3	28.3	16.2	24.1	
Magnesium (Mg++)	mg/l	24	9.8	14.5	19.0	14.2	18.4	
Potassium (K+)	mg/l	24	0.6	1.3	1.6	1.3	1.6	
Sodium (Na+)	mg/l	24	3.9	6.9	16.5	6.1	9.4	
Manganese (Mn)	mg/l	23	0.0025	0.0156	0.0452	0.0130	0.0319	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	4.6	8.9	24.0	7.6	12.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	24 <	1.64	2.87	10.54	1.64	5.09	III
Copper (Cu), dissolved	µg/l	24 <	0.05	0.85	1.59	0.77	1.22	II
Chromium (Cr), total dissolved	µg/l	22	0.28	2.13	4.24	1.88	3.61	III
Lead (Pb), dissolved	µg/l	24 <	0.22 <	0.22 <	0.22 <	0.22	0.22	II
Cadmium (Cd), dissolved	µg/l	24 <	0.04 <	0.04 <	0.04 <	0.04	0.04	II
Mercury (Hg), dissolved	µg/l	13 <	0.030	0.045	0.190	0.030	0.056	II
Nickel (Ni), dissolved	µg/l	23	1.42	2.25	3.34	2.15	2.94	III
Arsenic (As), dissolved	µg/l	24 <	0.05	0.43	0.73	0.44	0.56	II
Aluminium (Al), dissolved	µg/l	24 <	0.80	11.74	93.40	8.10	16.57	
Zinc (Zn)	µg/l	24 <	1.64	4.60	27.00	1.95	9.59	II
Copper (Cu)	µg/l	24 <	0.05	1.22	6.85	0.90	1.95	II
Chromium (Cr) - total	µg/l	24 <	0.06	2.74	15.53	2.29	4.33	II
Lead (Pb)	µg/l	24 <	0.15	0.69	7.24	0.21	1.31	II
Cadmium (Cd)	µg/l	24 <	0.01	0.02	0.11	0.01	0.03	II
Mercury (Hg)	µg/l	9 <	0.030	0.034	0.060	0.030		II
Nickel (Ni)	µg/l	23	1.42	2.98	10.02	2.33	4.38	II
Arsenic (As)	µg/l	23	0.31	0.57	1.37	0.54	0.76	II
Aluminium (Al)	µg/l	22	12.10	340.63	2581.40	149.65	730.33	
Phenol index	mg/l	16	0.0040	0.0093	0.0360	0.0075	0.0125	
Anionic active surfactants (PAL-A)	mg/l	24 <	0.006	0.020	0.083	0.016	0.035	
AOX	µg/l	4	42.00	78.75	130.00	71.50		IV
Petroleum hydrocarbons	mg/l	13 <	0.002	0.016	0.046	0.010	0.033	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.0100	0.0100	0.0100	0.0100		I
pp-DDT	µg/l	5	0.0030	0.0030	0.0030	0.0030		II
Atrazine	µg/l	4 <	0.030 <	0.030 :	0.030	0.030		II
Chloroform	µg/l	4 <	0.30	1.28	2.50	1.15		V
Carbon tetrachloride	µg/l	4 <	0.10 <	0.10 <	0.10 <	0.10		II
Trichloroethylene	µg/l	4 <	0.20 <	0.20 <	0.20 <	0.20		II
Tetrachloroethylene	µg/l	4 <	0.10 <	0.10 <	0.10 <	0.10		II
Macrozoobenthos sapr. index	-	1	2.13	2.13	2.13			II
Macrozoobenthos no. of taxa	-	1	37	37	37			
Total coliforms (37 C)	1000CFU/100m	20	0.500	6.195	28.000	2.900	20.100	
Faecal coliforms (44 C)	1000CFU/100m	20	0.050	3.360	20.000	0.920	8.550	
Faecal streptococci	1000CFU/100m	20	0.010	0.380	1.700	0.235	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	Catchment: 210250 km2	2005
Distance from the mouth 1429	Altitude: 86 m	HR01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	8	1223.0	2317.5	4507.0	1904.5		
Temperature	°C	8	1.8	12.4	22.2	13.0		
Suspended solids	mg/l	8	9.0	22.3	55.0	16.0		
Dissolved oxygen	mg/l	8	6.6	10.2	13.3	10.5		II
BOD (5)	mg/l	8	2.3	3.3	5.2	2.6		III
COD (Mn)	mg/l	8	2.9	4.0	5.2	4.1		II
COD (Cr)	mg/l	8	11.0	13.5	18.0	12.5		II
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.6	8.3	8.7	8.2		III
Alkalinity - total	mmol/l							II
Ammonium (NH4-N)	mg/l	8	0.010	0.108	0.240	0.105		II
Nitrite (NO2-N)	mg/l	8	0.019	0.024	0.030	0.023		II
Nitrate (NO3-N)	mg/l	8	1.130	2.319	4.070	1.810		III
Total nitrogen	mg/l	8	1.36	2.61	4.39	2.10		III
Organic nitrogen	mg/l	8	0.08	0.16	0.23	0.18		
Orthophosphate (PO4-P)	mg/l	8	0.070	0.085	0.120	0.075		III
Total phosphorus	mg/l	8	0.080	0.118	0.150	0.120		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	371	428	538	415		
Calcium (Ca++)	mg/l	8	53.0	58.9	70.0	58.0		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	8.9	12.9	19.0	12.5		
Potassium (K+)	mg/l	8	2.0	2.7	4.0	2.6		
Sodium (Na+)	mg/l	8	9.0	14.8	19.0	15.0		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	8	14.0	19.8	28.0	18.5		
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							
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	8	0.0010	0.0013	0.0030	0.0010		
Anionic active surfactants (PAL-A)	mg/l	8 <	0.050	0.082	0.151	0.074		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8 <	0.002	0.017	0.041	0.013		
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	4	0.1000	0.1000	0.1000	0.1000		**
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	8	0.000	16.750	40.000	15.000		
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: 243147 km2	2005
Distance from the mouth 1337	Altitude: 89 m	HR02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	0.2	12.7	24.4	13.9	22.5	
Suspended solids	mg/l	26	5.0	42.7	161.0	28.0	84.0	
Dissolved oxygen	mg/l	26	6.0	10.1	13.6	10.1	6.8	II
BOD (5)	mg/l	26	0.1	3.4	5.8	3.2	5.1	III
COD (Mn)	mg/l	26	2.9	4.3	6.1	4.3	5.6	II
COD (Cr)	mg/l	26	5.2	12.5	21.7	11.6	16.5	II
TOC	mg/l							
DOC	mg/l							
pH	-	26	7.8	8.2	8.7	8.1	8.5	II
							8.0	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26 <	0.010	0.077	0.190	0.070	0.135	I
Nitrite (NO2-N)	mg/l	26	0.008	0.018	0.022	0.020	0.020	II
Nitrate (NO3-N)	mg/l	26	1.808	2.251	2.938	2.260	2.712	II
Total nitrogen	mg/l	26	1.97	2.57	3.42	2.53	3.08	II
Organic nitrogen	mg/l	26	0.05	0.22	0.53	0.21	0.35	
Orthophosphate (PO4-P)	mg/l	26	0.020	0.096	0.180	0.090	0.165	III
Total phosphorus	mg/l	26	0.070	0.215	0.400	0.210	0.385	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	335	416	558	406	482	
Calcium (Ca++)	mg/l	12	42.5	51.8	69.3	50.0	58.6	
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	12	6.3	10.0	15.2	9.0	13.5	
Potassium (K+)	mg/l	12	2.0	2.6	3.0	2.6	3.0	
Sodium (Na+)	mg/l	12	7.4	15.2	30.5	14.6	17.7	
Manganese (Mn)	mg/l	11	0.0053	0.0144	0.0367	0.0147	0.0167	
Iron (Fe)	mg/l	12	0.027	0.110	0.577	0.053	0.183	
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	12	0.0010	0.0015	0.0050	0.0010	0.0028	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.050	0.051	0.055	0.050	0.052	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.002	0.029	0.208	0.013	0.031	
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	3.500	15.733	49.000	9.200	32.000	
Faecal coliforms (44 C)	1000CFU/100m	12	0.260	10.004	33.000	6.350	23.000	
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	2005
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	11	0.6	11.9	23.3	14.0	19.7	
Suspended solids	mg/l	11	1.2	8.4	17.6	9.2	14.8	
Dissolved oxygen	mg/l	11	8.4	10.8	14.4	10.2	8.5	I
BOD (5)	mg/l	11	0.9	1.7	3.0	1.5	2.4	I
COD (Mn)	mg/l	11	1.2	2.1	3.5	2.2	2.8	I
COD (Cr)	mg/l	11	3.5	8.5	13.9	8.3	12.9	II
TOC	mg/l							
DOC	mg/l	11	0.8	1.5	4.6	1.1	1.8	
pH	-	11	7.9	8.1	8.5	8.1	8.2	II
							8.0	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	11	0.010	0.041	0.090	0.040	0.080	I
Nitrite (NO2-N)	mg/l	11	0.001	0.011	0.021	0.010	0.018	II
Nitrate (NO3-N)	mg/l	11	0.600	1.209	2.000	1.200	1.600	II
Total nitrogen	mg/l	11	0.81	1.64	2.78	1.46	2.62	II
Organic nitrogen	mg/l	11	0.10	0.36	1.02	0.29	0.58	
Orthophosphate (PO4-P)	mg/l	11 <	0.010	0.023	0.090	0.010	0.030	I
Total phosphorus	mg/l	11	0.010	0.112	0.280	0.050	0.220	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	228	289	374	280	352	
Calcium (Ca++)	mg/l	11	28.0	40.7	46.9	41.0	46.4	
Sulphate (SO4--)	mg/l	11	15.4	25.4	37.7	25.5	37.7	
Magnesium (Mg++)	mg/l	11	7.6	10.3	13.6	10.2	12.0	
Potassium (K+)	mg/l	11	0.4	1.4	2.3	1.4	1.9	
Sodium (Na+)	mg/l	11	1.7	4.7	7.9	5.0	7.1	
Manganese (Mn)	mg/l	11	0.0320	0.0737	0.1500	0.0730	0.0860	
Iron (Fe)	mg/l	11	0.027	0.174	0.520	0.160	0.271	
Chloride (Cl-)	mg/l	11	5.8	7.7	12.9	6.6	12.2	
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							
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	0.0015	0.0040	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.025	0.090	0.020	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.010	0.061	0.380	0.020	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	-	2	1.76	1.90	2.03			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
 Distance from the mouth 227
 Location: Middle

Catchment: 31038 km2
 Altitude: 123 m
 2005
 HR04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	9	242.0	387.0	604.0	376.0		
Temperature	°C	11	2.5	11.3	22.4	12.3	18.3	
Suspended solids	mg/l	11	6.0	25.5	90.0	20.0	35.0	
Dissolved oxygen	mg/l	11	7.4	10.1	13.0	9.8	7.8	I
BOD (5)	mg/l	11	0.6	2.1	4.2	1.9	3.6	II
COD (Mn)	mg/l	11	2.2	3.1	6.2	2.6	3.8	I
COD (Cr)	mg/l	11	4.0	8.7	17.0	7.6	14.5	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.1	7.7	8.0	7.9	8.0	II
							7.4	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	11	0.020	0.038	0.070	0.030	0.060	I
Nitrite (NO2-N)	mg/l							
Nitrate (NO3-N)	mg/l	11	0.820	1.310	1.890	1.330	1.880	II
Total nitrogen	mg/l	11	1.03	1.61	2.26	1.71	2.04	II
Organic nitrogen	mg/l	11	0.11	0.25	0.33	0.26	0.33	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	11	0.030	0.062	0.140	0.050	0.090	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	11	233	307	356	301	355	
Calcium (Ca++)	mg/l	11	34.0	46.8	56.0	47.3	54.0	
Sulphate (SO4--)	mg/l	3	18.2	23.5	33.0			
Magnesium (Mg++)	mg/l	11	8.2	11.8	20.0	11.0	15.0	
Potassium (K+)	mg/l	11	1.6	2.1	2.7	2.1	2.6	
Sodium (Na+)	mg/l	11	5.3	8.3	11.0	7.6	10.5	
Manganese (Mn)	mg/l	7	0.0160	0.0657	0.2760	0.0340		
Iron (Fe)	mg/l	7	0.163	0.494	0.805	0.434		
Chloride (Cl-)	mg/l	11	7.5	11.1	16.0	11.0	14.0	
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							
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	0.0025	0.0040	0.0020	0.0040	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.025	0.060	0.020	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.010	0.031	0.040	0.040	0.040	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0005	0.0638	0.1000	0.1000	0.1000	II
pp-DDT	µg/l	11	0.0001	0.0637	0.1000	0.1000	0.1000	V
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	7	3.300	152.086	930.000	9.300		
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: 37142 km2	2005
Distance from the mouth 78	Altitude: 92 m	HR05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.1	12.7	25.9	12.5	21.9	
Suspended solids	mg/l	12	6.0	20.0	46.0	19.0	37.5	
Dissolved oxygen	mg/l	12	7.3	10.3	14.0	9.5	8.3	I
BOD (5)	mg/l	12	0.9	2.2	4.5	1.9	4.0	II
COD (Mn)	mg/l	12	2.2	3.1	4.6	2.9	4.5	I
COD (Cr)	mg/l	12	4.7	8.4	17.0	7.0	12.8	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.8	8.1	7.9	8.1	II
							7.5	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12 <	0.010	0.038	0.090	0.025	0.079	I
Nitrite (NO2-N)	mg/l	5	0.008	0.012	0.016	0.010		II
Nitrate (NO3-N)	mg/l	12	0.700	1.323	1.980	1.340	1.870	II
Total nitrogen	mg/l	12	1.03	1.69	2.32	1.79	2.22	II
Organic nitrogen	mg/l	12	0.15	0.31	0.47	0.29	0.44	
Orthophosphate (PO4-P)	mg/l							
Total phosphorus	mg/l	12	0.040	0.064	0.100	0.055	0.098	I
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	237	317	388	317	378	
Calcium (Ca++)	mg/l	12	34.0	48.0	61.0	49.1	59.5	
Sulphate (SO4--)	mg/l	5	17.6	26.6	37.0	29.0		
Magnesium (Mg++)	mg/l	12	9.7	13.7	21.0	12.0	20.6	
Potassium (K+)	mg/l	12	1.5	2.3	2.9	2.3	2.9	
Sodium (Na+)	mg/l	12	5.8	9.2	13.0	9.4	12.8	
Manganese (Mn)	mg/l	8	0.0220	0.0520	0.2100	0.0295		
Iron (Fe)	mg/l	8	0.213	0.506	0.776	0.531		
Chloride (Cl-)	mg/l	12	7.5	12.3	18.0	12.5	16.0	
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							
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	0.0028	0.0060	0.0025	0.0040	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.024	0.070	0.020	0.039	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.010	0.035	0.100	0.040	0.042	
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	7	1.700	15.329	24.000	22.000		
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

2005

Distance from the mouth 729

Altitude: 131 m

HR06

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	3.4	12.1	25.7	12.2	18.5	
Suspended solids	mg/l	26	2.0	25.6	276.0	4.4	55.4	
Dissolved oxygen	mg/l	26	6.5	10.0	12.5	9.8	8.3	I
BOD (5)	mg/l	26	1.0	2.6	5.6	2.3	3.8	II
COD (Mn)	mg/l	26	2.0	4.8	10.8	4.2	7.2	II
COD (Cr)	mg/l	26	6.5	16.1	30.7	14.3	26.8	III
TOC	mg/l							
DOC	mg/l	12	1.2	2.0	3.2	1.8	2.8	
pH	-	26	7.6	8.0	8.4	8.1	8.2	II
							7.8	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26 <	0.010	0.072	0.480	0.050	0.115	I
Nitrite (NO2-N)	mg/l	26	0.007	0.023	0.045	0.020	0.036	II
Nitrate (NO3-N)	mg/l	26	1.100	1.742	3.200	1.700	2.150	II
Total nitrogen	mg/l	26	1.29	2.20	3.76	2.09	2.75	II
Organic nitrogen	mg/l	26	0.04	0.36	1.19	0.28	0.59	
Orthophosphate (PO4-P)	mg/l	26	0.010	0.071	0.310	0.060	0.100	II
Total phosphorus	mg/l	26	0.035	0.169	0.490	0.140	0.285	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	311	407	513	405	480	
Calcium (Ca++)	mg/l	12	47.7	59.9	71.8	60.2	68.2	
Sulphate (SO4--)	mg/l	12	9.4	16.4	32.5	14.8	21.3	
Magnesium (Mg++)	mg/l	12	12.5	16.0	19.9	15.8	19.4	
Potassium (K+)	mg/l	11	0.3	1.2	1.8	1.5	1.5	
Sodium (Na+)	mg/l	11	1.5	5.4	10.8	4.3	9.6	
Manganese (Mn)	mg/l	12	0.0150	0.1012	0.3580	0.0724	0.1974	
Iron (Fe)	mg/l	12	0.043	0.254	0.904	0.082	0.698	
Chloride (Cl-)	mg/l	12	4.6	9.2	20.6	8.0	12.9	
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							
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	0.0014	0.0040	0.0010	0.0028	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.025	0.070	0.015	0.066	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26 <	0.010	0.027	0.090	0.020	0.060	
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	2.07	2.10	2.07		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	2005
Distance from the mouth 525	Altitude: 87 m	HR07
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	26	1.7	12.6	27.0	12.3	21.3	
Suspended solids	mg/l	26	2.2	21.9	137.0	12.3	47.9	
Dissolved oxygen	mg/l	26	5.3	8.8	13.4	9.1	6.7	II
BOD (5)	mg/l	26	1.4	2.8	4.4	2.7	3.8	II
COD (Mn)	mg/l	26	2.9	4.5	7.0	4.5	5.7	II
COD (Cr)	mg/l	26	8.0	16.5	24.9	16.9	21.3	II
TOC	mg/l							
DOC	mg/l	12	1.7	2.5	3.7	2.3	3.6	
pH	-	26	7.5	7.9	8.4	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	26	0.010	0.175	0.570	0.125	0.405	III
Nitrite (NO2-N)	mg/l	26	0.007	0.050	0.568	0.028	0.047	II
Nitrate (NO3-N)	mg/l	26	0.900	1.388	3.000	1.250	1.600	II
Total nitrogen	mg/l	26	1.37	2.09	3.52	2.04	2.55	II
Organic nitrogen	mg/l	26	0.01	0.47	1.05	0.40	0.91	
Orthophosphate (PO4-P)	mg/l	26	0.030	0.086	0.200	0.080	0.160	III
Total phosphorus	mg/l	26	0.080	0.192	0.380	0.190	0.310	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	26	311	402	534	397	482	
Calcium (Ca++)	mg/l	12	52.3	60.0	73.9	57.6	69.5	
Sulphate (SO4--)	mg/l	12	7.3	14.0	21.9	13.6	18.6	
Magnesium (Mg++)	mg/l	12	10.1	14.9	18.0	15.2	18.0	
Potassium (K+)	mg/l	11	0.5	1.6	2.5	1.7	2.4	
Sodium (Na+)	mg/l	11	2.0	6.6	15.3	5.3	11.4	
Manganese (Mn)	mg/l	12	0.0030	0.0976	0.2930	0.0855	0.1421	
Iron (Fe)	mg/l	12	0.032	0.308	0.963	0.231	0.433	
Chloride (Cl-)	mg/l	12	4.5	8.4	12.4	8.2	11.4	
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							
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	0.0023	0.0060	0.0010	0.0058	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.033	0.090	0.020	0.079	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	26 <	0.010	0.052	0.520	0.030	0.080	
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	Catchment: 62890 km2	2005
Distance from the mouth 254	Altitude: 85 m	HR08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	3.3	13.8	26.3	13.3	21.5	
Suspended solids	mg/l	24	4.2	22.6	63.6	16.4	45.3	
Dissolved oxygen	mg/l	24	6.5	8.9	11.9	8.8	7.0	II
BOD (5)	mg/l	24	1.0	2.6	5.1	2.5	3.9	II
COD (Mn)	mg/l	24	2.5	3.8	5.6	3.5	4.9	I
COD (Cr)	mg/l	24	8.4	13.1	24.1	11.4	19.9	II
TOC	mg/l							
DOC	mg/l	11	1.7	2.2	3.6	1.9	2.9	
pH	-	24	7.5	8.0	8.2	8.1	8.2	II
							7.9	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	24	0.010	0.063	0.170	0.040	0.148	I
Nitrite (NO2-N)	mg/l	24	0.005	0.022	0.051	0.020	0.032	II
Nitrate (NO3-N)	mg/l	24	0.900	1.225	2.300	1.100	1.500	II
Total nitrogen	mg/l	24	1.30	1.83	3.30	1.71	2.44	II
Organic nitrogen	mg/l	24	0.24	0.52	1.00	0.44	0.91	
Orthophosphate (PO4-P)	mg/l	24	0.020	0.049	0.100	0.040	0.077	II
Total phosphorus	mg/l	24	0.050	0.173	0.490	0.150	0.287	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	309	409	548	406	473	
Calcium (Ca++)	mg/l	11	40.6	57.7	82.9	57.2	69.2	
Sulphate (SO4--)	mg/l	11	9.7	19.2	26.7	19.4	26.0	
Magnesium (Mg++)	mg/l	11	11.9	16.5	23.6	16.5	19.0	
Potassium (K+)	mg/l	11	0.4	1.4	1.9	1.5	1.9	
Sodium (Na+)	mg/l	11	1.1	7.5	16.0	5.8	12.7	
Manganese (Mn)	mg/l	11	0.0170	0.0810	0.1890	0.0740	0.1130	
Iron (Fe)	mg/l	11	0.079	0.271	0.622	0.239	0.550	
Chloride (Cl-)	mg/l	11	7.3	12.4	20.1	9.6	18.5	
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							
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	0.0016	0.0050	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	11 <	0.010	0.026	0.060	0.020	0.050	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	24	0.010	0.037	0.140	0.030	0.060	
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	Catchment: 38953 km2	2005
Distance from the mouth 500	Altitude: 87 m	BIH01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	8	5.6	13.5	22.7	13.3		
Suspended solids	mg/l	8	< 1.0	12.2	55.0	4.9		
Dissolved oxygen	mg/l	8	5.2	7.1	8.6	7.2		III
BOD (5)	mg/l	8	1.2	1.6	2.1	1.6		I
COD (Mn)	mg/l							
COD (Cr)	mg/l	8	< 5.0	12.8	30.0	10.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	8	6.9	7.4	8.0	7.4		II
Alkalinity - total	mmol/l	8	3.3	4.1	5.0	4.1		II
Ammonium (NH4-N)	mg/l	8	0.010	0.134	0.260	0.125		II
Nitrite (NO2-N)	mg/l	8	0.011	0.024	0.048	0.019		II
Nitrate (NO3-N)	mg/l	8	0.770	1.229	1.575	1.320		II
Total nitrogen	mg/l	8	1.09	2.78	4.96	2.47		III
Organic nitrogen	mg/l	8	0.18	1.39	3.59	1.23		
Orthophosphate (PO4-P)	mg/l	8	0.037	0.077	0.120	0.085		III
Total phosphorus	mg/l	8	0.100	0.214	0.740	0.139		IV
Total phosphorus, dissolved	mg/l	8	0.054	0.110	0.190	0.102		
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	298	396	493	397		
Calcium (Ca++)	mg/l	8	49.6	67.7	91.6	65.2		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	< 5.0	13.0	25.3	11.4		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.0019	0.0040	0.0010		
Iron (Fe)	mg/l	8	< 0.004	< 0.004	0.004	0.004		
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	8	< 1.00	1.13	2.00	1.00		II
Chromium (Cr) - total	µg/l	8	< 0.00	< 0.00	< 0.00	0.00		II
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	< 0.00	< 0.00	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: 94 m
 2005
 BIH02

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	8	6.1	12.0	19.6	10.9		
Suspended solids	mg/l	8	< 1.0	8.9	57.0	1.5		I
Dissolved oxygen	mg/l	8	7.7	9.2	10.5	9.1		I
BOD (5)	mg/l	8	1.0	1.2	1.5	1.1		I
COD (Mn)	mg/l							
COD (Cr)	mg/l	8	< 5.0	8.1	16.0	6.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.5	7.9	8.5	7.7		II
Alkalinity - total	mmol/l	8	3.1	4.2	4.9	4.3		II
Ammonium (NH4-N)	mg/l	8	0.010	0.074	0.280	0.025		II
Nitrite (NO2-N)	mg/l	8	0.003	0.069	0.520	0.006		I
Nitrate (NO3-N)	mg/l	8	0.020	0.585	1.120	0.615		II
Total nitrogen	mg/l	8	0.49	1.60	5.21	1.08		III
Organic nitrogen	mg/l	8	< 0.10	0.88	4.55	0.16		
Orthophosphate (PO4-P)	mg/l	8	< 0.005	0.008	0.017	0.007		I
Total phosphorus	mg/l	8	0.026	0.067	0.220	0.039		III
Total phosphorus, dissolved	mg/l	8	0.016	0.055	0.190	0.032		
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	295	399	480	417		
Calcium (Ca++)	mg/l	8	53.9	70.7	89.6	71.0		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	5.0	13.4	34.0	8.7		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.0016	0.0030	0.0010		
Iron (Fe)	mg/l	8	< 0.004	< 0.004	0.004	0.004		
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	8	< 1.00	3.75	13.00	2.00		II
Chromium (Cr) - total	µg/l	8	< 0.00	0.00	0.01	0.00		II
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	< 0.00	0.00	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: 100 m
 2005
 BIH03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	7	59.0	118.4	191.0	132.0		
Temperature	°C	8	5.9	12.2	18.9	12.5		
Suspended solids	mg/l	8	< 1.0	32.4	80.0	22.0		
Dissolved oxygen	mg/l	8	7.5	8.6	10.0	8.7		I
BOD (5)	mg/l	8	< 1.0	1.3	2.3	1.0		I
COD (Mn)	mg/l							
COD (Cr)	mg/l	8	< 5.0	7.1	20.0	5.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.3	7.7	8.3	7.6		II
Alkalinity - total	mmol/l	8	3.1	3.9	4.3	4.0		II
Ammonium (NH4-N)	mg/l	8	0.010	0.059	0.240	0.015		II
Nitrite (NO2-N)	mg/l	8	0.007	0.024	0.085	0.012		III
Nitrate (NO3-N)	mg/l	8	0.460	0.628	0.910	0.595		I
Total nitrogen	mg/l	8	0.72	1.50	3.69	1.20		II
Organic nitrogen	mg/l	8	0.16	0.79	3.09	0.35		
Orthophosphate (PO4-P)	mg/l	8	0.018	0.032	0.079	0.025		II
Total phosphorus	mg/l	8	0.056	0.082	0.122	0.085		II
Total phosphorus, dissolved	mg/l	8	0.038	0.059	0.090	0.052		
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	145	366	462	403		
Calcium (Ca++)	mg/l	8	59.6	70.5	86.4	70.6		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	< 5.0	9.2	13.4	8.0		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.0025	0.0040	0.0025		
Iron (Fe)	mg/l	8	< 0.004	< 0.004	0.004	0.004		
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	8	< 1.00	1.13	2.00	1.00		II
Chromium (Cr) - total	µg/l	8	< 0.00	0.00	0.00	0.00		II
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	< 0.00	0.00	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: 99 m
 2005
 BIH04

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	7	100.0	152.4	296.0	108.0		
Temperature	°C	8	4.0	13.3	26.3	12.7		
Suspended solids	mg/l	8	< 1.0	28.5	90.5	15.5		
Dissolved oxygen	mg/l	8	7.0	8.6	12.5	7.9		II
BOD (5)	mg/l	8	1.0	3.0	4.7	3.3		II
COD (Mn)	mg/l							
COD (Cr)	mg/l	8	6.0	18.0	42.0	16.0		III
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.0	7.6	8.0	7.7		II
Alkalinity - total	mmol/l	8	2.7	3.6	4.0	3.8		II
Ammonium (NH4-N)	mg/l	8	< 0.010	0.094	0.270	0.055		II
Nitrite (NO2-N)	mg/l	8	0.013	0.034	0.060	0.035		II
Nitrate (NO3-N)	mg/l	8	0.800	1.231	1.690	1.165		II
Total nitrogen	mg/l	8	1.33	2.50	4.05	2.26		III
Organic nitrogen	mg/l	8	< 0.10	1.14	2.71	0.87		
Orthophosphate (PO4-P)	mg/l	8	0.045	0.074	0.096	0.078		II
Total phosphorus	mg/l	8	0.114	0.136	0.176	0.128		II
Total phosphorus, dissolved	mg/l	8	0.076	0.108	0.170	0.101		
Chlorophyll A	µg/l							
Conductivity	µS/cm	8	335	535	817	575		
Calcium (Ca++)	mg/l	8	49.8	75.3	97.0	72.2		
Sulphate (SO4--)	mg/l							
Magnesium (Mg++)	mg/l	8	5.5	11.0	24.7	9.2		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	8	0.0010	0.0029	0.0060	0.0010		
Iron (Fe)	mg/l	8	< 0.004	< 0.004	0.004	0.004		
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	8	< 1.00	< 1.00	< 1.00	1.00		II
Chromium (Cr) - total	µg/l	8	< 0.00	0.00	0.01	0.00		II
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	< 0.00	< 0.00	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	2005
Distance from the mouth 1427	Altitude: 83 m	RS01
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	21	1340.0	2307.6	3760.0	2110.0	3350.0	
Temperature	°C	21	0.3	11.7	22.6	12.4	20.4	
Suspended solids	mg/l	21	6.0	32.0	61.0	35.0	54.0	
Dissolved oxygen	mg/l	21	8.0	11.2	14.0	11.8	9.0	I
BOD (5)	mg/l	21	1.0	2.9	4.5	3.0	4.2	II
COD (Mn)	mg/l	21	3.5	4.7	5.8	4.8	5.3	II
COD (Cr)	mg/l	12	12.0	14.9	19.0	14.5	18.0	II
TOC	mg/l	12	3.3	4.8	8.1	4.4	6.2	
DOC	mg/l							
pH	-	21	8.0	8.2	8.6	8.1	8.5	III
							8.0	II
Alkalinity - total	mmol/l	21	2.8	3.4	4.3	3.5	4.0	
Ammonium (NH4-N)	mg/l	21	0.020	0.125	0.260	0.130	0.220	II
Nitrite (NO2-N)	mg/l	21	0.006	0.021	0.060	0.016	0.034	II
Nitrate (NO3-N)	mg/l	21	0.950	2.039	3.300	1.980	3.200	III
Total nitrogen	mg/l	12	1.64	2.66	3.99	2.32	3.77	II
Organic nitrogen	mg/l	12	0.26	0.48	0.85	0.49	0.61	
Orthophosphate (PO4-P)	mg/l	21 <	0.005	0.035	0.071	0.032	0.068	II
Total phosphorus	mg/l	21	0.095	0.134	0.184	0.130	0.166	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.0	25.7	75.0	15.0	70.3	III
Conductivity	µS/cm	21	301	400	502	390	478	
Calcium (Ca++)	mg/l	21	42.0	59.1	68.9	60.2	66.9	
Sulphate (SO4--)	mg/l	21	26.0	40.9	55.0	40.0	51.0	
Magnesium (Mg++)	mg/l	21	9.2	15.4	25.8	15.2	18.4	
Potassium (K+)	mg/l	21	1.4	2.5	4.0	2.5	3.2	
Sodium (Na+)	mg/l	21	9.8	16.5	23.4	17.0	22.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	21	13.0	23.2	36.0	21.1	30.8	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	19	1.00	8.26	30.00	5.60	16.40	III
Chromium (Cr), total dissolved	µg/l	19 <	1.00	1.21	4.00	1.00	1.20	II
Lead (Pb), dissolved	µg/l	19 <	1.00	1.32	3.00	1.00	2.20	III
Cadmium (Cd), dissolved	µg/l	19 <	0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	15 <	0.100	0.313	1.800	0.100	0.980	III
Nickel (Ni), dissolved	µg/l	19 <	1.00	2.75	17.00	1.00	5.60	III
Arsenic (As), dissolved	µg/l	18 <	1.00	1.46	2.20	1.60	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	21	0.0010	0.0019	0.0050	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	21 <	0.010	0.023	0.050	0.022	0.030	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12	0.005	0.024	0.050	0.025	0.050	
PAHs (Borneff 6)	µg/l	2 <	0.100	< 0.100	: 0.100			
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	2005
Distance from the mouth 1367	Altitude: 80 m	RS02
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	9	1500.0	2547.8	3920.0	2470.0		
Temperature	°C	9	2.2	11.3	22.8	12.2		
Suspended solids	mg/l	9	8.0	34.4	62.0	34.0		
Dissolved oxygen	mg/l	9	10.0	11.3	14.7	10.9		I
BOD (5)	mg/l	8	2.0	3.0	4.4	2.8		II
COD (Mn)	mg/l	9	3.1	5.0	6.2	5.2		II
COD (Cr)	mg/l	1	16.0	16.0	16.0			II
TOC	mg/l							
DOC	mg/l							
pH	-	9	8.0	8.3	8.7	8.3		III
Alkalinity - total	mmol/l	9	3.0	3.6	4.1	3.6		II
Ammonium (NH4-N)	mg/l	9	0.120	0.237	0.390	0.200		III
Nitrite (NO2-N)	mg/l	9	0.006	0.020	0.033	0.020		II
Nitrate (NO3-N)	mg/l	9	0.900	1.958	2.890	2.030		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	9	0.009	0.038	0.069	0.037		II
Total phosphorus	mg/l	9	0.098	0.129	0.166	0.130		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	9	298	403	495	421		
Calcium (Ca++)	mg/l	9	54.3	61.4	71.1	59.9		
Sulphate (SO4--)	mg/l	9	30.0	41.7	50.0	43.0		
Magnesium (Mg++)	mg/l	9	10.2	15.8	20.8	16.1		
Potassium (K+)	mg/l	9	1.6	2.3	3.0	2.3		
Sodium (Na+)	mg/l	9	10.5	16.6	22.4	18.8		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	9	16.8	24.3	33.8	23.6		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	6	6.00	12.00	20.00	9.50		III
Chromium (Cr), total dissolved	µg/l	7 <	1.00	2.57	6.00	1.00		III
Lead (Pb), dissolved	µg/l	6 <	1.00	1.00	1.00	1.00		II
Cadmium (Cd), dissolved	µg/l	5 <	0.20	< 0.20	< 0.20	0.20		**
Mercury (Hg), dissolved	µg/l	4 <	0.100	0.325	0.700	0.250		III
Nickel (Ni), dissolved	µg/l	6	2.00	4.33	7.00	4.50		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	9	0.0010	0.0020	0.0050	0.0010		
Anionic active surfactants (PAL-A)	mg/l	9 <	0.010	0.027	0.040	0.024		
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: 254085 km2	2005
Distance from the mouth 1258	Altitude: 75 m	RS03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	24	1530.0	2970.8	6150.0	2615.0	4183.0	
Temperature	°C	24	0.8	11.9	22.4	12.4	21.1	
Suspended solids	mg/l	24	< 1.0	28.4	81.0	25.5	50.5	
Dissolved oxygen	mg/l	24	6.7	10.0	13.2	10.0	7.2	I
BOD (5)	mg/l	21	1.1	2.4	4.5	2.3	3.3	II
COD (Mn)	mg/l	24	3.2	4.5	5.3	4.6	5.3	II
COD (Cr)	mg/l	4	11.0	13.3	16.0	13.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	24	7.9	8.1	8.3	8.0	8.3	II
							7.9	II
Alkalinity - total	mmol/l	24	2.7	3.3	4.1	3.4	3.8	
Ammonium (NH4-N)	mg/l	24	0.090	0.246	0.530	0.230	0.334	III
Nitrite (NO2-N)	mg/l	24	0.015	0.023	0.044	0.020	0.032	II
Nitrate (NO3-N)	mg/l	24	0.900	1.903	3.500	1.795	2.914	II
Total nitrogen	mg/l	1	1.54	1.54	1.54			II
Organic nitrogen	mg/l	1	0.47	0.47	0.47			
Orthophosphate (PO4-P)	mg/l	24	0.030	0.052	0.086	0.051	0.072	II
Total phosphorus	mg/l	24	0.087	0.131	0.206	0.128	0.166	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	2.4	20.7	37.9	19.8	30.8	II
Conductivity	µS/cm	24	285	382	487	378	465	
Calcium (Ca++)	mg/l	24	46.3	58.9	69.3	60.0	67.5	
Sulphate (SO4--)	mg/l	24	31.0	39.9	54.0	38.5	48.7	
Magnesium (Mg++)	mg/l	24	7.8	13.9	20.3	14.4	17.8	
Potassium (K+)	mg/l	24	1.3	2.2	3.1	2.1	2.7	
Sodium (Na+)	mg/l	24	11.6	16.6	24.4	14.6	22.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	13.7	22.0	33.1	19.7	31.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	16	< 1.00	12.19	31.00	12.00	21.00	III
Chromium (Cr), total dissolved	µg/l	16	< 1.00	1.69	9.00	1.00	2.00	II
Lead (Pb), dissolved	µg/l	16	< 1.00	1.19	4.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	16	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	10	< 0.100	0.240	0.400	0.250		III
Nickel (Ni), dissolved	µg/l	16	< 1.00	3.31	14.00	2.00	7.50	III
Arsenic (As), dissolved	µg/l	16	< 1.00	1.31	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	21	0.0010	0.0020	0.0100	0.0010	0.0030	
Anionic active surfactants (PAL-A)	mg/l	23	< 0.010	0.023	0.055	0.013	0.047	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	< 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: 412762 km2	2005
Distance from the mouth 1174	Altitude: 71 m	RS04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	23	1.2	13.4	25.8	13.4	21.9	
Suspended solids	mg/l	23	2.0	13.9	35.0	12.0	23.0	
Dissolved oxygen	mg/l	23	6.7	10.2	13.8	10.8	7.6	I
BOD (5)	mg/l	16	0.7	2.2	3.9	2.0	3.3	II
COD (Mn)	mg/l	22	2.4	3.7	5.0	3.6	4.8	I
COD (Cr)	mg/l	15	8.3	11.7	16.5	11.6	13.4	II
TOC	mg/l	8	1.5	3.0	4.0	3.2		
DOC	mg/l							
pH	-	23	7.9	8.1	8.4	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	23	2.7	3.4	3.7	3.4	3.6	
Ammonium (NH4-N)	mg/l	23 <	0.010	0.078	0.490	0.020	0.188	I
Nitrite (NO2-N)	mg/l	19 <	0.003	0.037	0.134	0.024	0.099	III
Nitrate (NO3-N)	mg/l	23	1.040	1.843	3.280	1.710	2.600	II
Total nitrogen	mg/l	19	1.43	2.44	3.50	2.10	3.39	II
Organic nitrogen	mg/l	21 <	0.10	0.49	1.70	0.37	0.95	
Orthophosphate (PO4-P)	mg/l	22	0.014	0.057	0.121	0.053	0.091	II
Total phosphorus	mg/l	23	0.063	0.108	0.190	0.096	0.146	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	321	415	546	402	480	
Calcium (Ca++)	mg/l	23	31.0	51.9	62.0	53.0	59.6	
Sulphate (SO4--)	mg/l	23	15.0	28.3	40.0	30.0	35.6	
Magnesium (Mg++)	mg/l	23	10.0	16.8	26.0	16.0	21.8	
Potassium (K+)	mg/l	14	2.0	3.0	3.9	3.0	3.4	
Sodium (Na+)	mg/l	14	10.3	15.1	22.0	14.3	18.8	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	23	8.0	17.9	29.0	17.0	25.5	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	18	1.00	5.56	14.00	4.50	10.00	III
Chromium (Cr), total dissolved	µg/l	21 <	1.00	3.95	22.00	1.00	13.00	III
Lead (Pb), dissolved	µg/l	20 <	1.00	1.10	2.00	1.00	1.10	III
Cadmium (Cd), dissolved	µg/l	21 <	0.20	0.20	0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	22 <	0.100	0.205	1.600	0.100	0.280	III
Nickel (Ni), dissolved	µg/l	21 <	1.00	2.00	8.00	1.00	3.00	III
Arsenic (As), dissolved	µg/l	21 <	1.00	1.29	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	23	0.0010	0.0011	0.0030	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	18 <	0.010	0.011	0.021	0.010	0.011	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9 <	0.005 <	0.005 :	0.005	0.005		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	4	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	4	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	4 <	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	2005
Distance from the mouth 1154	Altitude: 70 m	RS05
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	9	2.8	15.1	23.2	16.1		
Suspended solids	mg/l	9	18.0	83.1	169.0	37.0		
Dissolved oxygen	mg/l	9	6.7	8.9	12.1	9.0		II
BOD (5)	mg/l	9	1.1	2.1	3.7	2.0		II
COD (Mn)	mg/l	9	4.0	5.5	8.4	5.3		II
COD (Cr)	mg/l	4	12.0	15.5	22.0	14.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	9	7.8	8.0	8.5	7.9		III
Alkalinity - total	mmol/l	9	2.6	3.2	3.9	3.0		II
Ammonium (NH4-N)	mg/l	9	0.200	0.322	0.470	0.330		III
Nitrite (NO2-N)	mg/l	9	0.012	0.026	0.046	0.030		II
Nitrate (NO3-N)	mg/l	9	0.610	1.334	2.170	1.290		II
Total nitrogen	mg/l	1	1.42	1.42	1.42			I
Organic nitrogen	mg/l	1	0.48	0.48	0.48			
Orthophosphate (PO4-P)	mg/l	9	0.029	0.059	0.078	0.059		II
Total phosphorus	mg/l	9	0.127	0.184	0.275	0.162		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	9	313	392	493	373		
Calcium (Ca++)	mg/l	9	44.1	55.3	66.5	54.1		
Sulphate (SO4--)	mg/l	9	39.0	44.2	52.0	43.0		
Magnesium (Mg++)	mg/l	9	9.5	13.3	17.6	12.4		
Potassium (K+)	mg/l	9	2.4	3.0	3.7	3.0		
Sodium (Na+)	mg/l	9	17.2	24.5	40.7	23.4		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	9	20.0	29.2	37.9	31.3		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	5	6.00	24.20	44.00	24.00		III
Chromium (Cr), total dissolved	µg/l	5 <	1.00	3.00	9.00	2.00		III
Lead (Pb), dissolved	µg/l	5 <	1.00	1.40	3.00	1.00		III
Cadmium (Cd), dissolved	µg/l	5 <	0.20	< 0.20	< 0.20	0.20		**
Mercury (Hg), dissolved	µg/l	1	0.100	0.100	0.100			II
Nickel (Ni), dissolved	µg/l	5 <	1.00	2.80	4.00	3.00		III
Arsenic (As), dissolved	µg/l	5 <	1.00	1.80	4.00	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	8	0.0010	0.0024	0.0040	0.0020		
Anionic active surfactants (PAL-A)	mg/l	9 <	0.010	0.024	0.055	0.015		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	0.005	< 0.005	:	0.005		
PAHs (Borneff 6)	µg/l	1 <	0.100	< 0.100	:	0.100		
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: Danube	Catchment: 568648 km2	2005
Distance from the mouth 1076	Altitude: 69 m	RS06
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	1.0	12.7	23.2	12.9	21.3	
Suspended solids	mg/l	12	4.0	25.2	90.0	20.5	33.6	
Dissolved oxygen	mg/l	12	6.0	9.4	12.9	9.2	6.8	II
BOD (5)	mg/l	12	1.1	2.0	3.5	2.0	3.0	I
COD (Mn)	mg/l	12	2.8	4.3	6.7	4.2	4.7	I
COD (Cr)	mg/l	8	6.2	11.3	15.0	11.5		II
TOC	mg/l	2	3.0	3.2	3.4			
DOC	mg/l							
pH	-	12	7.7	8.0	8.2	8.0	8.1	II
							7.7	II
Alkalinity - total	mmol/l	12	2.8	3.3	4.0	3.5	3.6	
Ammonium (NH4-N)	mg/l	12	0.100	0.189	0.320	0.185	0.269	II
Nitrite (NO2-N)	mg/l	12	0.010	0.027	0.045	0.030	0.040	II
Nitrate (NO3-N)	mg/l	12	0.650	1.398	2.140	1.225	1.959	II
Total nitrogen	mg/l	2	1.46	1.68	1.90			II
Organic nitrogen	mg/l	2	0.14	0.17	0.19			
Orthophosphate (PO4-P)	mg/l	12	0.012	0.061	0.077	0.068	0.076	II
Total phosphorus	mg/l	12	0.109	0.142	0.195	0.131	0.188	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	6	2.4	12.2	35.5	4.7		II
Conductivity	µS/cm	12	310	367	426	366	415	
Calcium (Ca++)	mg/l	12	49.3	56.5	63.7	57.7	62.2	
Sulphate (SO4--)	mg/l	12	30.0	35.8	46.0	34.5	41.9	
Magnesium (Mg++)	mg/l	12	8.8	13.2	16.7	13.9	15.4	
Potassium (K+)	mg/l	12	1.5	2.1	3.5	2.1	2.4	
Sodium (Na+)	mg/l	12	12.7	17.8	23.3	17.4	22.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	16.5	22.1	28.6	20.9	27.3	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	12	2.00	9.67	24.00	6.00	21.40	III
Chromium (Cr), total dissolved	µg/l	10 <	1.00	1.80	4.00	1.50		III
Lead (Pb), dissolved	µg/l	12 <	1.00	1.58	4.00	1.00	3.00	III
Cadmium (Cd), dissolved	µg/l	12 <	0.20	0.20	0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	7 <	0.100	0.157	0.400	0.100		III
Nickel (Ni), dissolved	µg/l	12 <	1.00	4.67	30.00	2.50	5.00	III
Arsenic (As), dissolved	µg/l	11 <	1.00	1.45	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	10	0.0010	0.0015	0.0030	0.0010		
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.015	0.039	0.012	0.021	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.005	0.009	0.005	0.006	
PAHs (Borneff 6)	µg/l	1 <	0.100	0.100	0.100			
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	2005
Distance from the mouth 954	Altitude: 0 m	RS07
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	2.4	13.2	22.0	13.0	21.8	
Suspended solids	mg/l	12	1.0	20.8	111.0	8.5	65.2	
Dissolved oxygen	mg/l	12	6.7	9.9	13.6	9.7	7.6	I
BOD (5)	mg/l	9	1.1	2.3	3.4	2.7		II
COD (Mn)	mg/l	12	2.4	3.6	4.8	3.6	4.3	I
COD (Cr)	mg/l	10	8.0	11.2	16.8	10.7		II
TOC	mg/l	10	1.3	2.6	3.8	2.7		
DOC	mg/l							
pH	-	12	8.0	8.1	8.3	8.1	8.3	II
							8.0	II
Alkalinity - total	mmol/l	11	2.9	3.4	4.0	3.5	3.9	
Ammonium (NH4-N)	mg/l	12 <	0.010	0.015	0.060	0.010	0.019	I
Nitrite (NO2-N)	mg/l	12 <	0.003	0.016	0.066	0.003	0.058	II
Nitrate (NO3-N)	mg/l	12	1.200	1.388	1.730	1.355	1.634	II
Total nitrogen	mg/l	12	1.50	1.85	2.48	1.79	2.30	II
Organic nitrogen	mg/l	12 <	0.10	0.44	0.90	0.45	0.72	
Orthophosphate (PO4-P)	mg/l	12	0.011	0.060	0.158	0.052	0.075	II
Total phosphorus	mg/l	10	0.052	0.085	0.134	0.082		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	356	404	488	404	419	
Calcium (Ca++)	mg/l	12	42.0	56.5	74.0	55.6	65.4	
Sulphate (SO4--)	mg/l	12	19.0	26.3	30.0	26.5	30.0	
Magnesium (Mg++)	mg/l	12	12.0	16.6	23.2	16.0	21.6	
Potassium (K+)	mg/l	11	2.0	2.7	3.4	2.8	3.2	
Sodium (Na+)	mg/l	11	11.5	15.1	18.4	14.8	18.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	13.5	18.7	26.0	18.4	24.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	11 <	1.00	7.64	37.00	4.00	13.00	III
Chromium (Cr), total dissolved	µg/l	11 <	1.00	3.18	20.00	1.00	4.00	III
Lead (Pb), dissolved	µg/l	11 <	1.00	1.18	2.00	1.00	2.00	III
Cadmium (Cd), dissolved	µg/l	10 <	0.20	0.21	0.30	0.20		**
Mercury (Hg), dissolved	µg/l	10 <	0.100	0.100	0.100	0.100		II
Nickel (Ni), dissolved	µg/l	11 <	1.00	2.00	4.00	1.00	4.00	III
Arsenic (As), dissolved	µg/l	11 <	1.00	1.55	2.00	2.00	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	12	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	12 <	0.010	0.010	0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	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: 577085 km2	2005
Distance from the mouth 851	Altitude: 32 m	RS08
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	12	3745.0	6503.3	11628.0	6103.0	11151.7	
Temperature	°C	11	2.4	13.5	30.0	13.1	22.9	
Suspended solids	mg/l	12	1.0	16.0	64.0	12.5	31.6	
Dissolved oxygen	mg/l	12	6.1	10.1	13.9	10.2	6.7	II
BOD (5)	mg/l	7	1.5	3.1	5.5	3.0		III
COD (Mn)	mg/l	11	2.6	4.3	7.1	3.7	6.4	II
COD (Cr)	mg/l	9	4.6	11.1	15.0	11.9		II
TOC	mg/l	10	2.0	2.9	3.6	2.8		
DOC	mg/l							
pH	-	12	7.3	7.9	8.3	8.0	8.2	II
							7.5	II
Alkalinity - total	mmol/l	9	2.9	3.4	4.0	3.3		
Ammonium (NH4-N)	mg/l	11 <	0.010	0.019	0.070	0.010	0.030	I
Nitrite (NO2-N)	mg/l	12 <	0.003	0.014	0.051	0.004	0.042	II
Nitrate (NO3-N)	mg/l	11	1.230	1.415	1.670	1.330	1.670	II
Total nitrogen	mg/l	10	1.43	1.75	2.10	1.70		II
Organic nitrogen	mg/l	12	0.14	0.28	0.46	0.31	0.41	
Orthophosphate (PO4-P)	mg/l	12	0.015	0.053	0.081	0.052	0.077	II
Total phosphorus	mg/l	11	0.056	0.106	0.177	0.110	0.153	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	0.3	0.4	0.6			I
Conductivity	µS/cm	11	353	407	446	411	436	
Calcium (Ca++)	mg/l	11	43.0	55.4	71.8	55.0	66.0	
Sulphate (SO4--)	mg/l	12	16.0	24.5	33.0	24.0	27.9	
Magnesium (Mg++)	mg/l	11	11.0	16.5	24.0	16.0	24.0	
Potassium (K+)	mg/l	11	2.0	4.7	24.0	3.0	3.2	
Sodium (Na+)	mg/l	11	11.5	15.2	18.4	14.5	18.0	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	14.1	17.2	24.0	16.0	21.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	10 <	1.00	7.20	39.00	3.00		III
Chromium (Cr), total dissolved	µg/l	10 <	1.00	2.40	7.00	1.50		III
Lead (Pb), dissolved	µg/l	10 <	1.00	1.70	4.00	1.00		III
Cadmium (Cd), dissolved	µg/l	10 <	0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	10 <	0.100	0.100	0.100	0.100		II
Nickel (Ni), dissolved	µg/l	10	1.00	2.70	6.00	2.00		III
Arsenic (As), dissolved	µg/l	10 <	1.00	1.30	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	1	7.00	7.00	7.00			III
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	12 <	0.010	< 0.010	: 0.010	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	< 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	0.0020	0.0020	0.0020	0.0020	II
Atrazine	µg/l	12 <	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: 253737 km2	2005
Distance from the mouth 1287	Altitude: 0 m	RS09
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	10	2.3	12.5	22.6	13.3		
Suspended solids	mg/l	10	13.0	31.2	43.0	32.5		
Dissolved oxygen	mg/l	10	6.6	11.0	14.9	11.1		II
BOD (5)	mg/l	8	2.8	4.5	7.9	4.2		III
COD (Mn)	mg/l	10	3.5	5.3	8.0	5.2		II
COD (Cr)	mg/l	2	14.0	20.0	26.0			II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.9	8.2	8.7	8.2		III
Alkalinity - total	mmol/l	10	2.9	3.5	4.2	3.6		II
Ammonium (NH4-N)	mg/l	10	0.090	0.217	0.360	0.215		III
Nitrite (NO2-N)	mg/l	10	0.012	0.021	0.032	0.021		II
Nitrate (NO3-N)	mg/l	10	0.660	1.756	2.770	1.760		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	10	0.016	0.052	0.104	0.046		III
Total phosphorus	mg/l	10	0.103	0.146	0.218	0.138		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	10	303	390	493	387		
Calcium (Ca++)	mg/l	10	50.7	60.5	68.9	60.9		
Sulphate (SO4--)	mg/l	10	32.0	38.7	54.0	36.5		
Magnesium (Mg++)	mg/l	10	11.3	15.0	19.6	14.7		
Potassium (K+)	mg/l	10	1.6	2.3	2.9	2.4		
Sodium (Na+)	mg/l	10	10.7	16.8	21.7	16.6		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	10	17.2	22.7	30.7	20.4		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	7	4.00	27.14	82.00	15.00		III
Chromium (Cr), total dissolved	µg/l	7 <	1.00	7.14	42.00	1.00		III
Lead (Pb), dissolved	µg/l	7 <	1.00	1.14	2.00	1.00		III
Cadmium (Cd), dissolved	µg/l	7 <	0.20	< 0.20	< 0.20	0.20		**
Mercury (Hg), dissolved	µg/l	3 <	0.100	0.267	0.600			II
Nickel (Ni), dissolved	µg/l	7	1.00	4.14	11.00	3.00		III
Arsenic (As), dissolved	µg/l	7 <	1.00	1.43	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	9	0.0010	0.0018	0.0050	0.0010		
Anionic active surfactants (PAL-A)	mg/l	10 <	0.010	0.027	0.048	0.025		
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: /Tisa	Catchment: 140130 km2	2005
Distance from the mouth 152	Altitude: 76 m	RS10
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	24	397.0	1083.0	2560.0	820.0	2251.0	
Temperature	°C	24	0.3	12.4	26.0	13.0	22.0	
Suspended solids	mg/l	24	3.0	63.3	199.0	40.0	174.9	
Dissolved oxygen	mg/l	24	5.3	9.4	12.6	8.9	6.5	II
BOD (5)	mg/l	23	0.7	1.7	2.8	1.6	2.7	I
COD (Mn)	mg/l	24	3.1	5.5	9.9	5.2	7.8	II
COD (Cr)	mg/l	14	11.0	15.5	25.0	14.3	21.3	II
TOC	mg/l	12	4.3	6.2	9.2	5.2	8.8	
DOC	mg/l							
pH	-	24	7.5	7.9	8.2	7.9	8.1	II
							7.7	II
Alkalinity - total	mmol/l	24	2.0	3.0	3.9	3.0	3.7	
Ammonium (NH4-N)	mg/l	24	0.030	0.265	0.660	0.250	0.488	III
Nitrite (NO2-N)	mg/l	24	0.010	0.022	0.055	0.020	0.038	II
Nitrate (NO3-N)	mg/l	24	0.780	1.212	1.810	1.150	1.682	II
Total nitrogen	mg/l	12	1.09	1.69	2.47	1.53	2.41	II
Organic nitrogen	mg/l	12	0.21	0.32	0.49	0.29	0.46	
Orthophosphate (PO4-P)	mg/l	24	0.020	0.066	0.128	0.070	0.101	III
Total phosphorus	mg/l	24	0.075	0.187	0.350	0.171	0.295	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.5	14.2	70.0	3.8	44.6	II
Conductivity	µS/cm	24	262	428	590	404	553	
Calcium (Ca++)	mg/l	24	37.4	55.7	74.4	57.2	69.1	
Sulphate (SO4--)	mg/l	24	33.0	51.1	69.0	51.0	63.0	
Magnesium (Mg++)	mg/l	24	6.4	11.2	15.6	11.2	13.9	
Potassium (K+)	mg/l	24	2.2	3.8	5.3	3.8	5.1	
Sodium (Na+)	mg/l	24	18.0	32.9	55.5	30.8	50.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	20.2	43.8	77.0	43.3	69.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	13	2.00	7.43	13.50	8.00	10.68	III
Chromium (Cr), total dissolved	µg/l	13	< 1.00	3.33	9.00	1.30	6.80	III
Lead (Pb), dissolved	µg/l	13	< 1.00	2.54	21.00	1.00	1.00	II
Cadmium (Cd), dissolved	µg/l	13	< 0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	14	< 0.100	0.179	0.500	0.100	0.370	III
Nickel (Ni), dissolved	µg/l	13	< 1.00	2.01	7.00	1.50	2.42	III
Arsenic (As), dissolved	µg/l	13	< 1.00	2.05	4.00	2.00	2.90	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	22	0.0010	0.0020	0.0050	0.0010	0.0040	
Anionic active surfactants (PAL-A)	mg/l	24	< 0.010	0.018	0.038	0.018	0.029	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	0.012	0.020	0.030	0.020	0.025	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	9	0.0020	0.0037	0.0170	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: /Tisa	Catchment: 145415 km2	2005
Distance from the mouth 66	Altitude: 74 m	RS11
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	10	2.2	14.2	22.6	17.1		
Suspended solids	mg/l	10	26.0	76.4	310.0	49.5		
Dissolved oxygen	mg/l	10	6.1	8.2	12.4	7.2		II
BOD (5)	mg/l	10	1.1	2.3	3.8	2.2		II
COD (Mn)	mg/l	10	4.3	5.8	11.4	5.2		III
COD (Cr)	mg/l	3	10.0	14.7	19.0			II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.8	7.9	8.0	7.9		II
Alkalinity - total	mmol/l	10	2.1	3.0	4.0	2.8		II
Ammonium (NH4-N)	mg/l	10	0.080	0.255	0.510	0.255		III
Nitrite (NO2-N)	mg/l	10	0.006	0.029	0.055	0.024		II
Nitrate (NO3-N)	mg/l	10	0.750	1.220	1.730	1.240		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	10	0.039	0.067	0.103	0.069		III
Total phosphorus	mg/l	10	0.155	0.210	0.354	0.198		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	10	286	421	574	394		
Calcium (Ca++)	mg/l	10	38.6	55.1	69.4	54.5		
Sulphate (SO4--)	mg/l	10	40.0	53.7	67.0	50.0		
Magnesium (Mg++)	mg/l	10	8.3	11.3	16.5	10.2		
Potassium (K+)	mg/l	10	2.1	3.7	5.1	3.7		
Sodium (Na+)	mg/l	10	18.1	32.7	54.5	29.7		
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	10	21.5	44.6	67.0	43.0		
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	6	6.00	18.00	27.00	21.00		III
Chromium (Cr), total dissolved	µg/l	5 <	1.00	3.80	8.00	3.00		III
Lead (Pb), dissolved	µg/l	5 <	1.00	1.00	1.00	1.00		II
Cadmium (Cd), dissolved	µg/l	6 <	0.20	< 0.20	< 0.20	0.20		**
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	6 <	1.00	4.83	13.00	4.00		III
Arsenic (As), dissolved	µg/l	6 <	1.00	1.50	4.00	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	10	0.0010	0.0021	0.0050	0.0015		
Anionic active surfactants (PAL-A)	mg/l	10 <	0.010	0.021	0.057	0.017		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2 <	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: /Tisa	Catchment: 157147 km2	2005
Distance from the mouth 9	Altitude: 73 m	RS12
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	18	2.6	14.6	24.2	15.9	23.0	
Suspended solids	mg/l	18	< 1.0	79.4	398.0	36.0	250.9	
Dissolved oxygen	mg/l	18	5.1	7.5	12.2	7.2	5.5	III
BOD (5)	mg/l	17	0.5	2.0	3.8	1.8	3.1	II
COD (Mn)	mg/l	17	3.7	5.5	11.1	5.1	6.7	II
COD (Cr)	mg/l	3	12.0	14.0	18.0			I
TOC	mg/l							
DOC	mg/l							
pH	-	18	7.6	7.8	8.0	7.8	8.0	II
							7.7	II
Alkalinity - total	mmol/l	18	2.2	3.1	3.9	3.0	3.9	
Ammonium (NH4-N)	mg/l	17	0.140	0.351	0.600	0.330	0.494	III
Nitrite (NO2-N)	mg/l	18	0.005	0.023	0.042	0.023	0.034	II
Nitrate (NO3-N)	mg/l	18	0.440	1.151	1.790	1.170	1.484	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	18	0.042	0.073	0.112	0.075	0.103	III
Total phosphorus	mg/l	18	0.077	0.152	0.300	0.150	0.187	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	18	288	432	592	402	574	
Calcium (Ca++)	mg/l	18	39.0	55.8	72.0	56.4	69.7	
Sulphate (SO4--)	mg/l	18	35.0	52.5	67.0	51.5	65.0	
Magnesium (Mg++)	mg/l	18	8.2	12.0	17.1	11.1	15.8	
Potassium (K+)	mg/l	18	2.3	3.6	5.5	3.6	4.4	
Sodium (Na+)	mg/l	18	17.6	34.0	57.9	31.9	49.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	18	19.0	43.1	71.4	40.6	66.7	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	9	12.00	26.44	52.00	23.00		III
Chromium (Cr), total dissolved	µg/l	9	< 1.00	9.22	48.00	6.00		III
Lead (Pb), dissolved	µg/l	9	< 1.00	1.22	3.00	1.00		III
Cadmium (Cd), dissolved	µg/l	9	< 0.20	< 0.20	< 0.20	0.20		**
Mercury (Hg), dissolved	µg/l	4	0.200	0.625	0.800	0.750		III
Nickel (Ni), dissolved	µg/l	9	< 1.00	4.67	13.00	3.00		III
Arsenic (As), dissolved	µg/l	9	< 1.00	1.78	4.00	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	18	0.0010	0.0018	0.0060	0.0010	0.0033	
Anionic active surfactants (PAL-A)	mg/l	17	< 0.010	0.022	0.065	0.015	0.036	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
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: /Sava	Catchment: 64073 km2	2005
Distance from the mouth 195	Altitude: 78 m	RS13
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	0.9	11.7	22.2	11.7	19.9	
Suspended solids	mg/l	22	2.0	27.0	108.0	19.0	53.2	
Dissolved oxygen	mg/l	24	6.9	9.4	13.4	9.4	7.2	I
BOD (5)	mg/l	23	0.5	1.3	3.0	1.2	2.3	I
COD (Mn)	mg/l	24	2.5	3.9	14.6	3.5	4.3	I
COD (Cr)	mg/l	11	4.9	9.5	14.4	11.3	12.1	II
TOC	mg/l	9	1.4	2.2	2.8	2.3		
DOC	mg/l							
pH	-	22	7.9	8.1	8.5	8.1	8.2	II
							7.9	II
Alkalinity - total	mmol/l	23	3.5	4.0	4.6	3.9	4.4	
Ammonium (NH4-N)	mg/l	23 <	0.010	0.013	0.050	0.010	0.018	I
Nitrite (NO2-N)	mg/l	22 <	0.003	0.003	0.003	0.003	0.003	I
Nitrate (NO3-N)	mg/l	22	0.096	1.166	1.590	1.240	1.482	II
Total nitrogen	mg/l	20	0.90	1.57	2.60	1.55	1.84	II
Organic nitrogen	mg/l	20 <	0.10	0.35	1.33	0.33	0.51	
Orthophosphate (PO4-P)	mg/l	21	0.028	0.078	0.431	0.052	0.076	II
Total phosphorus	mg/l	20	0.048	0.183	0.656	0.131	0.433	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	331	398	501	402	470	
Calcium (Ca++)	mg/l	22	44.0	65.9	82.6	66.0	79.9	
Sulphate (SO4--)	mg/l	20	15.0	20.7	33.0	21.0	23.2	
Magnesium (Mg++)	mg/l	22	9.0	14.7	21.0	14.4	19.9	
Potassium (K+)	mg/l	20	0.9	1.6	5.1	1.5	1.9	
Sodium (Na+)	mg/l	20	4.7	9.7	15.2	9.8	13.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	20	6.5	12.8	22.3	10.5	20.2	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	14 <	1.00	7.00	48.00	3.50	11.60	III
Chromium (Cr), total dissolved	µg/l	14 <	1.00	2.07	13.00	1.00	2.70	III
Lead (Pb), dissolved	µg/l	14 <	1.00	2.21	15.00	1.00	2.70	III
Cadmium (Cd), dissolved	µg/l	14 <	0.20	0.28	1.00	0.20	0.37	**
Mercury (Hg), dissolved	µg/l	20 <	0.100	0.130	0.700	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	14 <	1.00	5.00	41.00	2.00	6.50	III
Arsenic (As), dissolved	µg/l	14 <	1.00	1.64	2.00	2.00	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	21	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	12 <	0.005 <	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	0.0020	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: 87996 km2	2005
Distance from the mouth 136	Altitude: 75 m	RS14
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s	22	594.0	1761.0	4180.0	1510.0	3025.0		
Temperature	°C	22	1.9	11.8	25.5	11.2	20.3		
Suspended solids	mg/l	21	1.0	16.2	71.0	9.0	44.0		
Dissolved oxygen	mg/l	22	7.5	10.1	13.5	9.5	7.8	I	
BOD (5)	mg/l	22	< 0.2	1.3	2.5	1.4	2.2	I	
COD (Mn)	mg/l	20	1.7	2.7	4.2	2.8	3.4	I	
COD (Cr)	mg/l	11	5.0	7.6	10.0	7.4	9.5	I	
TOC	mg/l	8	1.8	2.2	2.6	2.3			
DOC	mg/l								
pH	-	22	7.8	8.0	8.4	8.0	8.1	II	
							7.9	II	
Alkalinity - total	mmol/l	22	3.3	4.0	9.4	3.7	4.2		
Ammonium (NH4-N)	mg/l	21	<	0.010	0.013	0.060	0.010	0.010	I
Nitrite (NO2-N)	mg/l	21	<	0.003	< 0.003	0.003	0.003	0.003	I
Nitrate (NO3-N)	mg/l	21	0.790	1.067	1.440	1.100	1.250	1.60	II
Total nitrogen	mg/l	21	0.91	1.36	1.77	1.35	1.60	1.60	II
Organic nitrogen	mg/l	21	<	0.10	0.28	0.54	0.26	0.46	
Orthophosphate (PO4-P)	mg/l	21	0.009	0.062	0.426	0.040	0.070	0.188	II
Total phosphorus	mg/l	19	0.031	0.120	0.630	0.084	0.188	0.188	II
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l								
Conductivity	µS/cm	22	330	398	450	400	450		
Calcium (Ca++)	mg/l	21	50.6	65.3	91.4	64.0	73.6		
Sulphate (SO4--)	mg/l	19	12.0	18.4	27.0	18.0	24.0		
Magnesium (Mg++)	mg/l	21	4.0	12.1	18.7	12.0	17.4		
Potassium (K+)	mg/l	18	0.7	1.5	3.1	1.5	2.1		
Sodium (Na+)	mg/l	18	4.8	9.3	13.6	9.4	11.3		
Manganese (Mn)	mg/l								
Iron (Fe)	mg/l								
Chloride (Cl-)	mg/l	18	4.2	10.5	20.0	9.6	15.1		
Silicates (SiO2)	mg/l								
Zinc (Zn), dissolved	µg/l								
Copper (Cu), dissolved	µg/l	16	<	1.00	2.94	16.00	1.50	5.00	III
Chromium (Cr), total dissolved	µg/l	16	<	1.00	2.50	16.00	1.00	5.00	III
Lead (Pb), dissolved	µg/l	16	<	1.00	1.25	3.00	1.00	2.00	III
Cadmium (Cd), dissolved	µg/l	16	<	0.20	< 0.20	< 0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	21	<	0.100	< 0.100	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	16	<	1.00	1.81	5.00	1.00	3.00	III
Arsenic (As), dissolved	µg/l	16	<	1.00	1.56	2.00	2.00	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	0.0010	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	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: /Sava	Catchment: 89490 km2	2005
Distance from the mouth 103	Altitude: 74 m	RS15
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.1	12.0	25.8	11.6	20.1	
Suspended solids	mg/l	21	1.0	17.9	121.0	11.0	30.0	
Dissolved oxygen	mg/l	24	5.4	9.0	12.4	8.7	6.6	II
BOD (5)	mg/l	20	0.5	1.2	3.3	1.1	1.7	I
COD (Mn)	mg/l	23	1.7	2.8	7.1	2.5	3.4	I
COD (Cr)	mg/l	12	4.2	8.2	11.7	7.5	11.5	II
TOC	mg/l	9	1.5	2.6	3.9	2.5		
DOC	mg/l							
pH	-	22	7.6	7.9	8.3	8.1	8.3	II
							7.6	II
Alkalinity - total	mmol/l	24	3.2	3.7	4.4	3.6	4.3	
Ammonium (NH4-N)	mg/l	21 <	0.010	0.010	0.020	0.010	0.010	I
Nitrite (NO2-N)	mg/l	21 <	0.003	0.003	0.003	0.003	0.003	I
Nitrate (NO3-N)	mg/l	21	0.760	1.099	1.410	1.100	1.330	II
Total nitrogen	mg/l	21	0.93	1.40	1.89	1.40	1.71	II
Organic nitrogen	mg/l	22 <	0.10	0.30	0.80	0.28	0.41	
Orthophosphate (PO4-P)	mg/l	21	0.006	0.062	0.250	0.039	0.123	III
Total phosphorus	mg/l	19	0.032	0.119	0.340	0.093	0.232	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	23	344	412	514	408	470	
Calcium (Ca++)	mg/l	21	46.1	61.2	78.4	61.0	73.0	
Sulphate (SO4--)	mg/l	21	12.0	18.9	28.0	19.0	24.0	
Magnesium (Mg++)	mg/l	21	8.6	12.7	24.9	12.0	16.0	
Potassium (K+)	mg/l	19	0.8	1.4	3.2	1.4	1.5	
Sodium (Na+)	mg/l	19	4.6	8.5	13.8	8.0	11.6	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	19	5.3	10.3	19.2	9.2	15.1	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	16 <	1.00	5.13	16.00	3.00	12.50	III
Chromium (Cr), total dissolved	µg/l	16 <	1.00	1.13	2.00	1.00	1.50	II
Lead (Pb), dissolved	µg/l	16 <	1.00	1.50	5.00	1.00	2.50	III
Cadmium (Cd), dissolved	µg/l	16 <	0.20	0.25	1.00	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	22 <	0.100 <	0.100 :	0.100	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	16 <	1.00	2.19	10.00	1.00	4.00	III
Arsenic (As), dissolved	µg/l	16 <	1.00	1.63	3.00	2.00	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	0.0010	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	12 <	0.005 <	0.005 :	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: /Sava	Catchment: 37320 km2	2005
Distance from the mouth 17	Altitude: 0 m	RS16
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	24	2.2	13.2	26.2	13.6	21.9	
Suspended solids	mg/l	22	2.0	19.9	73.0	15.0	41.0	
Dissolved oxygen	mg/l	24	7.0	9.9	12.0	10.5	7.3	I
BOD (5)	mg/l	21	1.0	2.4	3.9	2.4	3.4	II
COD (Mn)	mg/l	24	2.1	3.5	5.4	3.7	4.2	I
COD (Cr)	mg/l	13	5.5	9.2	16.8	8.7	11.1	II
TOC	mg/l	9	2.1	2.6	3.7	2.5		
DOC	mg/l							
pH	-	24	7.8	8.1	8.5	8.0	8.3	II
							7.9	II
Alkalinity - total	mmol/l	24	3.1	3.4	3.8	3.4	3.6	
Ammonium (NH4-N)	mg/l	24 <	0.010	0.066	0.420	0.010	0.242	II
Nitrite (NO2-N)	mg/l	24 <	0.003	0.019	0.068	0.017	0.045	II
Nitrate (NO3-N)	mg/l	24	0.200	1.091	2.550	1.080	1.508	II
Total nitrogen	mg/l	23	0.50	1.43	3.00	1.38	1.96	II
Organic nitrogen	mg/l	23 <	0.10	0.27	1.00	0.22	0.47	
Orthophosphate (PO4-P)	mg/l	23 <	0.005	0.063	0.154	0.059	0.115	III
Total phosphorus	mg/l	23	0.051	0.119	0.234	0.108	0.180	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	310	387	462	387	435	
Calcium (Ca++)	mg/l	24	41.0	56.7	71.0	56.5	67.8	
Sulphate (SO4--)	mg/l	24	7.0	19.0	27.0	18.5	25.0	
Magnesium (Mg++)	mg/l	24	9.0	14.0	19.0	14.0	17.4	
Potassium (K+)	mg/l	16	0.5	1.3	2.1	1.4	1.8	
Sodium (Na+)	mg/l	16	4.0	8.0	11.0	8.3	10.3	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	24	4.3	9.4	19.0	8.1	13.0	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	20 <	1.00	11.15	53.00	4.50	32.90	III
Chromium (Cr), total dissolved	µg/l	21 <	1.00	1.86	10.00	1.00	3.00	III
Lead (Pb), dissolved	µg/l	20 <	1.00	1.30	4.00	1.00	2.00	III
Cadmium (Cd), dissolved	µg/l	21 <	0.20	0.23	0.80	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	19 <	0.100	0.105	0.200	0.100	0.100	II
Nickel (Ni), dissolved	µg/l	21 <	1.00	3.81	21.00	2.00	8.00	III
Arsenic (As), dissolved	µg/l	21 <	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	24	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	19 <	0.010	0.010	0.015	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9 <	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: /Velika Morava

Catchment: 37320 km2

2005

Distance from the mouth 35

Altitude: 75 m

RS17

Location: Right

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	24	109.0	344.3	834.0	279.0	666.0	
Temperature	°C	24	0.8	11.8	26.0	10.8	20.3	
Suspended solids	mg/l	24	2.0	20.5	146.0	8.5	43.5	
Dissolved oxygen	mg/l	24	8.5	11.1	14.1	11.0	9.5	I
BOD (5)	mg/l	20	0.5	2.7	4.0	2.9	3.6	II
COD (Mn)	mg/l	24	2.8	5.0	10.9	4.7	6.7	II
COD (Cr)	mg/l	7	7.0	10.5	14.1	10.9		II
TOC	mg/l	10	1.5	2.5	3.8	2.8		
DOC	mg/l							
pH	-	20	7.5	7.9	8.6	7.8	8.3	II
							7.7	II
Alkalinity - total	mmol/l	24	2.9	3.6	4.5	3.6	4.0	
Ammonium (NH4-N)	mg/l	24 <	0.010	0.012	0.030	0.010	0.017	I
Nitrite (NO2-N)	mg/l	24 <	0.003	0.003	0.004	0.003	0.003	I
Nitrate (NO3-N)	mg/l	24	1.190	1.878	2.580	1.975	2.369	II
Total nitrogen	mg/l	24	1.45	2.38	3.60	2.30	3.29	II
Organic nitrogen	mg/l	24 <	0.10	0.49	1.53	0.42	0.85	
Orthophosphate (PO4-P)	mg/l	23	0.009	0.112	0.251	0.099	0.196	III
Total phosphorus	mg/l	17	0.082	0.165	0.337	0.113	0.305	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	24	355	421	497	419	479	
Calcium (Ca++)	mg/l	24	49.0	59.0	74.0	58.0	68.7	
Sulphate (SO4--)	mg/l	18	15.0	29.4	49.0	30.0	35.6	
Magnesium (Mg++)	mg/l	24	7.0	15.6	20.8	16.0	18.0	
Potassium (K+)	mg/l	15	2.0	3.5	8.2	3.0	4.6	
Sodium (Na+)	mg/l	15	9.0	12.5	14.9	12.8	14.7	
Manganese (Mn)	mg/l							
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	18	5.5	9.9	15.2	10.0	13.9	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l	15	2.00	4.67	12.00	4.00	7.20	III
Chromium (Cr), total dissolved	µg/l	15 <	1.00	2.13	12.00	1.00	4.60	III
Lead (Pb), dissolved	µg/l	14 <	1.00	1.86	6.00	1.00	4.80	III
Cadmium (Cd), dissolved	µg/l	15 <	0.20	0.20	0.20	0.20	0.20	**
Mercury (Hg), dissolved	µg/l	19 <	0.100	0.258	1.200	0.200	0.400	III
Nickel (Ni), dissolved	µg/l	15 <	1.00	6.13	60.00	2.00	3.60	III
Arsenic (As), dissolved	µg/l	15 <	1.00	2.00	3.00	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	24	0.0010	0.0010	0.0010	0.0010	0.0010	
Anionic active surfactants (PAL-A)	mg/l	17 <	0.010	0.010	0.011	0.010	0.010	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.005	0.005	0.005	0.005	0.005	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	5	0.0020	0.0020	0.0020	0.0020		I
pp-DDT	µg/l	5	0.0020	0.0020	0.0020	0.0020		II
Atrazine	µg/l	5 <	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	2005
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	2820.0	6347.8	12859.0	5650.0	10704.4	
Temperature	°C	20	0.5	11.4	26.0	9.5	21.1	
Suspended solids	mg/l	20	18.0	29.2	56.0	28.5	34.2	
Dissolved oxygen	mg/l	20	5.3	9.3	13.8	9.2	6.6	II
BOD (5)	mg/l	20	0.8	2.0	3.7	2.0	2.9	I
COD (Mn)	mg/l	20	2.1	3.5	12.0	3.0	4.2	I
COD (Cr)	mg/l	20	6.7	9.6	22.6	8.8	10.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.3	7.6	8.5	7.6	7.8	II
							7.3	II
Alkalinity - total	mmol/l	19	1.9	3.1	4.0	3.0	3.6	
Ammonium (NH4-N)	mg/l	20	0.060	0.519	3.986	0.318	0.614	IV
Nitrite (NO2-N)	mg/l	20	0.009	0.036	0.225	0.026	0.041	II
Nitrate (NO3-N)	mg/l	20	0.655	1.213	1.898	1.062	1.850	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	20	0.030	0.132	0.820	0.092	0.168	III
Total phosphorus	mg/l	20	0.045	0.214	1.060	0.165	0.329	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	2.8	12.4	21.0	13.3	20.6	I
Conductivity	µS/cm	20	222	416	548	425	484	
Calcium (Ca++)	mg/l	20	36.9	51.6	68.2	51.2	61.7	
Sulphate (SO4--)	mg/l	20	29.3	45.2	72.1	43.5	61.6	
Magnesium (Mg++)	mg/l	20	4.9	14.3	26.2	15.0	17.8	
Potassium (K+)	mg/l	20	1.0	2.6	3.0	3.0	3.0	
Sodium (Na+)	mg/l	20	7.0	18.5	27.0	17.5	23.0	
Manganese (Mn)	mg/l	19	0.0220	0.1404	0.6450	0.0920	0.2178	
Iron (Fe)	mg/l	19	0.250	0.938	4.785	0.502	1.875	
Chloride (Cl-)	mg/l	20	5.4	20.2	33.6	19.6	27.1	
Silicates (SiO2)	mg/l	19	2.15	7.75	12.51	7.44	11.37	
Zinc (Zn), dissolved	µg/l	17	10.00	22.65	64.00	14.00	42.60	III
Copper (Cu), dissolved	µg/l	17	1.23	3.82	9.67	3.30	6.40	III
Chromium (Cr), total dissolved	µg/l	17	0.19	0.89	2.48	0.77	1.75	II
Lead (Pb), dissolved	µg/l	17	0.05	0.82	1.92	0.79	1.67	III
Cadmium (Cd), dissolved	µg/l	17	<	0.05	0.78	5.28	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	17	0.34	1.67	5.41	1.16	4.04	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	19	10.00	42.11	88.00	41.00	81.00	II
Copper (Cu)	µg/l	19	2.57	8.85	19.52	8.52	13.23	II
Chromium (Cr) - total	µg/l	19	0.75	2.56	7.54	1.92	4.25	II
Lead (Pb)	µg/l	19	0.17	5.17	21.64	2.59	10.59	IV
Cadmium (Cd)	µg/l	19	0.05	9.75	148.30	0.33	11.33	V
Mercury (Hg)	µg/l	18	0.025	0.071	0.463	0.025	0.164	III
Nickel (Ni)	µg/l	19	1.30	4.80	22.02	3.58	7.69	II
Arsenic (As)	µg/l							
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	0.046	0.072	0.045	0.067	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	<	0.010	1.678	7.058	0.010	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	18	0.0050	0.0075	0.0170	0.0050	0.0115	I
pp-DDT	µg/l	18	0.0100	0.0257	0.0610	0.0180	0.0512	V
Atrazine	µg/l	17	0.060	0.076	0.144	0.060	0.123	III
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	17	0.140	3.770	7.900	3.300	7.900	
Faecal coliforms (44 C)	1000CFU/100m	17	0.080	0.422	1.400	0.270	0.780	
Faecal streptococci	1000CFU/100m	17	0.005	0.048	0.220	0.033	0.099	
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	2005
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	2820.0	6347.8	12859.0	5650.0	10704.4	
Temperature	°C	16	1.5	12.3	26.0	12.0	21.5	
Suspended solids	mg/l	16	14.0	25.3	36.0	27.0	30.0	
Dissolved oxygen	mg/l	16	5.2	9.2	14.1	9.0	6.4	II
BOD (5)	mg/l	16	1.0	1.8	3.5	1.8	2.4	I
COD (Mn)	mg/l	16	1.6	2.6	3.9	2.5	3.3	I
COD (Cr)	mg/l	16	5.8	7.9	9.8	7.9	9.5	I
TOC	mg/l							
DOC	mg/l							
pH	-	16	7.3	7.5	7.9	7.6	7.8	II
							7.3	II
Alkalinity - total	mmol/l	15	2.6	3.1	3.8	3.0	3.5	
Ammonium (NH4-N)	mg/l	16	0.170	0.339	0.722	0.330	0.477	III
Nitrite (NO2-N)	mg/l	16	0.008	0.024	0.042	0.024	0.041	II
Nitrate (NO3-N)	mg/l	16	0.768	1.314	2.486	1.164	2.135	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	16	0.005	0.088	0.192	0.088	0.135	III
Total phosphorus	mg/l	16	0.010	0.140	0.228	0.150	0.190	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	3.6	13.2	21.2	15.4	21.0	I
Conductivity	µS/cm	16	349	418	535	416	475	
Calcium (Ca++)	mg/l	16	41.2	51.0	65.1	48.7	60.9	
Sulphate (SO4--)	mg/l	16	20.5	43.5	79.5	42.0	56.5	
Magnesium (Mg++)	mg/l	16	9.7	14.8	26.2	14.0	18.4	
Potassium (K+)	mg/l	16	1.0	2.4	3.0	3.0	3.0	
Sodium (Na+)	mg/l	16	14.0	18.4	25.0	18.0	22.0	
Manganese (Mn)	mg/l	16	0.0200	0.1412	0.3980	0.1330	0.2540	
Iron (Fe)	mg/l	16	0.132	0.894	3.507	0.677	1.719	
Chloride (Cl-)	mg/l	16	14.3	21.7	35.6	20.3	29.2	
Silicates (SiO2)	mg/l	14	2.27	6.80	14.53	6.10	10.93	
Zinc (Zn), dissolved	µg/l	16	10.00	20.88	44.00	16.00	36.00	III
Copper (Cu), dissolved	µg/l	16	2.13	4.18	9.09	2.94	7.44	III
Chromium (Cr), total dissolved	µg/l	16	0.12	0.90	2.28	0.80	1.62	II
Lead (Pb), dissolved	µg/l	16	0.05	0.84	1.72	0.86	1.59	III
Cadmium (Cd), dissolved	µg/l	16	<	0.05	0.23	1.17	0.08	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	16	0.05	1.45	3.85	1.27	2.30	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	16	14.00	48.88	111.00	39.50	91.00	II
Copper (Cu)	µg/l	16	2.95	9.70	16.53	9.88	15.18	II
Chromium (Cr) - total	µg/l	16	0.93	3.12	12.25	2.58	4.04	II
Lead (Pb)	µg/l	16	0.05	5.25	20.33	4.07	11.08	IV
Cadmium (Cd)	µg/l	16	0.13	2.43	20.66	0.86	4.15	IV
Mercury (Hg)	µg/l	16	0.025	0.041	0.094	0.033	0.064	II
Nickel (Ni)	µg/l	16	1.06	5.48	12.26	4.98	10.93	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	16	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	16	0.025	0.042	0.064	0.042	0.061	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	<	0.010	2.360	9.411	0.010	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	17	0.0050	0.0086	0.0210	0.0070	0.0144	I
pp-DDT	µg/l	17	0.0100	0.0323	0.1900	0.0210	0.0502	V
Atrazine	µg/l	17	0.060	0.085	0.196	0.060	0.166	III
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	15	0.170	3.873	7.900	4.600	7.540	
Faecal coliforms (44 C)	1000CFU/100m	15	0.090	0.435	1.100	0.270	0.820	
Faecal streptococci	1000CFU/100m	15	0.005	0.040	0.140	0.023	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	2005
Distance from the mouth 1071	Altitude: 70 m	RO01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2820.0	6347.8	12859.0	5650.0	10704.4	
Temperature	°C	16	2.0	12.4	26.0	12.0	21.5	
Suspended solids	mg/l	16	13.0	25.5	31.0	25.5	30.0	
Dissolved oxygen	mg/l	16	5.1	9.0	13.6	9.0	6.2	II
BOD (5)	mg/l	16	0.9	2.0	2.9	2.0	2.7	I
COD (Mn)	mg/l	16	2.0	3.0	4.4	3.2	3.6	I
COD (Cr)	mg/l	16	6.3	9.0	11.3	9.0	10.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	16	7.3	7.6	7.9	7.6	7.7	II
							7.3	II
Alkalinity - total	mmol/l	15	2.7	3.1	4.0	3.0	3.5	
Ammonium (NH4-N)	mg/l	16	0.132	0.286	0.753	0.229	0.443	III
Nitrite (NO2-N)	mg/l	16	0.008	0.025	0.050	0.021	0.042	II
Nitrate (NO3-N)	mg/l	16	0.723	1.179	1.898	1.051	1.548	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	16	0.010	0.091	0.195	0.095	0.150	III
Total phosphorus	mg/l	16	0.061	0.154	0.244	0.150	0.210	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	3.7	12.5	20.4	12.3	19.5	I
Conductivity	µS/cm	16	350	434	786	400	497	
Calcium (Ca++)	mg/l	16	36.7	50.0	73.0	48.9	60.1	
Sulphate (SO4--)	mg/l	16	19.0	40.7	96.1	37.6	55.5	
Magnesium (Mg++)	mg/l	16	10.7	14.9	24.0	14.5	19.4	
Potassium (K+)	mg/l	16	1.0	2.3	3.0	3.0	3.0	
Sodium (Na+)	mg/l	16	13.0	18.5	25.0	17.5	22.0	
Manganese (Mn)	mg/l	16	0.0200	0.1286	0.3970	0.0835	0.2680	
Iron (Fe)	mg/l	16	0.147	0.865	4.160	0.577	1.499	
Chloride (Cl-)	mg/l	16	14.8	20.4	29.2	19.6	26.3	
Silicates (SiO2)	mg/l	14	2.24	6.57	11.34	6.59	9.95	
Zinc (Zn), dissolved	µg/l	14	10.00	21.21	54.00	15.00	42.90	III
Copper (Cu), dissolved	µg/l	14	1.16	4.31	13.80	3.26	7.60	III
Chromium (Cr), total dissolved	µg/l	14	0.29	0.89	1.86	0.71	1.58	II
Lead (Pb), dissolved	µg/l	14	0.05	0.73	2.38	0.64	1.83	III
Cadmium (Cd), dissolved	µg/l	14	<	0.05	1.49	0.21	5.00	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	14	0.05	1.73	5.73	1.17	3.65	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	16	10.00	52.13	125.00	42.50	90.00	II
Copper (Cu)	µg/l	16	2.30	8.68	17.15	8.36	14.40	II
Chromium (Cr) - total	µg/l	16	0.83	3.40	16.11	2.41	5.54	II
Lead (Pb)	µg/l	16	0.28	4.70	22.83	2.95	8.46	III
Cadmium (Cd)	µg/l	16	0.05	4.05	29.24	1.21	9.32	V
Mercury (Hg)	µg/l	16	0.025	0.040	0.113	0.025	0.083	II
Nickel (Ni)	µg/l	16	1.48	5.07	13.49	3.75	10.14	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	15	0.0050	0.0050	0.0050	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	16	0.025	0.048	0.070	0.052	0.064	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	6	<	0.010	0.987	3.529	0.010	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	16	0.0050	0.0105	0.0250	0.0070	0.0230	I
pp-DDT	µg/l	16	0.0100	0.0184	0.0400	0.0170	0.0310	IV
Atrazine	µg/l	16	0.060	0.078	0.164	0.060	0.130	III
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	15	0.110	4.802	10.900	4.600	7.900	
Faecal coliforms (44 C)	1000CFU/100m	15	0.130	0.533	1.300	0.340	0.856	
Faecal streptococci	1000CFU/100m	15	0.003	0.047	0.110	0.033	0.101	
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	2005
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	2743.0	6396.4	12838.0	5614.0	10992.0	
Temperature	°C	23	0.5	12.1	24.0	11.9	21.0	
Suspended solids	mg/l	23	14.0	25.6	44.0	25.0	30.0	
Dissolved oxygen	mg/l	23	5.2	9.5	13.4	9.5	7.0	II
BOD (5)	mg/l	23	0.8	1.9	3.3	1.9	2.8	I
COD (Mn)	mg/l	23	1.5	2.7	3.8	2.7	3.4	I
COD (Cr)	mg/l	23	6.8	8.9	11.8	8.8	9.8	I
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.2	7.6	8.0	7.6	7.9	II
							7.3	II
Alkalinity - total	mmol/l	23	2.7	3.2	4.4	3.1	3.7	
Ammonium (NH4-N)	mg/l	23	0.020	0.233	0.800	0.186	0.438	III
Nitrite (NO2-N)	mg/l	23	0.008	0.024	0.072	0.023	0.033	II
Nitrate (NO3-N)	mg/l	23	0.519	1.131	2.101	1.157	1.644	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.030	0.127	0.500	0.084	0.270	IV
Total phosphorus	mg/l	23	0.060	0.229	1.280	0.160	0.348	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	9	2.4	14.0	25.3	18.9		II
Conductivity	µS/cm	23	357	421	526	425	487	
Calcium (Ca++)	mg/l	23	34.9	50.6	79.4	51.3	58.1	
Sulphate (SO4--)	mg/l	23	12.0	33.3	59.5	30.0	49.8	
Magnesium (Mg++)	mg/l	23	10.7	14.9	22.3	14.6	20.9	
Potassium (K+)	mg/l	23	1.0	2.3	3.0	3.0	3.0	
Sodium (Na+)	mg/l	23	12.0	16.1	27.0	15.0	19.8	
Manganese (Mn)	mg/l	24	0.0200	0.0777	0.2460	0.0535	0.1671	
Iron (Fe)	mg/l	24	0.060	0.592	3.485	0.266	1.769	
Chloride (Cl-)	mg/l	23	12.4	19.5	27.3	18.7	27.2	
Silicates (SiO2)	mg/l	24	4.68	7.66	11.90	6.97	10.78	
Zinc (Zn), dissolved	µg/l	2	10.00	14.50	19.00			III
Copper (Cu), dissolved	µg/l	2	3.04	4.60	6.16			III
Chromium (Cr), total dissolved	µg/l	2	0.86	0.87	0.89			II
Lead (Pb), dissolved	µg/l	2	1.44	1.72	2.00			III
Cadmium (Cd), dissolved	µg/l	2	0.35	0.82	1.29			III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	2	0.90	1.25	1.60			III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	24	10.00	33.04	95.00	28.50	62.30	II
Copper (Cu)	µg/l	24	0.37	6.89	19.48	6.33	10.69	II
Chromium (Cr) - total	µg/l	24	0.27	2.79	9.69	1.79	5.90	II
Lead (Pb)	µg/l	24	0.05	4.55	26.54	2.92	10.86	IV
Cadmium (Cd)	µg/l	24	0.05	4.56	44.47	0.81	16.17	V
Mercury (Hg)	µg/l	22	0.025	0.048	0.258	0.030	0.058	II
Nickel (Ni)	µg/l	24	0.72	3.75	13.76	2.33	7.96	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	23	0.0050	0.0077	0.0680	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	23	0.025	0.066	0.190	0.055	0.100	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9 <	0.010	1.573	7.640	0.010		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	22	0.0050	0.0085	0.0180	0.0080	0.0137	I
pp-DDT	µg/l	22	0.0100	0.0240	0.1000	0.0185	0.0329	IV
Atrazine	µg/l	21	0.060	0.074	0.297	0.060	0.077	II
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	16	0.270	3.010	7.000	2.500	4.900	
Faecal coliforms (44 C)	1000CFU/100m	16	0.070	0.319	0.790	0.300	0.445	
Faecal streptococci	1000CFU/100m	16	0.008	0.039	0.130	0.030	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: 580100 km2	2005
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	2743.0	6396.4	12838.0	5614.0	10992.0	
Temperature	°C	21	2.0	13.0	24.5	13.0	21.0	
Suspended solids	mg/l	21	12.0	24.0	39.0	23.0	30.0	
Dissolved oxygen	mg/l	21	5.5	9.3	13.7	9.3	6.8	II
BOD (5)	mg/l	21	0.7	1.8	3.1	1.7	2.7	I
COD (Mn)	mg/l	21	1.4	2.4	3.3	2.4	3.1	I
COD (Cr)	mg/l	21	5.8	8.2	16.7	7.8	9.0	I
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.1	7.6	8.1	7.6	7.9	II
							7.4	II
Alkalinity - total	mmol/l	21	2.6	3.2	4.2	3.0	3.6	
Ammonium (NH4-N)	mg/l	21	0.020	0.221	0.644	0.155	0.450	III
Nitrite (NO2-N)	mg/l	21	0.008	0.026	0.075	0.025	0.039	II
Nitrate (NO3-N)	mg/l	21	0.542	1.156	2.101	1.107	1.627	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	21	0.040	0.108	0.270	0.090	0.190	III
Total phosphorus	mg/l	21	0.090	0.259	1.930	0.163	0.330	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	10	3.1	12.7	21.2	12.7		I
Conductivity	µS/cm	21	357	413	515	418	481	
Calcium (Ca++)	mg/l	21	39.7	49.2	65.1	49.2	54.0	
Sulphate (SO4--)	mg/l	21	9.0	34.4	103.5	30.5	44.5	
Magnesium (Mg++)	mg/l	21	10.7	15.4	30.0	13.6	21.3	
Potassium (K+)	mg/l	21	1.0	2.3	3.0	2.0	3.0	
Sodium (Na+)	mg/l	21	12.0	15.8	26.0	15.0	19.0	
Manganese (Mn)	mg/l	22	0.0220	0.1022	0.3770	0.0780	0.2257	
Iron (Fe)	mg/l	22	0.099	0.887	4.350	0.358	2.985	
Chloride (Cl-)	mg/l	21	13.7	18.6	28.3	17.6	22.4	
Silicates (SiO2)	mg/l	21	4.70	7.16	14.16	6.68	10.44	
Zinc (Zn), dissolved	µg/l	22	10.00	18.55	60.00	10.00	36.70	III
Copper (Cu), dissolved	µg/l	22	1.21	3.29	7.41	3.08	4.86	III
Chromium (Cr), total dissolved	µg/l	21	0.20	0.99	3.82	0.86	1.68	II
Lead (Pb), dissolved	µg/l	22	0.05	0.82	4.26	0.62	1.83	III
Cadmium (Cd), dissolved	µg/l	22	<	0.05	0.42	4.50	0.16	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	22	0.20	1.53	4.42	1.26	2.85	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	22	10.00	40.36	93.00	36.00	70.20	II
Copper (Cu)	µg/l	22	2.64	6.76	12.25	7.18	10.02	II
Chromium (Cr) - total	µg/l	22	0.51	3.58	13.79	2.01	7.34	II
Lead (Pb)	µg/l	22	0.05	4.21	21.38	2.84	7.59	III
Cadmium (Cd)	µg/l	22	0.05	6.87	123.20	0.88	3.57	IV
Mercury (Hg)	µg/l	20	0.025	0.088	1.000	0.027	0.076	II
Nickel (Ni)	µg/l	22	1.46	5.05	13.13	4.03	10.49	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	21	0.0050	0.0074	0.0550	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	21	0.025	0.056	0.160	0.044	0.100	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	<	0.010	0.905	1.764		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	23	0.0050	0.0141	0.1130	0.0080	0.0194	I
pp-DDT	µg/l	23	0.0100	0.0237	0.0810	0.0170	0.0348	IV
Atrazine	µg/l	22	0.060	0.068	0.126	0.060	0.084	II
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	16	0.790	2.174	4.900	2.200	3.300	
Faecal coliforms (44 C)	1000CFU/100m	16	0.110	0.206	0.330	0.220	0.250	
Faecal streptococci	1000CFU/100m	16	0.005	0.031	0.110	0.023	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: 580100 km2	2005
Distance from the mouth 834	Altitude: 31 m	RO02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	2743.0	6396.4	12838.0	5614.0	10992.0	
Temperature	°C	20	2.0	13.2	24.0	14.2	21.2	
Suspended solids	mg/l	20	15.0	24.8	37.0	24.5	30.2	
Dissolved oxygen	mg/l	20	5.3	9.0	13.2	8.9	6.4	II
BOD (5)	mg/l	20	0.5	1.8	3.1	1.6	2.7	I
COD (Mn)	mg/l	20	1.7	2.8	4.2	2.8	3.6	I
COD (Cr)	mg/l	20	7.3	8.8	10.2	8.7	9.7	I
TOC	mg/l							
DOC	mg/l							
pH	-	20	7.2	7.7	8.1	7.7	7.9	II
							7.4	II
Alkalinity - total	mmol/l	20	2.8	3.2	4.3	3.1	3.6	
Ammonium (NH4-N)	mg/l	20	0.020	0.185	0.512	0.159	0.455	III
Nitrite (NO2-N)	mg/l	20	0.008	0.024	0.075	0.023	0.036	II
Nitrate (NO3-N)	mg/l	20	0.542	1.099	1.853	1.175	1.381	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	20	0.020	0.119	0.510	0.110	0.192	III
Total phosphorus	mg/l	20	0.050	0.240	1.400	0.180	0.302	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	10	3.4	13.2	20.9	13.6		I
Conductivity	µS/cm	20	357	416	523	421	486	
Calcium (Ca++)	mg/l	20	33.3	49.9	71.4	48.6	55.4	
Sulphate (SO4--)	mg/l	20	5.5	32.8	61.5	34.5	46.6	
Magnesium (Mg++)	mg/l	20	8.7	15.1	22.3	14.6	20.5	
Potassium (K+)	mg/l	20	1.0	2.3	3.0	2.0	3.0	
Sodium (Na+)	mg/l	20	11.0	16.4	27.0	15.0	20.1	
Manganese (Mn)	mg/l	21	0.0200	0.0670	0.2240	0.0480	0.1060	
Iron (Fe)	mg/l	21	0.060	0.532	2.411	0.242	1.640	
Chloride (Cl-)	mg/l	20	13.3	19.1	28.8	17.9	24.6	
Silicates (SiO2)	mg/l	20	4.67	7.25	13.24	6.74	11.89	
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	21	10.00	29.86	70.00	24.00	59.00	II
Copper (Cu)	µg/l	21	3.88	6.92	14.98	6.16	10.79	II
Chromium (Cr) - total	µg/l	21	0.81	3.13	9.86	2.19	8.69	II
Lead (Pb)	µg/l	21	0.30	2.82	11.24	2.47	4.45	II
Cadmium (Cd)	µg/l	21	0.09	1.24	4.32	0.84	2.90	IV
Mercury (Hg)	µg/l	19	0.025	0.050	0.143	0.033	0.099	II
Nickel (Ni)	µg/l	21	1.31	4.11	13.65	2.71	7.89	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	20	0.0050	0.0063	0.0300	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	20	0.025	0.059	0.180	0.051	0.082	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	7 <	0.010	4.877	24.705	1.170		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	21	0.0050	0.0080	0.0200	0.0080	0.0120	I
pp-DDT	µg/l	21	0.0100	0.0214	0.0690	0.0190	0.0330	IV
Atrazine	µg/l	21	0.060	0.079	0.355	0.060	0.109	III
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	15	0.700	2.760	7.000	2.400	4.540	
Faecal coliforms (44 C)	1000CFU/100m	15	0.140	0.343	0.700	0.230	0.700	
Faecal streptococci	1000CFU/100m	15	0.007	0.036	0.140	0.023	0.074	
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	2005
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	3510.0	7361.9	13320.0	6640.0	11921.0	
Temperature	°C	12	2.8	12.9	27.0	11.4	26.0	
Suspended solids	mg/l	12	42.0	93.0	214.0	86.0	136.1	
Dissolved oxygen	mg/l	12	8.0	10.3	12.6	10.7	8.2	I
BOD (5)	mg/l	12	2.8	3.8	5.8	3.9	4.4	II
COD (Mn)	mg/l	12	4.0	5.4	7.9	5.3	6.2	II
COD (Cr)	mg/l	12	9.9	11.9	16.4	11.5	13.8	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	7.7	7.9	7.7	7.9	II
							7.6	II
Alkalinity - total	mmol/l	12	2.7	3.2	3.9	3.1	3.8	
Ammonium (NH4-N)	mg/l	12	0.155	0.207	0.264	0.209	0.259	II
Nitrite (NO2-N)	mg/l	12	0.015	0.021	0.027	0.021	0.027	II
Nitrate (NO3-N)	mg/l	12	0.890	1.276	1.590	1.293	1.545	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.040	0.064	0.130	0.055	0.080	II
Total phosphorus	mg/l	12	0.080	0.124	0.250	0.105	0.170	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	391	439	510	430	490	
Calcium (Ca++)	mg/l	12	61.6	69.3	81.6	66.8	80.8	
Sulphate (SO4--)	mg/l	12	75.4	84.6	95.5	83.1	93.0	
Magnesium (Mg++)	mg/l	12	13.4	17.1	21.8	17.0	19.5	
Potassium (K+)	mg/l	12	1.9	2.4	3.0	2.4	2.9	
Sodium (Na+)	mg/l	12	14.9	18.5	21.8	18.7	21.4	
Manganese (Mn)	mg/l	11	0.0410	0.0915	0.1650	0.0900	0.1500	
Iron (Fe)	mg/l	11	0.227	0.781	1.551	0.641	1.514	
Chloride (Cl-)	mg/l	12	23.1	30.3	35.5	31.1	35.2	
Silicates (SiO2)	mg/l	11	5.07	7.92	10.57	8.06	10.23	
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	10.00	29.91	67.00	29.00	59.00	II
Copper (Cu)	µg/l	11	1.72	9.57	29.33	7.14	18.54	II
Chromium (Cr) - total	µg/l	11	1.29	4.73	19.59	2.99	6.18	II
Lead (Pb)	µg/l	11	1.03	3.29	9.27	2.39	4.95	II
Cadmium (Cd)	µg/l	11	0.05	0.24	1.14	0.10	0.42	II
Mercury (Hg)	µg/l	1	0.025	0.025	0.025			II
Nickel (Ni)	µg/l	11	2.19	4.43	7.49	3.68	6.96	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0050	0.0079	0.0400	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.026	0.041	0.090	0.035	0.068	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0111	0.0370	0.0080	0.0192	I
pp-DDT	µg/l	12	0.0100	0.0213	0.0400	0.0205	0.0316	IV
Atrazine	µg/l	12	0.060	0.087	0.255	0.060	0.174	III
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	2	1.600	5.400	9.200			
Faecal coliforms (44 C)	1000CFU/100m	2	0.026	0.563	1.100			
Faecal streptococci	1000CFU/100m	2	0.013	0.027	0.040			
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 432
 Location: Middle

Catchment: 676150 km2
 Altitude: 16 m
 2005
 RO03

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3510.0	7361.9	13320.0	6640.0	11921.0	
Temperature	°C	12	2.5	12.9	27.0	11.3	25.5	
Suspended solids	mg/l	12	31.0	81.8	184.0	79.0	120.2	
Dissolved oxygen	mg/l	12	7.7	10.3	12.3	10.7	8.1	I
BOD (5)	mg/l	12	2.4	3.4	5.4	3.4	3.8	II
COD (Mn)	mg/l	12	3.5	4.8	7.0	4.8	5.4	II
COD (Cr)	mg/l	12	8.5	10.7	15.2	10.4	11.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	7.7	7.8	7.7	7.8	II
							7.5	II
Alkalinity - total	mmol/l	12	2.5	3.0	3.6	2.9	3.6	
Ammonium (NH4-N)	mg/l	12	0.108	0.158	0.202	0.160	0.190	I
Nitrite (NO2-N)	mg/l	12	0.011	0.016	0.030	0.015	0.021	II
Nitrate (NO3-N)	mg/l	12	0.750	1.088	1.300	1.090	1.268	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.030	0.049	0.100	0.045	0.060	II
Total phosphorus	mg/l	12	0.050	0.102	0.230	0.090	0.139	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	361	413	497	404	466	
Calcium (Ca++)	mg/l	12	59.2	66.1	78.4	64.8	75.0	
Sulphate (SO4--)	mg/l	12	66.7	80.6	89.7	80.4	88.2	
Magnesium (Mg++)	mg/l	12	10.9	15.3	19.5	15.2	19.2	
Potassium (K+)	mg/l	12	1.7	2.2	2.7	2.0	2.7	
Sodium (Na+)	mg/l	12	12.0	15.8	20.7	15.3	18.3	
Manganese (Mn)	mg/l	10	0.0200	0.1341	0.2790	0.1305		
Iron (Fe)	mg/l	10	0.084	1.072	3.002	0.989		
Chloride (Cl-)	mg/l	12	19.5	26.0	33.7	24.9	30.1	
Silicates (SiO2)	mg/l	11	5.07	8.19	10.82	7.23	10.80	
Zinc (Zn), dissolved	µg/l	10	10.00	13.20	23.00	10.00		III
Copper (Cu), dissolved	µg/l	10	2.23	3.82	6.04	3.29		III
Chromium (Cr), total dissolved	µg/l	10	0.20	0.69	1.60	0.64		II
Lead (Pb), dissolved	µg/l	10	0.05	0.45	1.32	0.28		III
Cadmium (Cd), dissolved	µg/l	10	< 0.05	0.14	0.84	0.05		III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	10	0.42	1.57	3.65	1.33		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	10	10.00	36.90	82.00	31.50		II
Copper (Cu)	µg/l	10	4.63	16.37	53.47	13.47		IV
Chromium (Cr) - total	µg/l	10	1.13	3.54	7.99	2.77		II
Lead (Pb)	µg/l	10	0.37	3.99	9.09	3.31		III
Cadmium (Cd)	µg/l	10	0.05	0.22	0.77	0.10		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10	2.16	5.55	9.69	4.57		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0050	0.0088	0.0500	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.025	0.037	0.120	0.027	0.048	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0087	0.0140	0.0090	0.0110	I
pp-DDT	µg/l	11	0.0100	0.0283	0.1010	0.0230	0.0380	IV
Atrazine	µg/l	12	0.060	0.079	0.234	0.060	0.090	II
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	2	0.920	3.160	5.400			
Faecal coliforms (44 C)	1000CFU/100m	2	0.039	0.185	0.330			
Faecal streptococci	1000CFU/100m	2	0.013	0.027	0.040			
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	2005
Distance from the mouth 432	Altitude: 16 m	RO03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3510.0	7361.9	13320.0	6640.0	11921.0	
Temperature	°C	12	2.7	12.9	27.0	11.3	25.9	
Suspended solids	mg/l	12	36.0	88.3	207.0	86.0	129.8	
Dissolved oxygen	mg/l	12	7.9	10.3	12.6	10.4	8.2	I
BOD (5)	mg/l	12	2.2	3.7	6.1	3.6	4.2	II
COD (Mn)	mg/l	12	3.9	5.3	8.2	5.3	6.0	II
COD (Cr)	mg/l	12	9.1	11.9	19.1	11.4	13.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.4	7.7	7.8	7.8	7.8	II
							7.7	II
Alkalinity - total	mmol/l	12	2.7	3.2	3.9	3.1	3.7	
Ammonium (NH4-N)	mg/l	12	0.131	0.195	0.240	0.210	0.239	II
Nitrite (NO2-N)	mg/l	12	0.014	0.021	0.030	0.021	0.024	II
Nitrate (NO3-N)	mg/l	12	1.020	1.301	1.500	1.331	1.446	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.050	0.067	0.090	0.065	0.088	II
Total phosphorus	mg/l	12	0.100	0.131	0.210	0.120	0.185	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	388	434	521	419	504	
Calcium (Ca++)	mg/l	12	62.4	69.1	80.0	67.6	76.8	
Sulphate (SO4--)	mg/l	12	76.3	86.8	102.7	84.7	97.3	
Magnesium (Mg++)	mg/l	12	14.6	17.9	24.0	17.0	21.7	
Potassium (K+)	mg/l	12	1.8	2.3	3.1	2.2	2.9	
Sodium (Na+)	mg/l	12	13.1	16.9	21.9	17.3	19.3	
Manganese (Mn)	mg/l	11	0.0200	0.0829	0.1410	0.0690	0.1400	
Iron (Fe)	mg/l	11	0.068	0.693	1.704	0.554	1.474	
Chloride (Cl-)	mg/l	12	21.3	27.6	35.5	28.4	32.0	
Silicates (SiO2)	mg/l	11	5.03	7.89	11.66	7.40	10.01	
Zinc (Zn), dissolved	µg/l	1	10.00	10.00	10.00			II
Copper (Cu), dissolved	µg/l	1	4.16	4.16	4.16			II
Chromium (Cr), total dissolved	µg/l	1	0.60	0.60	0.60			II
Lead (Pb), dissolved	µg/l	1	1.15	1.15	1.15			II
Cadmium (Cd), dissolved	µg/l	1	< 0.05	< 0.05	< 0.05			II
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	1	1.80	1.80	1.80			II
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	10.00	28.27	69.00	28.00	43.00	II
Copper (Cu)	µg/l	11	3.93	14.57	43.93	10.44	30.40	III
Chromium (Cr) - total	µg/l	11	0.83	3.35	9.17	3.01	5.85	II
Lead (Pb)	µg/l	11	1.70	4.04	10.99	3.93	5.74	III
Cadmium (Cd)	µg/l	11	0.05	0.17	0.47	0.13	0.31	II
Mercury (Hg)	µg/l	1	0.025	0.025	0.025			II
Nickel (Ni)	µg/l	11	1.56	4.24	9.71	3.34	8.33	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0050	0.0088	0.0500	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	12	0.026	0.039	0.100	0.033	0.043	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l	11	0.0050	0.0079	0.0120	0.0080	0.0100	I
pp-DDT	µg/l	11	0.0100	0.0206	0.0410	0.0150	0.0400	IV
Atrazine	µg/l	12	0.060	0.081	0.228	0.060	0.130	III
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	2	0.540	4.870	9.200			
Faecal coliforms (44 C)	1000CFU/100m	2	0.026	0.248	0.470			
Faecal streptococci	1000CFU/100m	2	0.008	0.024	0.040			
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 km ²	2005
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m ³ /s	365	3700.0	7659.4	13650.0	6960.0	12254.0	
Temperature	°C	22	1.0	13.4	28.0	12.5	23.0	
Suspended solids	mg/l	22	8.0	92.5	862.0	42.0	158.4	
Dissolved oxygen	mg/l	23	5.1	8.2	12.0	8.2	5.5	III
BOD (5)	mg/l	21	1.0	2.6	4.6	2.7	3.7	II
COD (Mn)	mg/l	13	2.2	4.8	11.9	4.5	5.5	II
COD (Cr)	mg/l	16	18.3	27.5	41.3	27.5	36.0	III
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.5	8.0	8.5	8.0	8.3	II
							7.7	II
Alkalinity - total	mmol/l	13	2.4	2.9	3.8	2.8	3.4	
Ammonium (NH ₄ -N)	mg/l	23	0.106	0.474	1.460	0.429	0.834	IV
Nitrite (NO ₂ -N)	mg/l	23	0.005	0.030	0.089	0.025	0.053	II
Nitrate (NO ₃ -N)	mg/l	23	0.696	1.845	3.250	2.022	2.868	II
Total nitrogen	mg/l	22	1.09	2.81	4.26	2.76	3.82	II
Organic nitrogen	mg/l							
Orthophosphate (PO ₄ -P)	mg/l	23	0.005	0.035	0.085	0.033	0.067	II
Total phosphorus	mg/l	21	0.010	0.152	0.503	0.126	0.277	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	2.3	5.7	12.2			I
Conductivity	µS/cm	23	346	420	534	422	479	
Calcium (Ca ⁺⁺)	mg/l	12	38.9	53.7	72.1	53.3	66.1	
Sulphate (SO ₄ ⁻⁻)	mg/l	14	19.1	31.7	40.0	32.5	38.0	
Magnesium (Mg ⁺⁺)	mg/l	12	14.5	24.8	36.4	23.2	33.9	
Potassium (K ⁺)	mg/l	10	1.2	1.6	2.2	1.6		
Sodium (Na ⁺)	mg/l	10	15.2	18.8	24.5	18.3		
Manganese (Mn)	mg/l	24	0.0200	0.0945	0.2280	0.0930	0.1670	
Iron (Fe)	mg/l	24	0.062	0.748	3.000	0.390	1.658	
Chloride (Cl ⁻)	mg/l	18	21.7	30.8	41.4	28.1	36.5	
Silicates (SiO ₂)	mg/l	21	4.99	8.63	14.09	9.05	10.80	
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	24	10.00	40.38	146.00	39.00	59.70	II
Copper (Cu)	µg/l	24	0.87	12.42	40.49	9.73	22.41	III
Chromium (Cr) - total	µg/l	24	0.83	4.83	39.54	2.27	8.20	II
Lead (Pb)	µg/l	24	0.69	3.94	11.17	3.09	8.35	III
Cadmium (Cd)	µg/l	24	0.05	0.39	4.25	0.10	0.83	II
Mercury (Hg)	µg/l	22	0.025	0.046	0.138	0.030	0.076	II
Nickel (Ni)	µg/l	24	0.53	5.37	17.73	3.05	12.23	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0160	0.1153	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.117	0.263	0.103	0.201	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9 <	0.010	2.000	9.441	0.294		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	20	0.0050	0.0141	0.0990	0.0055	0.0210	I
pp-DDT	µg/l	20	0.0100	0.0199	0.0850	0.0115	0.0351	IV
Atrazine	µg/l	21	0.060	0.064	0.127	0.060	0.063	II
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	0.000	4.959	22.000	2.300		
Faecal coliforms (44 C)	1000CFU/100m	10	0.000	2.424	11.000	0.490		
Faecal streptococci	1000CFU/100m	10	0.000	0.116	0.540	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: 698600 km2	2005
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	3700.0	7659.4	13650.0	6960.0	12254.0	
Temperature	°C	22	1.0	13.3	28.0	12.5	23.0	
Suspended solids	mg/l	22	2.0	80.1	814.0	46.0	93.5	
Dissolved oxygen	mg/l	23	5.3	8.4	12.0	8.2	5.4	III
BOD (5)	mg/l	21	0.9	2.6	4.4	2.6	3.8	II
COD (Mn)	mg/l	13	2.4	4.1	6.0	4.5	5.1	II
COD (Cr)	mg/l	16	15.2	27.8	39.8	28.2	36.3	III
TOC	mg/l							
DOC	mg/l							
pH	-	23	7.6	8.0	8.8	8.1	8.3	II
							7.7	II
Alkalinity - total	mmol/l	13	2.4	2.9	3.8	2.8	3.4	
Ammonium (NH4-N)	mg/l	23	0.132	0.482	1.490	0.438	0.800	IV
Nitrite (NO2-N)	mg/l	23	0.005	0.026	0.054	0.028	0.038	II
Nitrate (NO3-N)	mg/l	23	0.699	1.864	3.560	1.960	2.932	II
Total nitrogen	mg/l	22	1.29	2.84	4.75	2.87	3.79	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	23	0.005	0.038	0.095	0.038	0.066	II
Total phosphorus	mg/l	22	0.011	0.128	0.521	0.099	0.215	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	3.4	4.8	5.6			I
Conductivity	µS/cm	23	340	404	483	409	471	
Calcium (Ca++)	mg/l	12	40.0	52.7	68.1	51.3	66.1	
Sulphate (SO4--)	mg/l	14	15.0	31.1	45.7	30.9	39.6	
Magnesium (Mg++)	mg/l	12	14.5	23.4	31.6	23.2	31.6	
Potassium (K+)	mg/l	10	1.1	1.6	2.4	1.4		
Sodium (Na+)	mg/l	10	14.8	18.7	24.8	18.2		
Manganese (Mn)	mg/l	24	0.0200	0.1257	0.6200	0.0860	0.2545	
Iron (Fe)	mg/l	24	0.060	1.130	5.361	0.365	2.919	
Chloride (Cl-)	mg/l	18	21.3	29.6	35.2	27.6	34.7	
Silicates (SiO2)	mg/l	21	4.88	8.56	12.59	8.90	11.14	
Zinc (Zn), dissolved	µg/l	23	10.00	16.22	39.00	10.00	31.20	III
Copper (Cu), dissolved	µg/l	23	0.61	4.58	13.85	4.21	7.74	III
Chromium (Cr), total dissolved	µg/l	23	0.05	0.76	3.34	0.52	1.51	II
Lead (Pb), dissolved	µg/l	23	0.05	1.03	3.50	0.89	2.41	III
Cadmium (Cd), dissolved	µg/l	23	<	0.05	0.08	0.29	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	22	0.05	1.46	4.92	1.09	3.10	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	24	10.00	41.79	105.00	34.50	91.90	II
Copper (Cu)	µg/l	24	2.81	12.05	70.00	8.69	20.71	III
Chromium (Cr) - total	µg/l	24	0.79	3.73	18.59	2.31	6.19	II
Lead (Pb)	µg/l	24	0.89	4.59	27.19	3.13	7.22	III
Cadmium (Cd)	µg/l	24	0.05	0.62	4.25	0.25	1.18	III
Mercury (Hg)	µg/l	21	0.025	0.030	0.056	0.025	0.046	II
Nickel (Ni)	µg/l	24	0.22	6.05	28.81	3.21	13.43	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0162	0.1169	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.117	0.273	0.114	0.156	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	3	<	0.010	5.493	14.117		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gamma-HCH)	µg/l	21	0.0050	0.0089	0.0300	0.0050	0.0180	I
pp-DDT	µg/l	21	0.0100	0.0175	0.0550	0.0100	0.0270	IV
Atrazine	µg/l	21	0.060	0.070	0.212	0.060	0.080	II
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	0.017	2.648	11.000	0.545		
Faecal coliforms (44 C)	1000CFU/100m	10	0.004	1.828	11.000	0.280		
Faecal streptococci	1000CFU/100m	10	0.005	0.035	0.130	0.023		
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	2005
Distance from the mouth 375	Altitude: 13 m	RO04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	3700.0	7659.4	13650.0	6960.0	12254.0	
Temperature	°C	21	1.0	13.7	28.0	14.0	23.0	
Suspended solids	mg/l	22	3.0	87.2	898.0	50.0	116.3	
Dissolved oxygen	mg/l	22	5.3	8.3	12.0	8.3	5.7	III
BOD (5)	mg/l	20	1.0	2.7	4.0	2.9	3.8	II
COD (Mn)	mg/l	12	2.2	4.4	8.3	4.5	5.2	II
COD (Cr)	mg/l	15	18.5	28.3	38.7	28.5	36.6	III
TOC	mg/l							
DOC	mg/l							
pH	-	22	7.6	8.0	8.4	8.1	8.3	II
							7.8	II
Alkalinity - total	mmol/l	12	2.4	2.9	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	22	0.139	0.426	1.380	0.391	0.647	IV
Nitrite (NO2-N)	mg/l	22	0.005	0.022	0.054	0.019	0.033	II
Nitrate (NO3-N)	mg/l	22	0.809	1.893	3.590	1.840	3.112	III
Total nitrogen	mg/l	22	1.33	2.93	4.92	2.77	4.10	III
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.045	0.280	0.037	0.070	II
Total phosphorus	mg/l	20	0.010	0.146	0.573	0.102	0.242	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	2.7	6.7	12.4			I
Conductivity	µS/cm	22	343	403	487	393	476	
Calcium (Ca++)	mg/l	12	38.9	53.4	68.1	56.1	66.1	
Sulphate (SO4--)	mg/l	13	18.1	28.6	37.1	29.2	34.9	
Magnesium (Mg++)	mg/l	12	14.5	27.9	84.0	23.2	32.7	
Potassium (K+)	mg/l	9	1.0	1.5	2.2	1.4		
Sodium (Na+)	mg/l	9	10.2	18.3	24.0	18.2		
Manganese (Mn)	mg/l	23	0.0200	0.0865	0.2760	0.0780	0.1178	
Iron (Fe)	mg/l	23	0.060	0.676	3.301	0.316	1.690	
Chloride (Cl-)	mg/l	17	20.7	28.5	35.2	27.6	34.4	
Silicates (SiO2)	mg/l	21	4.69	8.45	12.52	8.64	10.93	
Zinc (Zn), dissolved	µg/l	1	10.00	10.00	10.00			II
Copper (Cu), dissolved	µg/l	1	4.69	4.69	4.69			II
Chromium (Cr), total dissolved	µg/l	1	1.21	1.21	1.21			II
Lead (Pb), dissolved	µg/l	1	0.92	0.92	0.92			II
Cadmium (Cd), dissolved	µg/l	1	< 0.05	< 0.05	< 0.05			II
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	1	0.98	0.98	0.98			II
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	34.30	107.00	18.00	74.20	II
Copper (Cu)	µg/l	23	3.13	12.01	63.84	6.90	19.49	II
Chromium (Cr) - total	µg/l	23	0.11	4.04	52.45	1.53	3.89	II
Lead (Pb)	µg/l	23	0.05	3.46	22.28	1.98	6.65	III
Cadmium (Cd)	µg/l	23	0.05	0.58	5.21	0.12	1.73	III
Mercury (Hg)	µg/l	21	0.025	0.031	0.063	0.025	0.048	II
Nickel (Ni)	µg/l	23	0.16	5.79	37.42	2.71	11.65	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0161	0.1161	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.110	0.242	0.119	0.132	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	< 0.010	2.806	9.411	2.350		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	21	0.0050	0.0084	0.0320	0.0060	0.0170	I
pp-DDT	µg/l	21	0.0100	0.0168	0.0650	0.0110	0.0280	IV
Atrazine	µg/l	21	0.060	0.067	0.121	0.060	0.097	II
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	9	0.000	3.842	16.000	1.100		
Faecal coliforms (44 C)	1000CFU/100m	9	0.000	2.062	13.000	0.210		
Faecal streptococci	1000CFU/100m	9	0.000	0.043	0.240	0.022		
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	2005
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	4310.0	8710.7	14040.0	8020.0	13360.0	
Temperature	°C	20	1.5	13.7	26.5	15.0	23.6	
Suspended solids	mg/l	20	5.0	68.0	229.0	44.5	133.9	
Dissolved oxygen	mg/l	22	7.0	9.5	12.3	8.9	7.5	I
BOD (5)	mg/l	22	1.0	1.8	2.9	1.7	2.6	I
COD (Mn)	mg/l	12	2.4	3.9	5.2	4.0	4.4	I
COD (Cr)	mg/l	18	14.8	27.4	45.0	27.3	34.2	III
TOC	mg/l							
DOC	mg/l							
pH	-	21	6.8	7.9	8.4	7.9	8.3	II
							7.6	II
Alkalinity - total	mmol/l	12	2.5	2.9	3.5	2.9	3.4	
Ammonium (NH4-N)	mg/l	21	0.061	0.223	0.499	0.198	0.404	III
Nitrite (NO2-N)	mg/l	22	0.005	0.035	0.112	0.030	0.071	III
Nitrate (NO3-N)	mg/l	22	0.506	1.665	3.590	1.485	2.611	II
Total nitrogen	mg/l	20	0.87	2.38	4.48	2.38	3.77	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.044	0.164	0.036	0.066	II
Total phosphorus	mg/l	20	0.035	0.337	2.560	0.110	0.517	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	1.3	2.5	3.7			I
Conductivity	µS/cm	22	373	434	534	438	499	
Calcium (Ca++)	mg/l	12	32.0	49.4	60.1	48.0	56.1	
Sulphate (SO4--)	mg/l	13	21.6	33.3	50.3	31.2	40.6	
Magnesium (Mg++)	mg/l	11	19.4	25.2	34.0	23.5	33.0	
Potassium (K+)	mg/l	8	1.2	1.8	2.4	1.7		
Sodium (Na+)	mg/l	8	15.0	20.1	29.4	18.4		
Manganese (Mn)	mg/l	23	0.0200	0.1574	0.3630	0.1440	0.3024	
Iron (Fe)	mg/l	23	0.077	0.875	2.570	0.772	1.758	
Chloride (Cl-)	mg/l	17	20.7	28.5	48.2	27.5	34.4	
Silicates (SiO2)	mg/l	21	5.22	9.55	13.89	9.88	12.62	
Zinc (Zn), dissolved	µg/l	21	10.00	12.29	32.00	10.00	16.00	III
Copper (Cu), dissolved	µg/l	21	1.76	3.83	6.47	3.32	5.70	III
Chromium (Cr), total dissolved	µg/l	21	0.05	0.88	2.46	0.83	1.74	II
Lead (Pb), dissolved	µg/l	21	0.05	0.78	4.95	0.41	1.42	III
Cadmium (Cd), dissolved	µg/l	21	<	0.05	0.09	0.32	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	21	0.05	1.24	3.44	1.11	2.26	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	32.61	76.00	30.00	63.40	II
Copper (Cu)	µg/l	23	3.15	12.25	22.13	10.84	19.76	II
Chromium (Cr) - total	µg/l	23	0.73	4.51	18.29	3.09	7.54	II
Lead (Pb)	µg/l	23	1.19	5.33	15.62	4.12	8.65	III
Cadmium (Cd)	µg/l	23	0.05	1.06	11.40	0.20	2.44	IV
Mercury (Hg)	µg/l	21	0.025	0.042	0.300	0.025	0.051	II
Nickel (Ni)	µg/l	23	1.11	5.75	11.15	4.76	9.93	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.099	0.218	0.101		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	10	<	0.010	2.450	7.058	2.351	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	22	0.0050	0.0099	0.0460	0.0075	0.0138	I
pp-DDT	µg/l	22	0.0100	0.0183	0.0520	0.0135	0.0307	IV
Atrazine	µg/l	22	0.060	0.086	0.524	0.060	0.085	II
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	0.020	1.443	5.400	1.100		
Faecal coliforms (44 C)	1000CFU/100m	10	0.020	0.814	5.400	0.094		
Faecal streptococci	1000CFU/100m	10	0.000	0.006	0.023	0.003		
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	2005
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	4310.0	8710.7	14040.0	8020.0	13360.0	
Temperature	°C	20	1.5	13.7	26.5	15.0	23.1	
Suspended solids	mg/l	20	6.0	66.7	252.0	42.5	129.5	
Dissolved oxygen	mg/l	22	7.0	9.4	12.2	8.8	7.4	I
BOD (5)	mg/l	22	1.1	1.7	2.5	1.7	2.3	I
COD (Mn)	mg/l	12	2.4	3.9	6.7	3.8	5.3	II
COD (Cr)	mg/l	18	12.0	27.4	55.0	26.2	36.8	III
TOC	mg/l							
DOC	mg/l							
pH	-	21	7.4	7.9	8.4	7.8	8.4	II
							7.6	II
Alkalinity - total	mmol/l	12	2.5	3.0	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	21	0.024	0.198	0.503	0.205	0.376	III
Nitrite (NO2-N)	mg/l	22	0.005	0.039	0.168	0.039	0.056	II
Nitrate (NO3-N)	mg/l	22	0.205	1.621	3.340	1.495	2.727	II
Total nitrogen	mg/l	20	0.64	2.37	4.13	2.36	3.73	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.036	0.124	0.036	0.062	II
Total phosphorus	mg/l	20	0.027	0.329	2.700	0.115	0.493	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	3.9	4.7	5.5			I
Conductivity	µS/cm	22	368	431	534	431	487	
Calcium (Ca++)	mg/l	12	29.0	49.5	64.1	49.3	55.9	
Sulphate (SO4--)	mg/l	13	18.9	31.0	43.7	31.7	36.5	
Magnesium (Mg++)	mg/l	11	19.4	26.5	36.4	26.7	33.0	
Potassium (K+)	mg/l	8	1.2	1.8	2.6	1.6		
Sodium (Na+)	mg/l	8	12.2	19.9	29.2	18.3		
Manganese (Mn)	mg/l	23	0.0240	0.1540	0.5320	0.1380	0.2316	
Iron (Fe)	mg/l	23	0.060	0.896	4.809	0.448	1.950	
Chloride (Cl-)	mg/l	17	21.1	28.5	41.4	27.5	37.2	
Silicates (SiO2)	mg/l	21	5.28	9.15	13.03	9.84	11.45	
Zinc (Zn), dissolved	µg/l	23	10.00	14.04	35.00	10.00	27.40	III
Copper (Cu), dissolved	µg/l	23	1.58	4.54	9.45	4.23	6.79	III
Chromium (Cr), total dissolved	µg/l	23	0.06	0.95	2.41	0.79	1.82	II
Lead (Pb), dissolved	µg/l	23	0.05	1.09	3.98	0.61	2.74	III
Cadmium (Cd), dissolved	µg/l	23	<	0.05	0.10	0.48	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	23	0.05	1.55	4.58	1.19	3.13	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	33.22	85.00	21.00	58.60	II
Copper (Cu)	µg/l	23	4.61	12.69	25.50	10.85	21.76	III
Chromium (Cr) - total	µg/l	23	0.09	3.54	15.02	2.48	10.00	II
Lead (Pb)	µg/l	23	0.81	4.11	8.99	3.76	6.86	III
Cadmium (Cd)	µg/l	23	0.05	0.70	3.49	0.21	2.63	IV
Mercury (Hg)	µg/l	20	0.025	0.028	0.085	0.025	0.027	II
Nickel (Ni)	µg/l	23	1.54	5.49	14.86	4.84	9.10	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.097	0.255	0.103		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	<	0.010	3.917	8.235	3.711	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	23	0.0050	0.0079	0.0190	0.0070	0.0128	I
pp-DDT	µg/l	23	0.0100	0.0188	0.0380	0.0130	0.0368	IV
Atrazine	µg/l	23	0.060	0.069	0.137	0.060	0.098	II
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	0.000	1.434	3.500	0.550		
Faecal coliforms (44 C)	1000CFU/100m	10	0.000	0.752	3.500	0.155		
Faecal streptococci	1000CFU/100m	10	0.000	0.024	0.170	0.008		
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 132
 Location: Right

Catchment: 805700 km2
 Altitude: 4 m
 2005
 RO05

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	4310.0	8710.7	14040.0	8020.0	13360.0	
Temperature	°C	20	1.5	13.8	26.5	15.0	23.8	
Suspended solids	mg/l	20	4.0	71.2	301.0	45.5	145.2	
Dissolved oxygen	mg/l	22	7.1	9.4	12.2	9.0	7.3	I
BOD (5)	mg/l	22	1.1	1.7	2.8	1.7	2.5	I
COD (Mn)	mg/l	12	2.4	3.8	5.7	3.5	5.3	II
COD (Cr)	mg/l	18	15.5	28.3	51.0	26.0	40.9	III
TOC	mg/l							
DOC	mg/l							
pH	-	21	6.3	7.8	8.5	7.9	8.2	II
							7.5	II
Alkalinity - total	mmol/l	12	2.6	3.0	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	21	0.060	0.196	0.401	0.187	0.320	III
Nitrite (NO2-N)	mg/l	22	0.005	0.035	0.072	0.030	0.069	III
Nitrate (NO3-N)	mg/l	22	0.272	1.508	3.390	1.330	2.553	II
Total nitrogen	mg/l	20	0.75	2.21	4.23	2.16	3.37	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	22	0.005	0.041	0.170	0.035	0.081	II
Total phosphorus	mg/l	20	0.030	0.265	1.430	0.114	0.487	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	2	1.3	1.3	1.3			I
Conductivity	µS/cm	22	369	430	531	433	487	
Calcium (Ca++)	mg/l	12	32.0	48.7	64.1	48.0	54.4	
Sulphate (SO4--)	mg/l	13	22.0	31.2	45.1	31.1	38.0	
Magnesium (Mg++)	mg/l	11	14.5	25.2	38.9	24.3	33.0	
Potassium (K+)	mg/l	8	1.2	1.8	2.4	1.7		
Sodium (Na+)	mg/l	8	14.0	19.7	28.8	18.2		
Manganese (Mn)	mg/l	23	0.0200	0.1330	0.3340	0.1190	0.2098	
Iron (Fe)	mg/l	23	0.062	0.894	3.917	0.663	1.830	
Chloride (Cl-)	mg/l	17	21.1	28.1	34.5	27.5	34.4	
Silicates (SiO2)	mg/l	21	5.09	9.56	13.07	10.44	12.33	
Zinc (Zn), dissolved	µg/l	21	10.00	16.05	57.00	10.00	24.00	III
Copper (Cu), dissolved	µg/l	21	0.58	3.50	7.57	3.49	4.89	III
Chromium (Cr), total dissolved	µg/l	21	0.24	0.92	1.97	0.80	1.75	II
Lead (Pb), dissolved	µg/l	21	0.05	0.81	3.62	0.35	1.93	III
Cadmium (Cd), dissolved	µg/l	21	<	0.05	0.13	1.28	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	21	0.05	1.28	6.39	0.92	3.17	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	23	10.00	37.26	140.00	31.00	70.80	II
Copper (Cu)	µg/l	23	3.52	14.06	30.58	13.36	25.72	III
Chromium (Cr) - total	µg/l	23	0.61	4.09	17.03	2.85	9.68	II
Lead (Pb)	µg/l	23	0.05	4.36	9.21	4.37	6.94	III
Cadmium (Cd)	µg/l	23	0.05	0.44	2.39	0.23	1.05	III
Mercury (Hg)	µg/l	21	0.025	0.026	0.035	0.025	0.028	II
Nickel (Ni)	µg/l	23	0.96	5.30	12.45	4.82	8.95	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.120	0.304	0.107		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	<	0.010	4.453	18.340	2.941	8.235
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	23	0.0050	0.0088	0.0170	0.0080	0.0150	I
pp-DDT	µg/l	23	0.0100	0.0167	0.0450	0.0110	0.0276	IV
Atrazine	µg/l	23	0.060	0.077	0.243	0.060	0.108	III
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	0.000	1.693	5.400	0.490		
Faecal coliforms (44 C)	1000CFU/100m	10	0.000	0.263	1.300	0.140		
Faecal streptococci	1000CFU/100m	10	0.000	0.014	0.070	0.004		
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	2005
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	1860.0	4327.8	7420.0	3960.0	6912.0	
Temperature	°C	12	0.0	12.7	24.5	13.0	23.4	
Suspended solids	mg/l	12	14.0	47.2	131.0	39.5	85.1	
Dissolved oxygen	mg/l	12	6.7	9.0	12.5	8.1	6.9	II
BOD (5)	mg/l	12	0.8	2.0	3.2	2.0	2.8	I
COD (Mn)	mg/l	12	1.3	3.7	6.7	3.6	4.8	I
COD (Cr)	mg/l	11	22.3	29.7	39.5	27.2	38.3	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.8	7.7	8.3	7.7	8.2	II
							7.3	II
Alkalinity - total	mmol/l	12	2.6	3.0	3.6	2.9	3.4	
Ammonium (NH4-N)	mg/l	12	0.020	0.187	0.493	0.143	0.403	III
Nitrite (NO2-N)	mg/l	12	0.005	0.026	0.053	0.027	0.047	II
Nitrate (NO3-N)	mg/l	12	0.452	1.645	2.730	1.715	2.602	II
Total nitrogen	mg/l	12	0.94	2.21	3.38	2.40	3.18	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.051	0.125	0.051	0.084	II
Total phosphorus	mg/l	12	0.082	0.153	0.293	0.140	0.215	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	1.2	5.1	8.7			I
Conductivity	µS/cm	12	361	431	493	440	487	
Calcium (Ca++)	mg/l	12	44.0	53.7	64.1	53.3	63.5	
Sulphate (SO4--)	mg/l	12	25.5	32.8	39.3	31.8	38.4	
Magnesium (Mg++)	mg/l	12	14.5	24.8	34.0	25.4	29.1	
Potassium (K+)	mg/l	9	1.0	1.8	2.8	1.5		
Sodium (Na+)	mg/l	9	11.2	19.8	29.6	18.2		
Manganese (Mn)	mg/l	12	0.0230	0.1050	0.2570	0.0900	0.1838	
Iron (Fe)	mg/l	12	0.060	0.695	2.792	0.345	1.481	
Chloride (Cl-)	mg/l	12	20.7	29.5	48.2	27.8	34.4	
Silicates (SiO2)	mg/l	11	5.16	9.03	13.16	9.83	12.02	
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	10.00	38.08	110.00	30.00	66.90	II
Copper (Cu)	µg/l	12	4.95	11.75	19.26	9.49	18.30	II
Chromium (Cr) - total	µg/l	12	0.50	2.42	9.81	1.65	4.37	II
Lead (Pb)	µg/l	12	0.07	3.72	11.11	2.30	6.58	III
Cadmium (Cd)	µg/l	12	0.05	0.35	1.69	0.10	0.87	II
Mercury (Hg)	µg/l	11	0.025	0.036	0.083	0.025	0.078	II
Nickel (Ni)	µg/l	12	0.87	4.13	8.26	3.90	7.85	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.094	0.218	0.104		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.010	3.952	8.823	4.115	6.940	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0089	0.0200	0.0055	0.0169	I
pp-DDT	µg/l	12	0.0100	0.0206	0.0520	0.0160	0.0352	IV
Atrazine	µg/l	12	0.060	0.078	0.121	0.060	0.120	III
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	0.000	2.136	16.000	0.230	2.800	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.282	1.700	0.040	0.700	
Faecal streptococci	1000CFU/100m	11	0.000	0.089	0.920	0.002	0.031	
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	2005
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	1860.0	4327.8	7420.0	3960.0	6912.0	
Temperature	°C	12	0.0	12.7	24.5	13.0	23.4	
Suspended solids	mg/l	12	14.0	50.8	95.0	44.0	88.1	
Dissolved oxygen	mg/l	12	6.8	9.0	12.4	8.2	7.0	II
BOD (5)	mg/l	12	0.9	2.0	3.1	2.0	2.9	I
COD (Mn)	mg/l	12	2.2	4.0	6.4	3.9	5.0	I
COD (Cr)	mg/l	11	23.6	30.1	38.7	27.6	37.9	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.2	7.5	8.3	7.7	8.3	II
							6.5	II
Alkalinity - total	mmol/l	12	2.6	3.0	3.6	2.9	3.4	
Ammonium (NH4-N)	mg/l	12	0.044	0.213	0.434	0.202	0.368	III
Nitrite (NO2-N)	mg/l	12	0.005	0.017	0.034	0.016	0.031	II
Nitrate (NO3-N)	mg/l	12	0.342	1.658	3.170	1.650	2.848	II
Total nitrogen	mg/l	12	0.75	2.26	4.07	2.29	3.50	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.043	0.139	0.042	0.065	II
Total phosphorus	mg/l	12	0.075	0.147	0.312	0.120	0.274	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	4.7	6.0	7.8			I
Conductivity	µS/cm	12	366	429	491	423	489	
Calcium (Ca++)	mg/l	12	42.8	51.8	60.1	52.1	58.1	
Sulphate (SO4--)	mg/l	12	27.4	32.7	39.9	30.7	38.6	
Magnesium (Mg++)	mg/l	12	14.5	26.3	36.5	26.3	33.8	
Potassium (K+)	mg/l	9	1.2	1.8	2.8	1.6		
Sodium (Na+)	mg/l	9	14.6	20.0	29.4	18.4		
Manganese (Mn)	mg/l	12	0.0520	0.1234	0.2660	0.1035	0.2082	
Iron (Fe)	mg/l	12	0.088	0.876	2.982	0.463	2.604	
Chloride (Cl-)	mg/l	12	21.7	30.1	41.3	28.1	34.4	
Silicates (SiO2)	mg/l	11	5.20	9.15	14.80	8.60	14.47	
Zinc (Zn), dissolved	µg/l	12	10.00	19.42	55.00	10.00	43.60	III
Copper (Cu), dissolved	µg/l	12	1.42	3.43	6.08	3.03	5.20	III
Chromium (Cr), total dissolved	µg/l	12	0.05	0.59	1.10	0.61	1.03	II
Lead (Pb), dissolved	µg/l	11	0.05	0.61	2.90	0.32	1.89	III
Cadmium (Cd), dissolved	µg/l	12	<	0.05	0.05	0.11	0.05	II
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	11	0.05	0.95	2.20	0.90	1.73	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	44.92	172.00	31.50	71.40	II
Copper (Cu)	µg/l	12	3.45	12.39	28.73	9.75	20.57	III
Chromium (Cr) - total	µg/l	12	0.85	2.35	9.48	1.48	3.26	II
Lead (Pb)	µg/l	12	0.05	4.57	16.58	2.76	10.39	IV
Cadmium (Cd)	µg/l	12	0.05	0.08	0.15	0.06	0.14	II
Mercury (Hg)	µg/l	11	0.025	0.037	0.092	0.025	0.060	II
Nickel (Ni)	µg/l	12	1.86	5.01	10.21	3.90	9.86	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.101	0.255	0.110		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	<	0.010	3.679	5.882	4.412	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0077	0.0140	0.0050	0.0120	I
pp-DDT	µg/l	12	0.0100	0.0237	0.1040	0.0130	0.0363	IV
Atrazine	µg/l	12	0.060	0.072	0.183	0.060	0.083	II
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	0.000	2.034	16.000	0.045	3.500	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.307	1.700	0.045	0.700	
Faecal streptococci	1000CFU/100m	11	0.000	0.051	0.540	0.000	0.013	
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	2005
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	1860.0	4327.8	7420.0	3960.0	6912.0	
Temperature	°C	12	0.0	12.7	24.5	13.0	23.4	
Suspended solids	mg/l	12	17.0	49.6	105.0	48.5	80.3	
Dissolved oxygen	mg/l	12	6.7	8.9	12.5	8.1	7.0	II
BOD (5)	mg/l	12	0.9	2.0	3.2	2.0	2.7	I
COD (Mn)	mg/l	12	2.8	4.1	6.4	3.9	5.0	I
COD (Cr)	mg/l	11	22.8	30.2	37.6	27.8	37.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.5	7.6	8.2	7.7	8.0	II
							6.8	II
Alkalinity - total	mmol/l	12	2.5	3.0	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	12	0.020	0.235	0.591	0.194	0.431	III
Nitrite (NO2-N)	mg/l	12	0.005	0.020	0.045	0.018	0.029	II
Nitrate (NO3-N)	mg/l	12	0.240	1.652	3.210	1.780	2.888	II
Total nitrogen	mg/l	12	0.81	2.28	3.86	2.51	3.67	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.009	0.066	0.176	0.052	0.123	III
Total phosphorus	mg/l	12	0.087	0.171	0.309	0.141	0.287	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	1.2	3.2	7.1			I
Conductivity	µS/cm	12	371	432	493	421	490	
Calcium (Ca++)	mg/l	12	42.8	50.8	60.1	51.3	55.9	
Sulphate (SO4--)	mg/l	12	22.1	32.2	42.0	31.0	39.1	
Magnesium (Mg++)	mg/l	12	14.5	24.3	36.5	25.2	29.0	
Potassium (K+)	mg/l	9	1.2	2.0	2.8	1.8		
Sodium (Na+)	mg/l	9	15.0	20.1	29.4	18.8		
Manganese (Mn)	mg/l	12	0.0200	0.0898	0.1720	0.0875	0.1506	
Iron (Fe)	mg/l	12	0.070	0.720	2.348	0.511	1.375	
Chloride (Cl-)	mg/l	12	21.7	30.7	48.2	28.1	34.4	
Silicates (SiO2)	mg/l	11	4.96	9.01	16.17	7.81	15.00	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l	1	0.99	0.99	0.99			II
Lead (Pb), dissolved	µg/l	1	2.10	2.10	2.10			III
Cadmium (Cd), dissolved	µg/l							
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	1	0.81	0.81	0.81			II
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	23.50	60.00	22.00	34.60	II
Copper (Cu)	µg/l	12	3.17	13.67	45.59	8.76	20.59	III
Chromium (Cr) - total	µg/l	12	0.19	2.71	9.44	1.59	7.82	II
Lead (Pb)	µg/l	12	0.05	4.22	12.01	2.76	9.99	III
Cadmium (Cd)	µg/l	12	0.05	0.34	2.15	0.06	0.73	II
Mercury (Hg)	µg/l	10	0.025	0.031	0.065	0.025		II
Nickel (Ni)	µg/l	12	0.22	4.13	11.24	2.79	8.38	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	10	0.025	0.108	0.304	0.110		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.010	3.677	8.235	4.700	5.882	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0086	0.0170	0.0075	0.0128	I
pp-DDT	µg/l	12	0.0100	0.0238	0.0720	0.0110	0.0591	V
Atrazine	µg/l	12	0.060	0.068	0.105	0.060	0.101	III
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	0.000	1.118	4.300	0.140	3.500	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.393	2.400	0.110	1.100	
Faecal streptococci	1000CFU/100m	11	0.000	0.023	0.240	0.002	0.006	
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	2005
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	781.0	1598.7	2470.0	1640.0	2140.0	
Temperature	°C	12	1.5	13.2	24.5	13.3	23.9	
Suspended solids	mg/l	12	13.0	48.3	138.0	40.5	90.7	
Dissolved oxygen	mg/l	12	6.5	8.8	11.4	8.6	6.8	II
BOD (5)	mg/l	12	0.8	2.4	4.2	2.6	4.0	II
COD (Mn)	mg/l	12	2.5	4.4	5.6	4.3	5.2	II
COD (Cr)	mg/l	12	24.0	31.3	38.9	31.9	38.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.7	7.6	8.4	7.7	8.2	II
							7.2	II
Alkalinity - total	mmol/l	12	2.6	3.1	3.6	2.9	3.5	
Ammonium (NH4-N)	mg/l	12	0.027	0.180	0.639	0.116	0.281	II
Nitrite (NO2-N)	mg/l	12	0.005	0.024	0.076	0.024	0.032	II
Nitrate (NO3-N)	mg/l	12	0.292	1.511	2.600	1.845	2.033	II
Total nitrogen	mg/l	12	0.70	2.05	3.21	2.41	2.65	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.039	0.083	0.031	0.073	II
Total phosphorus	mg/l	12	0.079	0.127	0.219	0.106	0.200	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	5.2	6.2	8.1			I
Conductivity	µS/cm	12	374	429	521	422	471	
Calcium (Ca++)	mg/l	12	38.9	51.1	68.1	51.3	63.1	
Sulphate (SO4--)	mg/l	12	27.1	34.9	44.8	34.6	40.5	
Magnesium (Mg++)	mg/l	12	14.5	24.3	32.8	25.1	29.0	
Potassium (K+)	mg/l	9	0.8	1.7	2.8	1.6		
Sodium (Na+)	mg/l	8	11.2	20.4	28.9	20.0		
Manganese (Mn)	mg/l	12	0.0400	0.0967	0.2240	0.0865	0.1447	
Iron (Fe)	mg/l	12	0.089	0.725	2.258	0.341	1.661	
Chloride (Cl-)	mg/l	12	21.0	29.5	34.4	28.3	34.4	
Silicates (SiO2)	mg/l	11	5.05	8.57	11.70	8.10	11.52	
Zinc (Zn), dissolved	µg/l							
Copper (Cu), dissolved	µg/l							
Chromium (Cr), total dissolved	µg/l							
Lead (Pb), dissolved	µg/l	1	0.35	0.35	0.35			II
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	10.00	47.67	157.00	30.00	141.50	III
Copper (Cu)	µg/l	12	3.42	9.45	21.71	8.23	17.02	II
Chromium (Cr) - total	µg/l	12	0.53	2.41	7.53	1.58	4.97	II
Lead (Pb)	µg/l	12	1.18	3.36	6.34	3.01	5.68	III
Cadmium (Cd)	µg/l	12	0.05	0.21	1.59	0.05	0.27	II
Mercury (Hg)	µg/l	10	0.025	0.029	0.055	0.025		II
Nickel (Ni)	µg/l	12	0.47	4.66	13.88	3.46	8.11	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0062	0.0170	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.105	0.256	0.103	0.202	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.010	3.589	8.235	2.706	6.933	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0060	0.0100	0.0050	0.0079	I
pp-DDT	µg/l	12	0.0100	0.0182	0.0600	0.0100	0.0288	IV
Atrazine	µg/l	12	0.060	0.072	0.156	0.060	0.097	II
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	0.018	2.171	16.000	0.230	3.600	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.531	3.600	0.060	1.700	
Faecal streptococci	1000CFU/100m	11	0.000	0.023	0.130	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
 Distance from the mouth 0
 Location: Middle

Catchment: 817000 km2
 Altitude: 1 m
 2005
 RO07

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	781.0	1598.7	2470.0	1640.0	2140.0	
Temperature	°C	12	1.5	13.2	24.5	13.3	23.9	
Suspended solids	mg/l	12	14.0	46.7	123.0	38.5	76.0	
Dissolved oxygen	mg/l	12	6.6	8.8	11.3	8.8	6.9	II
BOD (5)	mg/l	12	0.9	2.4	4.2	2.4	4.1	II
COD (Mn)	mg/l	12	2.5	4.1	5.3	4.1	4.8	I
COD (Cr)	mg/l	12	23.0	30.5	39.3	29.1	39.1	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.1	7.7	8.3	7.7	8.3	II
							7.5	II
Alkalinity - total	mmol/l	12	2.6	3.1	4.0	3.0	3.5	
Ammonium (NH4-N)	mg/l	12	0.057	0.254	0.843	0.178	0.471	III
Nitrite (NO2-N)	mg/l	12	0.005	0.034	0.128	0.022	0.070	III
Nitrate (NO3-N)	mg/l	12	0.255	1.543	2.940	1.690	2.391	II
Total nitrogen	mg/l	12	0.66	2.19	3.60	2.39	3.05	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.042	0.088	0.036	0.083	II
Total phosphorus	mg/l	12	0.082	0.131	0.270	0.122	0.149	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	2.4	3.3	4.1			I
Conductivity	µS/cm	12	372	428	520	422	469	
Calcium (Ca++)	mg/l	12	38.9	48.8	68.1	47.3	55.9	
Sulphate (SO4--)	mg/l	12	29.0	34.9	47.5	33.9	40.6	
Magnesium (Mg++)	mg/l	12	14.5	24.9	38.9	23.0	34.5	
Potassium (K+)	mg/l	9	0.6	1.8	2.8	1.8		
Sodium (Na+)	mg/l	8	11.2	19.9	28.6	19.2		
Manganese (Mn)	mg/l	12	0.0430	0.1211	0.2270	0.0980	0.1949	
Iron (Fe)	mg/l	12	0.084	0.911	2.508	0.525	2.167	
Chloride (Cl-)	mg/l	12	21.0	28.9	41.3	27.5	34.4	
Silicates (SiO2)	mg/l	11	4.97	8.59	12.68	8.56	10.72	
Zinc (Zn), dissolved	µg/l	12	10.00	36.00	124.00	17.00	104.40	III
Copper (Cu), dissolved	µg/l	12	0.05	3.16	9.47	2.28	7.15	III
Chromium (Cr), total dissolved	µg/l	12	0.05	0.46	0.88	0.46	0.80	II
Lead (Pb), dissolved	µg/l	11	0.05	1.31	5.84	0.21	2.82	III
Cadmium (Cd), dissolved	µg/l	12	<	0.05	0.10	0.05	0.05	II
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	12	0.05	1.02	2.53	1.01	1.42	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	80.00	374.00	34.00	226.70	IV
Copper (Cu)	µg/l	12	5.65	12.75	28.23	10.43	21.79	III
Chromium (Cr) - total	µg/l	12	1.15	3.65	7.84	2.60	7.33	II
Lead (Pb)	µg/l	12	0.21	4.45	11.51	3.62	10.52	IV
Cadmium (Cd)	µg/l	12	0.05	0.35	1.82	0.05	1.18	III
Mercury (Hg)	µg/l	10	0.025	0.030	0.056	0.027		II
Nickel (Ni)	µg/l	12	1.66	5.54	11.41	3.58	10.69	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0061	0.0160	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.104	0.212	0.104	0.200	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	4	1.176	2.794	4.705	2.647		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0071	0.0120	0.0070	0.0080	I
pp-DDT	µg/l	12	0.0100	0.0186	0.0470	0.0130	0.0350	IV
Atrazine	µg/l	12	0.060	0.069	0.112	0.060	0.090	II
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	0.018	1.483	9.200	0.170	2.500	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.663	3.500	0.078	2.500	
Faecal streptococci	1000CFU/100m	11	0.000	0.013	0.070	0.008	0.017	
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 0
 Location: Right

Catchment: 817000 km2
 Altitude: 1 m
 2005
 RO07

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	781.0	1598.7	2470.0	1640.0	2140.0	
Temperature	°C	12	1.5	13.2	24.5	13.3	23.9	
Suspended solids	mg/l	12	13.0	44.1	86.0	43.5	77.8	
Dissolved oxygen	mg/l	12	6.5	8.9	11.4	8.8	6.9	II
BOD (5)	mg/l	12	0.8	2.3	4.2	1.9	3.9	II
COD (Mn)	mg/l	12	2.5	4.0	5.2	4.1	4.8	I
COD (Cr)	mg/l	12	23.8	29.8	39.5	28.7	34.9	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.9	7.6	8.3	7.6	8.1	II
							7.0	II
Alkalinity - total	mmol/l	12	2.6	3.0	3.6	3.0	3.5	
Ammonium (NH4-N)	mg/l	12	0.022	0.237	0.738	0.169	0.448	III
Nitrite (NO2-N)	mg/l	12	0.005	0.019	0.041	0.017	0.038	II
Nitrate (NO3-N)	mg/l	12	0.427	1.605	3.120	1.665	3.018	III
Total nitrogen	mg/l	12	0.79	2.24	3.86	2.45	3.70	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.032	0.072	0.034	0.059	II
Total phosphorus	mg/l	12	0.076	0.135	0.288	0.111	0.185	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	2.4	5.7	7.8			I
Conductivity	µS/cm	12	379	428	513	431	468	
Calcium (Ca++)	mg/l	12	38.9	49.4	56.1	50.1	56.1	
Sulphate (SO4--)	mg/l	12	25.0	33.6	44.8	32.0	38.2	
Magnesium (Mg++)	mg/l	12	17.0	25.1	35.2	24.3	33.5	
Potassium (K+)	mg/l	9	0.8	1.8	2.7	1.6		
Sodium (Na+)	mg/l	8	12.0	21.0	28.8	21.1		
Manganese (Mn)	mg/l	12	0.0480	0.0878	0.1210	0.0895	0.1201	
Iron (Fe)	mg/l	12	0.157	0.692	1.810	0.354	1.754	
Chloride (Cl-)	mg/l	12	27.5	30.7	41.3	28.1	40.6	
Silicates (SiO2)	mg/l	11	4.33	8.29	12.25	7.96	12.21	
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	10.00	54.25	193.00	33.00	157.70	III
Copper (Cu)	µg/l	12	4.92	10.28	26.02	8.15	18.49	II
Chromium (Cr) - total	µg/l	12	0.95	2.52	6.48	1.51	5.19	II
Lead (Pb)	µg/l	12	0.67	4.90	9.46	3.81	9.22	III
Cadmium (Cd)	µg/l	12	0.05	0.31	1.69	0.05	0.93	II
Mercury (Hg)	µg/l	10	0.025	0.027	0.042	0.025		II
Nickel (Ni)	µg/l	12	1.22	4.34	9.82	3.81	7.91	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0062	0.0170	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.106	0.232	0.107	0.203	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.010	4.216	10.588	4.700	8.235	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0085	0.0180	0.0075	0.0130	I
pp-DDT	µg/l	12	0.0100	0.0269	0.0750	0.0205	0.0507	V
Atrazine	µg/l	12	0.060	0.093	0.410	0.060	0.085	II
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	0.000	3.478	16.000	0.220	16.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	3.146	16.000	0.110	16.000	
Faecal streptococci	1000CFU/100m	11	0.000	0.012	0.070	0.005	0.023	
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	2005
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	490.0	2113.3	2790.0	2130.0	2710.0	
Temperature	°C	11	4.0	12.0	24.0	9.0	22.5	
Suspended solids	mg/l	12	13.0	63.2	193.0	51.0	123.2	
Dissolved oxygen	mg/l	12	6.1	8.6	12.1	8.1	6.5	II
BOD (5)	mg/l	12	0.5	1.8	3.0	1.9	2.8	I
COD (Mn)	mg/l	11	2.8	4.3	5.5	4.1	5.4	II
COD (Cr)	mg/l	11	22.0	30.1	37.8	29.4	37.3	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.1	7.5	8.1	7.6	7.9	II
							7.1	II
Alkalinity - total	mmol/l	12	2.6	3.7	9.4	3.1	4.3	
Ammonium (NH4-N)	mg/l	12	0.020	0.230	0.518	0.138	0.451	III
Nitrite (NO2-N)	mg/l	12	0.005	0.024	0.112	0.019	0.030	II
Nitrate (NO3-N)	mg/l	12	0.528	1.557	3.270	1.465	3.101	III
Total nitrogen	mg/l	12	1.11	2.16	4.02	2.07	3.78	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.047	0.165	0.022	0.129	III
Total phosphorus	mg/l	11	0.080	0.126	0.176	0.134	0.162	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	3.4	8.0	12.2			I
Conductivity	µS/cm	12	362	434	520	453	478	
Calcium (Ca++)	mg/l	12	36.0	49.4	60.1	50.5	54.5	
Sulphate (SO4--)	mg/l	11	25.4	35.7	45.8	36.5	42.1	
Magnesium (Mg++)	mg/l	12	14.5	25.3	41.3	24.3	32.5	
Potassium (K+)	mg/l	8	0.8	1.8	2.6	1.8		
Sodium (Na+)	mg/l	8	11.0	22.8	28.6	25.4		
Manganese (Mn)	mg/l	12	0.0620	0.1112	0.2050	0.1080	0.1451	
Iron (Fe)	mg/l	12	0.064	0.944	2.357	0.749	2.120	
Chloride (Cl-)	mg/l	12	21.8	31.8	48.2	28.1	41.3	
Silicates (SiO2)	mg/l	11	5.01	8.46	12.60	9.05	10.75	
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	10.00	25.67	57.00	23.50	43.30	II
Copper (Cu)	µg/l	12	0.63	11.16	38.40	7.78	17.69	II
Chromium (Cr) - total	µg/l	12	0.82	3.11	7.82	2.44	5.69	II
Lead (Pb)	µg/l	12	1.02	3.88	8.22	3.45	6.87	III
Cadmium (Cd)	µg/l	12	0.05	0.26	0.97	0.17	0.63	II
Mercury (Hg)	µg/l	11	0.025	0.033	0.058	0.025	0.053	II
Nickel (Ni)	µg/l	12	1.10	6.02	19.69	3.92	11.18	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.095	0.167	0.097	0.158	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11 <	0.010	2.890	8.820	2.350	8.235	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0074	0.0120	0.0070	0.0100	I
pp-DDT	µg/l	12	0.0100	0.0213	0.0580	0.0110	0.0548	V
Atrazine	µg/l	12	0.060	0.069	0.146	0.060	0.073	II
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	0.020	0.681	3.500	0.230	1.400	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.525	3.500	0.060	1.300	
Faecal streptococci	1000CFU/100m	11	0.000	0.028	0.220	0.005	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
 Distance from the mouth 0
 Location: Middle

Catchment: 817000 km2
 Altitude: 1 m
 2005
 RO08

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	490.0	2113.3	2790.0	2130.0	2710.0	
Temperature	°C	11	4.0	12.0	24.0	9.0	22.5	
Suspended solids	mg/l	12	19.0	69.6	195.0	50.0	170.8	
Dissolved oxygen	mg/l	12	6.6	8.7	12.1	8.0	6.7	II
BOD (5)	mg/l	12	0.5	1.9	3.1	1.9	2.8	I
COD (Mn)	mg/l	11	2.5	4.5	6.9	4.3	5.9	II
COD (Cr)	mg/l	11	22.0	29.4	37.2	26.2	37.2	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	6.8	7.5	8.0	7.4	7.9	II
							7.2	II
Alkalinity - total	mmol/l	12	2.7	3.2	3.8	3.0	3.6	
Ammonium (NH4-N)	mg/l	12	0.044	0.267	0.690	0.189	0.518	III
Nitrite (NO2-N)	mg/l	12	0.005	0.017	0.035	0.016	0.032	II
Nitrate (NO3-N)	mg/l	12	0.581	1.653	3.290	1.475	2.995	II
Total nitrogen	mg/l	12	1.14	2.32	4.16	2.21	3.83	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.060	0.236	0.026	0.136	III
Total phosphorus	mg/l	11	0.080	0.135	0.315	0.110	0.185	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	1.2	3.5	6.2			I
Conductivity	µS/cm	12	381	436	521	445	479	
Calcium (Ca++)	mg/l	12	44.0	50.7	64.1	49.3	54.5	
Sulphate (SO4--)	mg/l	11	28.3	36.5	52.9	35.3	47.0	
Magnesium (Mg++)	mg/l	12	17.0	25.2	33.0	25.5	29.2	
Potassium (K+)	mg/l	8	0.8	1.8	2.6	1.7		
Sodium (Na+)	mg/l	8	11.4	22.5	29.0	24.5		
Manganese (Mn)	mg/l	12	0.0560	0.1237	0.2990	0.0785	0.2296	
Iron (Fe)	mg/l	12	0.129	1.062	3.679	0.777	1.907	
Chloride (Cl-)	mg/l	12	21.8	31.5	41.3	28.3	41.0	
Silicates (SiO2)	mg/l	11	5.40	8.64	12.60	8.96	11.22	
Zinc (Zn), dissolved	µg/l	12	10.00	15.42	27.00	10.00	25.90	III
Copper (Cu), dissolved	µg/l	12	0.21	3.46	8.39	3.74	6.70	III
Chromium (Cr), total dissolved	µg/l	11	0.05	0.79	1.83	0.91	1.26	II
Lead (Pb), dissolved	µg/l	12	0.05	1.34	6.63	0.58	2.26	III
Cadmium (Cd), dissolved	µg/l	12	<	0.05	0.11	0.30	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	12	0.05	1.36	2.13	1.53	1.91	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	22.92	42.00	22.00	39.40	II
Copper (Cu)	µg/l	12	0.83	9.53	22.50	7.67	14.06	II
Chromium (Cr) - total	µg/l	12	1.21	4.62	13.76	3.36	8.17	II
Lead (Pb)	µg/l	12	0.87	4.31	8.90	3.22	8.15	III
Cadmium (Cd)	µg/l	12	0.05	0.33	1.31	0.19	0.72	II
Mercury (Hg)	µg/l	10	0.025	0.037	0.091	0.025		II
Nickel (Ni)	µg/l	12	1.49	6.58	19.10	3.73	12.70	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.096	0.178	0.096	0.168	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	2	<	0.010	2.358	4.705		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	11	0.0050	0.0068	0.0120	0.0050	0.0110	I
pp-DDT	µg/l	12	0.0100	0.0164	0.0370	0.0125	0.0247	IV
Atrazine	µg/l	12	0.060	0.065	0.092	0.060	0.077	II
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	0.000	1.362	5.400	0.230	5.400	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	0.897	5.400	0.110	2.800	
Faecal streptococci	1000CFU/100m	11	0.000	0.014	0.049	0.005	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
 Distance from the mouth 0
 Location: Right

Catchment: 817000 km2
 Altitude: 1 m
 2005
 RO08

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	490.0	2113.3	2790.0	2130.0	2710.0	
Temperature	°C	11	4.0	12.0	24.0	9.0	22.5	
Suspended solids	mg/l	12	10.0	62.0	207.0	53.0	123.5	
Dissolved oxygen	mg/l	12	6.5	8.7	12.1	8.1	6.8	II
BOD (5)	mg/l	12	0.5	1.9	3.1	2.1	2.7	I
COD (Mn)	mg/l	11	2.8	4.3	5.8	4.4	5.5	II
COD (Cr)	mg/l	11	23.6	29.7	39.7	25.7	39.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.6	8.1	7.7	8.1	II
							7.2	II
Alkalinity - total	mmol/l	12	2.3	3.0	3.6	3.0	3.5	
Ammonium (NH4-N)	mg/l	12	0.020	0.294	0.816	0.146	0.759	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.021	0.049	0.018	0.047	II
Nitrate (NO3-N)	mg/l	12	0.642	1.652	3.820	1.455	3.045	III
Total nitrogen	mg/l	12	0.89	2.35	4.72	2.25	3.68	II
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.065	0.239	0.047	0.131	III
Total phosphorus	mg/l	11	0.080	0.144	0.342	0.134	0.187	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	2.0	5.4	7.8			I
Conductivity	µS/cm	12	388	438	518	445	479	
Calcium (Ca++)	mg/l	12	40.1	51.0	64.1	49.3	58.1	
Sulphate (SO4--)	mg/l	11	24.6	36.9	56.1	37.6	45.3	
Magnesium (Mg++)	mg/l	12	14.5	22.7	30.6	21.9	29.0	
Potassium (K+)	mg/l	8	1.2	1.9	2.8	1.8		
Sodium (Na+)	mg/l	8	14.6	22.8	29.2	23.0		
Manganese (Mn)	mg/l	12	0.0280	0.0942	0.1470	0.1005	0.1334	
Iron (Fe)	mg/l	12	0.087	0.979	2.797	0.724	2.496	
Chloride (Cl-)	mg/l	12	27.5	31.2	41.3	28.3	40.6	
Silicates (SiO2)	mg/l	10	5.36	8.54	11.68	9.17		
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	10.00	23.75	56.00	18.00	39.90	II
Copper (Cu)	µg/l	12	0.64	8.36	27.54	6.38	15.26	II
Chromium (Cr) - total	µg/l	12	0.96	3.08	9.47	1.72	6.30	II
Lead (Pb)	µg/l	12	0.05	2.99	6.92	2.43	6.68	III
Cadmium (Cd)	µg/l	12	0.05	2.84	31.13	0.08	1.44	III
Mercury (Hg)	µg/l	11	0.025	0.029	0.053	0.025	0.042	II
Nickel (Ni)	µg/l	12	1.25	4.76	15.30	4.15	7.10	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	10	0.0050	0.0050	0.0050	0.0050		
Anionic active surfactants (PAL-A)	mg/l	11	0.025	0.103	0.166	0.108	0.161	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8 <	0.010	5.266	14.117	4.000		
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0089	0.0270	0.0050	0.0207	I
pp-DDT	µg/l	12	0.0100	0.0213	0.0580	0.0105	0.0503	V
Atrazine	µg/l	12	0.060	0.062	0.086	0.060	0.061	II
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	0.000	1.488	9.200	0.700	2.400	
Faecal coliforms (44 C)	1000CFU/100m	11	0.000	1.252	9.200	0.140	2.400	
Faecal streptococci	1000CFU/100m	11	0.000	0.026	0.170	0.002	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: /Arges
 Distance from the mouth 0
 Location: Middle

Catchment: 12550 km2
 Altitude: 14 m
 2005
 RO09

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	14.6	115.4	680.5	88.9	182.1	
Temperature	°C	12	3.1	12.8	26.9	10.3	26.2	
Suspended solids	mg/l	12	60.0	130.3	313.0	111.5	188.4	
Dissolved oxygen	mg/l	12	7.5	9.8	12.1	10.2	8.0	I
BOD (5)	mg/l	12	4.3	5.4	7.4	5.0	7.0	III
COD (Mn)	mg/l	12	5.7	7.4	9.8	7.0	9.5	II
COD (Cr)	mg/l	12	12.0	15.9	19.7	15.9	19.2	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	7.8	8.1	7.9	8.0	II
							7.6	II
Alkalinity - total	mmol/l	12	3.0	3.8	4.9	3.8	4.1	
Ammonium (NH4-N)	mg/l	12	0.600	1.211	2.430	1.070	1.655	V
Nitrite (NO2-N)	mg/l	12	0.027	0.039	0.048	0.039	0.046	II
Nitrate (NO3-N)	mg/l	12	1.114	1.880	2.820	1.850	2.422	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.060	0.094	0.190	0.090	0.109	III
Total phosphorus	mg/l	12	0.130	0.218	0.330	0.215	0.304	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	449	538	672	532	602	
Calcium (Ca++)	mg/l	12	67.2	79.3	99.2	77.6	86.2	
Sulphate (SO4--)	mg/l	12	92.6	103.2	119.0	101.5	112.6	
Magnesium (Mg++)	mg/l	12	19.2	22.1	26.0	21.9	25.1	
Potassium (K+)	mg/l	12	1.7	3.8	6.6	3.5	5.6	
Sodium (Na+)	mg/l	12	12.8	25.3	35.6	24.0	32.3	
Manganese (Mn)	mg/l	11	0.0920	0.3820	1.9950	0.2270	0.4070	
Iron (Fe)	mg/l	11	0.247	2.030	6.219	1.702	3.870	
Chloride (Cl-)	mg/l	12	21.3	42.0	60.4	39.1	53.3	
Silicates (SiO2)	mg/l	10	5.36	8.12	10.84	8.30		
Zinc (Zn), dissolved	µg/l	10	10.00	14.50	30.00	10.50		III
Copper (Cu), dissolved	µg/l	10	0.47	2.69	8.03	1.87		III
Chromium (Cr), total dissolved	µg/l	10	0.16	0.43	0.75	0.43		II
Lead (Pb), dissolved	µg/l	10	0.05	0.72	1.53	0.93		III
Cadmium (Cd), dissolved	µg/l	10	<	0.05	0.07	0.13	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	10	1.09	2.29	3.90	2.46		III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	10.00	73.82	271.00	48.00	160.00	III
Copper (Cu)	µg/l	11	1.84	13.56	35.11	4.88	27.83	III
Chromium (Cr) - total	µg/l	11	1.79	8.97	25.67	4.61	18.20	II
Lead (Pb)	µg/l	11	1.76	5.14	12.80	3.87	8.88	III
Cadmium (Cd)	µg/l	11	0.05	0.40	1.07	0.29	0.90	II
Mercury (Hg)	µg/l	1	0.025	0.025	0.025			II
Nickel (Ni)	µg/l	11	3.46	11.58	34.75	8.43	18.77	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	11	0.0050	0.0109	0.0700	0.0050	0.0050	
Anionic active surfactants (PAL-A)	mg/l	11	0.042	0.067	0.160	0.059	0.075	
AOX	µg/l							
Petroleum hydrocarbons	mg/l							
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0104	0.0310	0.0100	0.0147	I
pp-DDT	µg/l	12	0.0100	0.0223	0.0390	0.0225	0.0376	IV
Atrazine	µg/l	12	0.060	0.083	0.220	0.060	0.166	III
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	2	16.000	16.000	16.000			
Faecal coliforms (44 C)	1000CFU/100m	2	0.540	1.670	2.800			
Faecal streptococci	1000CFU/100m	2	0.023	0.142	0.260			
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
 Distance from the mouth 0
 Location: Middle

Catchment: 42890 km2
 Altitude: 4 m
 2005
 RO10

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	47.7	312.1	4650.0	184.0	574.3	
Temperature	°C	12	2.0	14.7	28.0	16.0	25.8	
Suspended solids	mg/l	12	9.0	242.0	762.0	204.0	504.0	
Dissolved oxygen	mg/l	12	6.5	8.3	12.0	7.7	6.5	II
BOD (5)	mg/l	12	2.2	3.1	5.7	3.1	3.8	II
COD (Mn)	mg/l	12	3.5	6.7	12.8	5.9	10.3	III
COD (Cr)	mg/l	11	20.2	44.7	73.6	41.7	62.1	IV
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	8.0	8.5	8.0	8.2	II
							7.5	II
Alkalinity - total	mmol/l	12	2.4	3.2	4.4	3.3	3.6	
Ammonium (NH4-N)	mg/l	12	0.194	0.812	1.840	0.640	1.705	V
Nitrite (NO2-N)	mg/l	12	0.020	0.066	0.261	0.051	0.078	III
Nitrate (NO3-N)	mg/l	12	0.977	1.935	4.370	1.680	2.777	II
Total nitrogen	mg/l	12	1.98	3.32	5.78	2.75	5.56	III
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.040	0.106	0.031	0.086	II
Total phosphorus	mg/l	12	0.074	0.339	0.979	0.252	0.913	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	1.4	6.0	14.0			I
Conductivity	µS/cm	12	410	643	851	671	764	
Calcium (Ca++)	mg/l	12	38.9	58.3	73.9	58.1	73.7	
Sulphate (SO4--)	mg/l	12	32.8	63.9	99.4	63.5	87.9	
Magnesium (Mg++)	mg/l	11	15.5	25.7	43.7	24.4	36.5	
Potassium (K+)	mg/l	7	2.5	3.4	5.6	2.8		
Sodium (Na+)	mg/l	7	30.2	61.7	79.0	70.2		
Manganese (Mn)	mg/l	12	0.0410	0.3650	0.8790	0.2905	0.8285	
Iron (Fe)	mg/l	12	0.171	1.430	4.729	0.790	3.140	
Chloride (Cl-)	mg/l	12	36.2	75.0	117.1	79.3	89.6	
Silicates (SiO2)	mg/l	11	4.99	7.64	10.72	7.34	9.86	
Zinc (Zn), dissolved	µg/l	11	10.00	14.36	33.00	10.00	21.00	III
Copper (Cu), dissolved	µg/l	11	0.93	3.68	6.27	3.68	5.43	III
Chromium (Cr), total dissolved	µg/l	11	0.09	0.64	1.88	0.50	1.17	II
Lead (Pb), dissolved	µg/l	11	0.05	1.66	10.01	0.72	3.42	III
Cadmium (Cd), dissolved	µg/l	11	<	0.05	0.30	0.05	0.13	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	11	0.05	1.96	6.84	1.27	3.20	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	26.00	48.50	74.00	47.00	72.90	II
Copper (Cu)	µg/l	12	3.80	11.51	19.81	10.30	19.66	II
Chromium (Cr) - total	µg/l	12	0.78	4.68	18.87	2.77	8.94	II
Lead (Pb)	µg/l	12	0.35	6.71	18.68	5.60	14.07	IV
Cadmium (Cd)	µg/l	12	0.05	1.18	7.17	0.59	2.27	IV
Mercury (Hg)	µg/l	11	0.025	0.035	0.059	0.030	0.053	II
Nickel (Ni)	µg/l	12	1.54	10.23	20.45	8.68	19.69	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0467	0.3800	0.0050		
Anionic active surfactants (PAL-A)	mg/l	9	0.025	0.133	0.315	0.109		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	<	0.010	2.127	11.764	1.170	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0083	0.0250	0.0065	0.0116	I
pp-DDT	µg/l	12	0.0100	0.0157	0.0290	0.0135	0.0270	IV
Atrazine	µg/l	12	0.060	0.066	0.118	0.060	0.072	II
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	0.060	8.473	24.000	9.200	17.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.040	3.084	13.000	1.300	13.000	
Faecal streptococci	1000CFU/100m	11	0.000	3.917	24.000	0.240	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: /Prut
 Distance from the mouth 0
 Location: Middle

Catchment: 27480 km2
 Altitude: 5 m
 2005
 RO11

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	365	41.7	117.8	475.5	97.0	179.0	
Temperature	°C	12	3.0	14.4	26.0	15.5	25.7	
Suspended solids	mg/l	12	15.0	163.1	686.0	64.5	583.5	
Dissolved oxygen	mg/l	12	5.8	8.1	12.5	7.8	6.0	II
BOD (5)	mg/l	12	1.0	2.6	4.6	2.5	3.8	II
COD (Mn)	mg/l	10	2.4	5.9	10.2	5.2		III
COD (Cr)	mg/l	10	29.1	43.6	54.8	44.5		IV
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.4	8.0	8.8	8.0	8.6	III
							7.6	II
Alkalinity - total	mmol/l	12	2.6	3.4	5.9	3.2	4.1	
Ammonium (NH4-N)	mg/l	12	0.118	0.669	1.320	0.661	1.186	IV
Nitrite (NO2-N)	mg/l	12	0.005	0.049	0.205	0.025	0.084	III
Nitrate (NO3-N)	mg/l	12	0.179	1.769	4.200	1.655	2.540	II
Total nitrogen	mg/l	12	1.06	2.92	4.92	2.53	4.74	III
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.037	0.094	0.038	0.055	II
Total phosphorus	mg/l	12	0.048	0.185	0.782	0.105	0.302	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	3	5.9	9.4	13.5			I
Conductivity	µS/cm	12	390	626	889	609	768	
Calcium (Ca++)	mg/l	12	46.6	59.7	96.2	56.1	71.8	
Sulphate (SO4--)	mg/l	12	31.2	69.4	125.4	72.8	111.0	
Magnesium (Mg++)	mg/l	11	16.5	26.0	31.6	28.4	31.6	
Potassium (K+)	mg/l	7	2.2	3.8	6.2	3.8		
Sodium (Na+)	mg/l	7	16.8	52.3	80.2	51.0		
Manganese (Mn)	mg/l	12	0.0240	0.1594	0.5810	0.1225	0.2070	
Iron (Fe)	mg/l	12	0.138	0.917	4.268	0.565	1.762	
Chloride (Cl-)	mg/l	12	28.9	69.0	105.4	62.6	102.7	
Silicates (SiO2)	mg/l	11	5.10	8.01	12.61	7.87	11.21	
Zinc (Zn), dissolved	µg/l	11	10.00	12.00	18.00	10.00	17.00	III
Copper (Cu), dissolved	µg/l	11	1.35	5.03	12.25	4.92	5.85	III
Chromium (Cr), total dissolved	µg/l	11	0.16	0.61	1.34	0.40	1.13	II
Lead (Pb), dissolved	µg/l	11	0.05	0.96	2.16	0.91	1.62	III
Cadmium (Cd), dissolved	µg/l	11	<	0.05	0.08	0.31	0.05	III
Mercury (Hg), dissolved	µg/l							
Nickel (Ni), dissolved	µg/l	11	0.94	1.80	3.23	1.92	2.67	III
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	10.00	47.42	172.00	36.00	76.40	II
Copper (Cu)	µg/l	12	5.27	15.57	28.84	15.38	24.57	III
Chromium (Cr) - total	µg/l	12	0.81	4.30	15.08	3.34	9.35	II
Lead (Pb)	µg/l	12	0.05	5.98	16.68	4.34	9.58	III
Cadmium (Cd)	µg/l	12	0.05	0.80	6.31	0.25	0.95	II
Mercury (Hg)	µg/l	11	0.025	0.034	0.079	0.025	0.056	II
Nickel (Ni)	µg/l	12	1.98	7.64	19.16	6.08	12.64	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	9	0.0050	0.0489	0.4000	0.0050		
Anionic active surfactants (PAL-A)	mg/l	9	0.025	0.133	0.302	0.102		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	9	<	0.010	2.989	9.411	0.941	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	12	0.0050	0.0096	0.0390	0.0060	0.0109	I
pp-DDT	µg/l	12	0.0100	0.0193	0.0550	0.0130	0.0340	IV
Atrazine	µg/l	12	0.060	0.079	0.250	0.060	0.089	II
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	0.330	8.139	16.000	7.000	16.000	
Faecal coliforms (44 C)	1000CFU/100m	11	0.092	4.414	16.000	1.400	16.000	
Faecal streptococci	1000CFU/100m	11	0.000	2.694	9.200	0.170	9.200	
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: 580100 km2	2005
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	11	2.1	13.7	24.6	14.3	24.1		
Suspended solids	mg/l								
Dissolved oxygen	mg/l	11	6.9	8.6	11.4	8.6	6.9	II	
BOD (5)	mg/l	11	1.4	2.8	4.6	2.7	3.9	II	
COD (Mn)	mg/l	11	1.9	3.5	5.1	3.4	4.5	I	
COD (Cr)	mg/l	11	7.9	12.8	18.7	12.9	16.8	II	
TOC	mg/l								
DOC	mg/l								
pH	-	11	7.6	7.9	8.3	7.8	8.3	II	
							7.7	II	
Alkalinity - total	mmol/l	11	2.9	3.2	3.7	3.1	3.7		
Ammonium (NH4-N)	mg/l	11	0.098	0.219	0.571	0.163	0.322	III	
Nitrite (NO2-N)	mg/l	11	0.017	0.034	0.079	0.027	0.064	III	
Nitrate (NO3-N)	mg/l	11	0.753	1.437	4.699	1.144	1.971	II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	11	0.026	0.070	0.108	0.069	0.091	II	
Total phosphorus	mg/l	11	0.085	0.151	0.275	0.139	0.249	III	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	11	3.3	12.3	50.6	7.3	17.5	I	
Conductivity	µS/cm	11	370	412	492	393	474		
Calcium (Ca++)	mg/l	11	40.1	50.5	58.1	52.1	56.1		
Sulphate (SO4--)	mg/l	11	35.2	41.0	50.2	41.3	47.4		
Magnesium (Mg++)	mg/l	11	10.9	15.7	23.1	14.6	19.5		
Potassium (K+)	mg/l	11	1.9	2.5	3.3	2.4	3.1		
Sodium (Na+)	mg/l	11	10.5	13.7	19.1	13.4	17.9		
Manganese (Mn)	mg/l	11	0.0010	0.0115	0.0390	0.0110	0.0120		
Iron (Fe)	mg/l	11	0.046	0.147	0.324	0.124	0.262		
Chloride (Cl-)	mg/l	11	14.3	21.2	28.6	20.6	24.1		
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	11	<	1.00	20.27	34.00	19.00	33.00	II
Copper (Cu)	µg/l	11		6.00	8.73	11.00	9.00	10.00	II
Chromium (Cr) - total	µg/l	11	<	10.00	<	10.00	<	10.00	II
Lead (Pb)	µg/l	11	<	1.00	1.36	5.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11	<	1.00	<	1.00	<	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	11	<	1.00	8.18	30.00	6.00	13.00	II
Arsenic (As)	µg/l	11		1.50	2.24	3.20	2.00	3.10	II
Aluminium (Al)	µg/l								
Phenol index	mg/l	11		0.0020	0.0030	0.0090	0.0020	0.0040	
Anionic active surfactants (PAL-A)	mg/l	11	<	0.050	0.089	0.474	0.050	0.050	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	11	<	0.100	0.127	0.200	0.100	0.200	
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l								
pp-DDT	µg/l	11		0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	<	0.010	0.045	0.140	0.020	0.130	III
Chloroform	µg/l	8	<	0.02	0.18	0.70	0.02		III
Carbon tetrachloride	µg/l	1	<	0.02	<	0.02	<	0.02	I
Trichloroethylene	µg/l	4	<	0.02	<	0.02	<	0.02	I
Tetrachloroethylene	µg/l	4	<	0.02	<	0.02	<	0.02	I
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	11		0.050	2.479	7.800	1.010	6.500	
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	11		0.000	0.027	0.060	0.030	0.050	
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: 580100 km2	2005
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	11	2.1	13.4	24.0	14.8	23.8		
Suspended solids	mg/l								
Dissolved oxygen	mg/l	11	5.6	8.4	11.3	7.8	6.6	II	
BOD (5)	mg/l	11	2.0	2.9	4.4	3.0	4.1	II	
COD (Mn)	mg/l	11	2.4	3.5	5.0	3.5	4.7	I	
COD (Cr)	mg/l	11	9.2	13.2	17.5	13.3	16.6	II	
TOC	mg/l								
DOC	mg/l								
pH	-	11	7.4	7.9	8.3	7.8	8.2	II	
							7.6	II	
Alkalinity - total	mmol/l	11	3.0	3.2	3.8	3.2	3.7		
Ammonium (NH4-N)	mg/l	11	0.129	0.220	0.549	0.160	0.330	III	
Nitrite (NO2-N)	mg/l	11	0.015	0.033	0.073	0.026	0.064	III	
Nitrate (NO3-N)	mg/l	11	0.751	1.411	4.612	1.086	2.023	II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	11	0.050	0.082	0.160	0.074	0.113	III	
Total phosphorus	mg/l	11	0.084	0.148	0.236	0.141	0.195	II	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	11	1.5	10.4	20.7	11.5	17.8	I	
Conductivity	µS/cm	11	370	412	493	389	475		
Calcium (Ca++)	mg/l	11	44.2	53.2	70.1	50.1	60.1		
Sulphate (SO4--)	mg/l	11	35.1	40.9	49.8	40.7	47.9		
Magnesium (Mg++)	mg/l	11	12.2	15.6	20.6	15.8	18.2		
Potassium (K+)	mg/l	11	1.8	2.4	3.4	2.5	2.9		
Sodium (Na+)	mg/l	11	10.4	13.8	20.2	13.0	17.8		
Manganese (Mn)	mg/l	11	0.0010	0.0097	0.0230	0.0090	0.0120		
Iron (Fe)	mg/l	11	0.045	0.166	0.363	0.118	0.281		
Chloride (Cl-)	mg/l	11	14.3	22.2	29.3	23.0	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	11	<	1.00	19.45	35.00	18.00	33.00	II
Copper (Cu)	µg/l	11		6.00	8.82	12.00	9.00	12.00	II
Chromium (Cr) - total	µg/l	11	<	10.00	<	10.00	<	10.00	II
Lead (Pb)	µg/l	11	<	1.00	1.64	8.00	1.00	1.00	II
Cadmium (Cd)	µg/l	11	<	1.00	<	1.00	<	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	11	<	1.00	4.91	10.00	5.00	8.00	II
Arsenic (As)	µg/l	11		1.30	2.15	3.20	2.00	2.90	II
Aluminium (Al)	µg/l								
Phenol index	mg/l	11		0.0020	0.0043	0.0120	0.0040	0.0060	
Anionic active surfactants (PAL-A)	mg/l	11	<	0.050	0.127	0.875	0.050	0.063	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	11		0.100	0.200	0.400	0.200	0.200	
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l								
pp-DDT	µg/l	11		0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	11	<	0.010	0.039	0.120	0.030	0.080	II
Chloroform	µg/l	7	<	0.02	0.64	4.30	0.02		V
Carbon tetrachloride	µg/l	1	<	0.02	<	0.02	<	0.02	I
Trichloroethylene	µg/l	4	<	0.02	<	0.02	<	0.02	I
Tetrachloroethylene	µg/l	4	<	0.02	<	0.02	<	0.02	I
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	11		0.230	3.150	9.800	1.000	7.000	
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	11		0.000	0.019	0.040	0.010	0.030	
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: 580100 km2	2005
Distance from the mouth 834	Altitude: 35 m	BG01
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class	
Flow	m3/s								
Temperature	°C	12	1.5	12.5	24.2	13.4	23.3		
Suspended solids	mg/l								
Dissolved oxygen	mg/l	12	5.9	8.8	12.6	9.0	6.5	II	
BOD (5)	mg/l	12	2.0	2.8	3.9	2.6	3.4	II	
COD (Mn)	mg/l	12	2.8	3.4	4.6	3.3	4.2	I	
COD (Cr)	mg/l	12	9.9	14.0	20.8	13.9	16.6	II	
TOC	mg/l								
DOC	mg/l								
pH	-	12	7.6	7.9	8.3	7.8	8.3	II	
							7.6	II	
Alkalinity - total	mmol/l	12	3.0	3.3	3.9	3.2	3.8		
Ammonium (NH4-N)	mg/l	12	0.111	0.207	0.623	0.146	0.341	III	
Nitrite (NO2-N)	mg/l	12	0.015	0.032	0.069	0.028	0.059	II	
Nitrate (NO3-N)	mg/l	12	0.642	1.410	4.621	1.061	2.017	II	
Total nitrogen	mg/l								
Organic nitrogen	mg/l								
Orthophosphate (PO4-P)	mg/l	12	0.051	0.120	0.321	0.082	0.247	IV	
Total phosphorus	mg/l	12	0.087	0.210	0.486	0.186	0.313	III	
Total phosphorus, dissolved	mg/l								
Chlorophyll A	µg/l	12	1.2	10.4	24.3	9.2	18.3	I	
Conductivity	µS/cm	12	375	426	504	398	498		
Calcium (Ca++)	mg/l	12	42.1	52.3	64.1	51.1	59.7		
Sulphate (SO4--)	mg/l	12	38.3	45.3	53.4	44.4	52.5		
Magnesium (Mg++)	mg/l	12	12.2	16.9	26.8	17.0	19.4		
Potassium (K+)	mg/l	12	1.8	2.5	3.1	2.4	3.0		
Sodium (Na+)	mg/l	12	10.2	13.8	19.0	13.4	17.3		
Manganese (Mn)	mg/l	12	0.0070	0.0143	0.0280	0.0145	0.0188		
Iron (Fe)	mg/l	12	0.054	0.206	0.616	0.153	0.358		
Chloride (Cl-)	mg/l	12	16.2	22.5	27.1	23.8	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	12	<	1.00	22.00	46.00	16.50	44.20	II
Copper (Cu)	µg/l	12		9.00	17.50	47.00	11.50	31.40	III
Chromium (Cr) - total	µg/l	12	<	10.00	<	10.00	<	10.00	II
Lead (Pb)	µg/l	12	<	1.00	1.83	7.00	1.00	4.60	II
Cadmium (Cd)	µg/l	12	<	1.00	<	1.00	<	1.00	II
Mercury (Hg)	µg/l								
Nickel (Ni)	µg/l	12	<	1.00	4.92	12.00	5.00	8.00	II
Arsenic (As)	µg/l	12		1.40	2.20	3.10	2.10	2.99	II
Aluminium (Al)	µg/l								
Phenol index	mg/l	12		0.0020	0.0041	0.0100	0.0035	0.0078	
Anionic active surfactants (PAL-A)	mg/l	12	<	0.050	0.101	0.592	0.050	0.078	
AOX	µg/l								
Petroleum hydrocarbons	mg/l	12		0.100	0.300	1.100	0.200	0.400	
PAHs (Borneff 6)	µg/l								
PCBs (7 congeners)	µg/l								
Lindane (gama-HCH)	µg/l								
pp-DDT	µg/l	12		0.0100	0.0100	0.0100	0.0100	0.0100	II
Atrazine	µg/l	12	<	0.010	0.039	0.130	0.025	0.079	II
Chloroform	µg/l	7	<	0.02	0.26	1.60	0.02		IV
Carbon tetrachloride	µg/l								
Trichloroethylene	µg/l	4	<	0.02	<	0.02	<	0.02	I
Tetrachloroethylene	µg/l	4	<	0.02	<	0.02	<	0.02	I
Macrozoobenthos sapr. index	-								
Macrozoobenthos no. of taxa	-								
Total coliforms (37 C)	1000CFU/100m	12		0.010	1.287	8.300	0.700	1.905	
Faecal coliforms (44 C)	1000CFU/100m								
Faecal streptococci	1000CFU/100m	12		0.000	0.038	0.180	0.020	0.068	
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	2005
Distance from the mouth 641	Altitude: 20 m	BG02
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	3.0	14.9	27.6	13.4	24.0	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	2.6	5.7	9.3	5.6	2.7	V
BOD (5)	mg/l	11	3.4	6.3	13.7	5.9	8.2	III
COD (Mn)	mg/l	11	4.2	12.1	27.8	11.8	16.2	III
COD (Cr)	mg/l	11	10.0	20.1	41.6	18.3	30.4	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.8	8.0	7.9	8.0	II
							7.5	II
Alkalinity - total	mmol/l	11	2.4	4.5	7.2	3.9	6.8	
Ammonium (NH4-N)	mg/l	12	0.050	0.288	0.500	0.300	0.400	III
Nitrite (NO2-N)	mg/l	12	0.011	0.022	0.040	0.021	0.032	II
Nitrate (NO3-N)	mg/l	12	0.200	0.829	2.200	0.650	1.480	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.040	0.068	0.090	0.070	0.080	II
Total phosphorus	mg/l	12	0.060	0.130	0.200	0.100	0.200	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	11	< 0.1	3081.8	7400.0	2400.0	5900.0	V
Conductivity	µS/cm	12	286	450	616	423	594	
Calcium (Ca++)	mg/l	12	48.8	55.8	62.9	55.1	61.1	
Sulphate (SO4--)	mg/l	12	4.5	24.7	43.2	24.9	37.5	
Magnesium (Mg++)	mg/l	12	5.7	13.5	22.1	12.7	21.6	
Potassium (K+)	mg/l	12	2.4	2.8	3.7	2.7	3.2	
Sodium (Na+)	mg/l	12	12.2	14.6	21.9	13.4	18.6	
Manganese (Mn)	mg/l	12	0.0010	0.0045	0.0125	0.0040	0.0077	
Iron (Fe)	mg/l	12	< 0.010	0.048	0.108	0.044	0.083	
Chloride (Cl-)	mg/l	12	11.9	20.1	27.9	20.1	26.4	
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	12	7.00	29.73	85.80	23.00	49.00	II
Copper (Cu)	µg/l	12	< 1.00	5.16	8.00	5.50	7.45	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	2.77	6.40	1.50	5.98	III
Cadmium (Cd)	µg/l	12	< 1.00	1.83	4.00	1.00	3.00	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12	< 1.00	1.83	6.00	1.00	4.70	II
Arsenic (As)	µg/l	12	1.70	2.69	3.80	2.50	3.76	II
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0020	0.0020	0.0020	0.0020	0.0020	
Anionic active surfactants (PAL-A)	mg/l	12	< 0.050	0.058	0.100	0.050	0.095	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	5	< 0.100	< 0.100	< 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							
Chloroform	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	9	< 0.02	< 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	2005
Distance from the mouth 554	Altitude: 16 m	BG03
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.2	13.5	25.0	14.5	24.7	
Suspended solids	mg/l	12	16.0	73.5	312.0	48.0	101.2	
Dissolved oxygen	mg/l	12	7.1	9.7	12.2	9.7	7.4	I
BOD (5)	mg/l	12	1.7	2.6	3.9	2.4	3.4	II
COD (Mn)	mg/l	12	3.4	4.5	6.7	4.6	5.1	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.7	8.1	8.2	8.1	8.2	II
							8.0	II
Alkalinity - total	mmol/l	12	0.5	2.7	3.4	3.0	3.4	
Ammonium (NH4-N)	mg/l	10 <	0.050	0.117	0.390	0.100		III
Nitrite (NO2-N)	mg/l	12	0.013	0.029	0.054	0.030	0.042	II
Nitrate (NO3-N)	mg/l	12	1.080	1.466	1.900	1.480	1.870	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.030	0.177	0.260	0.185	0.250	IV
Total phosphorus	mg/l	12	0.100	0.310	0.540	0.305	0.449	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	341	393	460	384	443	
Calcium (Ca++)	mg/l	12	35.3	67.9	135.0	55.7	125.4	
Sulphate (SO4--)	mg/l	12	23.2	38.7	82.0	35.6	50.0	
Magnesium (Mg++)	mg/l	12	4.9	18.2	29.9	19.0	27.6	
Potassium (K+)	mg/l	12	2.4	3.1	4.0	3.0	3.8	
Sodium (Na+)	mg/l	12	10.8	14.8	20.4	15.0	17.6	
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	12	5.00	50.58	260.00	32.50	69.60	II
Copper (Cu)	µg/l	12 <	1.00	7.58	15.00	6.00	13.70	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	12 <	1.00	4.00	11.00	3.00	7.80	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 <	1.00 <	1.00	1.00	1.00	II
Arsenic (As)	µg/l	12	1.00	2.42	4.00	2.00	3.90	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							
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: 669900 km2	2005
Distance from the mouth 503	Altitude: 12 m	BG04
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	3.8	13.6	24.4	13.5	22.9	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	5.0	8.6	12.4	8.6	5.5	III
BOD (5)	mg/l	12	1.4	2.5	5.3	2.2	3.9	II
COD (Mn)	mg/l	12	3.5	4.9	9.6	4.5	5.2	II
COD (Cr)	mg/l	12	11.0	14.7	30.0	13.0	17.9	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.7	8.0	8.2	8.0	8.1	II
							7.9	II
Alkalinity - total	mmol/l	12	2.7	3.2	4.1	3.1	3.8	
Ammonium (NH4-N)	mg/l	14 <	0.050	0.088	0.220	0.082	0.132	I
Nitrite (NO2-N)	mg/l	12	0.005	0.021	0.051	0.021	0.030	II
Nitrate (NO3-N)	mg/l	12	1.200	1.578	1.970	1.600	1.833	II
Total nitrogen	mg/l	12	1.45	2.76	3.87	2.66	3.48	II
Organic nitrogen	mg/l	12 <	1.00	1.24	1.95	1.09	1.54	
Orthophosphate (PO4-P)	mg/l	12	0.020	0.058	0.096	0.055	0.081	II
Total phosphorus	mg/l	12	0.116	0.174	0.302	0.163	0.227	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.5	9.0	20.6	4.4	20.3	I
Conductivity	µS/cm	12	268	341	437	339	394	
Calcium (Ca++)	mg/l	12	48.9	56.1	64.1	55.2	63.7	
Sulphate (SO4--)	mg/l	12	30.3	36.7	48.4	34.6	42.3	
Magnesium (Mg++)	mg/l	12	9.5	14.7	26.6	13.3	20.1	
Potassium (K+)	mg/l	12	2.4	2.8	3.2	2.7	3.0	
Sodium (Na+)	mg/l	12	11.1	14.3	18.4	14.0	17.4	
Manganese (Mn)	mg/l	12	0.0010	0.0519	0.1670	0.0425	0.0827	
Iron (Fe)	mg/l	12	0.283	0.812	2.430	0.564	1.127	
Chloride (Cl-)	mg/l	12	15.9	21.3	26.6	21.3	24.0	
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	12 <	1.00	14.25	43.00	14.00	25.50	II
Copper (Cu)	µg/l	12 <	1.00	8.67	58.00	1.00	21.30	III
Chromium (Cr) - total	µg/l	3 <	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 <	1.00 <	1.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	12 <	20.00	132.83	373.00	85.00	337.30	
Phenol index	mg/l	9	0.0020	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							
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	0.700	26.416	160.000	2.200	77.500	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.010	0.061	0.130	0.055	0.110	
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	2005
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	10	5.4	15.7	26.1	15.8		
Suspended solids	mg/l							
Dissolved oxygen	mg/l	10	5.4	8.5	14.7	7.9		III
BOD (5)	mg/l	10	2.1	2.7	4.5	2.6		II
COD (Mn)	mg/l	10	3.1	4.4	6.0	4.1		II
COD (Cr)	mg/l	10	11.0	13.7	19.0	13.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.9	8.0	8.1	8.0		II
Alkalinity - total	mmol/l	10	2.6	3.1	3.8	2.9		II
Ammonium (NH4-N)	mg/l	10	0.056	0.111	0.282	0.079		II
Nitrite (NO2-N)	mg/l	10	0.007	0.025	0.054	0.023		II
Nitrate (NO3-N)	mg/l	10	1.010	1.297	2.020	1.235		II
Total nitrogen	mg/l	10	1.83	2.43	3.87	2.23		II
Organic nitrogen	mg/l	10 <	1.00	1.16	1.76	1.00		
Orthophosphate (PO4-P)	mg/l	10 <	0.020	0.052	0.088	0.053		II
Total phosphorus	mg/l	10	0.123	0.172	0.307	0.149		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	10	2.2	8.5	18.4	8.0		I
Conductivity	µS/cm	10	276	371	542	369		
Calcium (Ca++)	mg/l	10	48.6	57.2	67.3	55.9		
Sulphate (SO4--)	mg/l	10	30.6	36.2	43.4	35.1		
Magnesium (Mg++)	mg/l	10	8.5	12.1	17.2	11.8		
Potassium (K+)	mg/l	10	2.3	2.9	3.3	3.0		
Sodium (Na+)	mg/l	10	12.8	16.8	23.4	16.1		
Manganese (Mn)	mg/l	10	0.0300	0.0797	0.1660	0.0660		
Iron (Fe)	mg/l	10	0.313	1.098	2.110	0.865		
Chloride (Cl-)	mg/l	10	15.9	24.1	35.4	23.4		
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	10 <	1.00	21.90	64.00	19.00		II
Copper (Cu)	µg/l	10 <	1.00	2.40	15.00	1.00		II
Chromium (Cr) - total	µg/l	3 <	10.00 <	10.00 <	10.00			II
Lead (Pb)	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Cadmium (Cd)	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10 <	1.00	4.20	33.00	1.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	10	42.00	170.40	537.00	113.00		
Phenol index	mg/l	7	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	10 <	0.050 <	0.050 :	0.050	0.050		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1 <	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	10	0.430	80.848	570.000	26.500		
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	10	0.020	0.190	0.420	0.155		
Salmonella	No/1l	10	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	2005
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	10	5.2	15.6	26.5	15.5		
Suspended solids	mg/l							
Dissolved oxygen	mg/l	10	5.3	8.5	14.6	8.1		III
BOD (5)	mg/l	10	2.1	2.8	5.1	2.6		III
COD (Mn)	mg/l	10	3.4	4.1	5.6	4.1		II
COD (Cr)	mg/l	10	11.0	12.6	17.0	12.0		II
TOC	mg/l							
DOC	mg/l							
pH	-	10	7.9	8.0	8.2	8.0		II
Alkalinity - total	mmol/l	10	2.6	3.1	3.8	2.8		II
Ammonium (NH4-N)	mg/l	10 <	0.050	0.067	0.114	0.051		I
Nitrite (NO2-N)	mg/l	10	0.003	0.018	0.039	0.014		II
Nitrate (NO3-N)	mg/l	10	1.210	1.419	2.050	1.310		II
Total nitrogen	mg/l	10	1.76	2.44	3.87	2.39		II
Organic nitrogen	mg/l	10 <	1.00	1.13	1.74	1.00		
Orthophosphate (PO4-P)	mg/l	10 <	0.020	0.050	0.080	0.052		II
Total phosphorus	mg/l	10	0.108	0.143	0.179	0.140		II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	10	2.0	7.4	17.6	6.4		I
Conductivity	µS/cm	10	276	356	461	359		
Calcium (Ca++)	mg/l	10	44.1	56.7	66.3	55.5		
Sulphate (SO4--)	mg/l	10	28.3	35.0	42.8	33.3		
Magnesium (Mg++)	mg/l	10	9.8	12.6	18.4	12.3		
Potassium (K+)	mg/l	10	2.3	2.7	3.1	2.7		
Sodium (Na+)	mg/l	10	11.2	14.8	20.0	14.2		
Manganese (Mn)	mg/l	10	0.0220	0.0562	0.1340	0.0485		
Iron (Fe)	mg/l	10	0.383	0.854	2.150	0.646		
Chloride (Cl-)	mg/l	10	14.2	23.0	33.3	22.6		
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	10 <	1.00	16.50	34.00	15.00		II
Copper (Cu)	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Chromium (Cr) - total	µg/l	3 <	10.00 <	10.00 <	10.00			II
Lead (Pb)	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Cadmium (Cd)	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	10 <	1.00 <	1.00 <	1.00	1.00		II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	10 <	20.00	115.10	476.00	76.50		
Phenol index	mg/l	7	0.0020	0.0020	0.0020	0.0020		
Anionic active surfactants (PAL-A)	mg/l	10 <	0.050 <	0.050 :	0.050	0.050		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	1 <	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	10	0.570	52.781	220.000	27.000		
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	10	0.020	0.121	0.250	0.105		
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	2005
Distance from the mouth 375	Altitude: 7 m	BG05
Location: Right		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	2.5	13.4	26.1	12.2	24.4	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	5.2	8.8	13.1	8.6	5.9	III
BOD (5)	mg/l	12	2.1	2.9	4.6	2.7	3.6	II
COD (Mn)	mg/l	12	3.5	4.4	5.6	4.4	5.3	II
COD (Cr)	mg/l	12	12.0	13.3	17.0	12.5	16.7	II
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.9	8.1	8.2	8.0	8.2	II
							8.0	II
Alkalinity - total	mmol/l	12	2.6	3.1	3.9	2.9	3.7	
Ammonium (NH4-N)	mg/l	12 <	0.050	0.078	0.171	0.061	0.136	I
Nitrite (NO2-N)	mg/l	12	0.004	0.016	0.033	0.016	0.031	II
Nitrate (NO3-N)	mg/l	12	1.210	1.574	2.250	1.505	2.028	II
Total nitrogen	mg/l	12	1.61	2.70	3.84	2.64	3.73	II
Organic nitrogen	mg/l	12 <	1.00	1.22	1.71	1.00	1.54	
Orthophosphate (PO4-P)	mg/l	12	0.020	0.059	0.100	0.052	0.096	II
Total phosphorus	mg/l	12	0.101	0.149	0.273	0.143	0.164	II
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	1.7	6.3	18.0	2.8	13.8	I
Conductivity	µS/cm	12	254	339	441	353	394	
Calcium (Ca++)	mg/l	12	50.2	59.0	68.0	61.2	66.1	
Sulphate (SO4--)	mg/l	12	23.2	34.7	43.2	33.9	41.5	
Magnesium (Mg++)	mg/l	12	7.3	12.4	16.4	12.2	15.4	
Potassium (K+)	mg/l	12	2.3	2.7	3.1	2.7	2.9	
Sodium (Na+)	mg/l	12	11.0	14.0	21.3	13.6	16.1	
Manganese (Mn)	mg/l	12	0.0010	0.0519	0.1300	0.0490	0.0794	
Iron (Fe)	mg/l	12	0.285	0.820	1.560	0.764	1.233	
Chloride (Cl-)	mg/l	11	14.2	22.8	30.8	22.0	28.4	
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	12 <	1.00	21.50	54.00	20.00	38.60	II
Copper (Cu)	µg/l	12 <	1.00 <	1.00 <	1.00 <	1.00	1.00	II
Chromium (Cr) - total	µg/l	3 <	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 <	1.00 <	1.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	12 <	20.00	67.67	163.00	61.00	106.80	
Phenol index	mg/l	9	0.0020	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	1 <	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	0.350	67.062	620.000	16.900	55.590	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.040	0.241	0.930	0.140	0.526	
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: /Jantra	Catchment: 6860 km2	2005
Distance from the mouth 12	Altitude: 32 m	BG07
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	0.5	12.7	26.0	13.5	20.9	
Suspended solids	mg/l	12	6.0	81.0	530.0	40.0	86.4	
Dissolved oxygen	mg/l	12	7.8	9.9	12.2	10.3	8.1	I
BOD (5)	mg/l	12	2.1	3.3	5.3	3.1	3.9	II
COD (Mn)	mg/l	12	3.4	5.7	7.5	6.0	6.7	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.6	8.0	8.3	8.1	8.2	II
							7.7	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	12 <	0.050	0.123	0.430	0.090	0.264	II
Nitrite (NO2-N)	mg/l	12	0.023	0.036	0.046	0.038	0.043	II
Nitrate (NO3-N)	mg/l	12	1.020	1.825	3.640	1.650	2.505	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.020	0.156	0.300	0.145	0.273	IV
Total phosphorus	mg/l	11	0.110	0.396	0.980	0.320	0.680	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm	12	330	419	530	426	486	
Calcium (Ca++)	mg/l							
Sulphate (SO4--)	mg/l	12	22.5	34.6	66.0	33.2	41.4	
Magnesium (Mg++)	mg/l	12	5.4	16.5	43.0	13.6	23.2	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l							
Manganese (Mn)	mg/l	12	0.0010	0.0203	0.0700	0.0200	0.0390	
Iron (Fe)	mg/l	12	0.130	1.027	5.500	0.635	1.640	
Chloride (Cl-)	mg/l	12 <	10.0	14.2	35.5	12.8	16.8	
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	12 <	1.00	3.58	9.00	2.50	6.90	II
Copper (Cu)	µg/l	12 <	1.00	4.83	14.00	4.00	7.00	II
Chromium (Cr) - total	µg/l							
Lead (Pb)	µg/l	12 <	1.00	3.58	9.00	2.50	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	2.33	6.00	1.00	5.00	II
Arsenic (As)	µg/l	12 <	0.30	1.08	3.00	1.00	1.90	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							
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: /Russenski Lom	Catchment: 2800 km2	2005
Distance from the mouth 13	Altitude: 22 m	BG08
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	12	2.8	13.4	22.6	13.2	22.0	
Suspended solids	mg/l							
Dissolved oxygen	mg/l	12	5.4	8.5	12.0	8.3	5.9	III
BOD (5)	mg/l	12	5.1	8.8	16.4	8.4	12.2	IV
COD (Mn)	mg/l	12	6.2	11.9	21.0	12.1	15.0	III
COD (Cr)	mg/l	12	21.0	36.2	61.0	35.5	49.5	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.8	8.2	8.3	8.2	8.3	II
							8.1	II
Alkalinity - total	mmol/l	12	5.7	6.6	7.5	6.6	7.4	
Ammonium (NH4-N)	mg/l	12	0.052	0.105	0.189	0.109	0.170	I
Nitrite (NO2-N)	mg/l	12	0.023	0.045	0.070	0.045	0.064	III
Nitrate (NO3-N)	mg/l	12	5.370	6.952	8.590	7.235	8.260	IV
Total nitrogen	mg/l	12	7.47	9.10	10.60	9.33	10.17	IV
Organic nitrogen	mg/l	12	1.04	2.00	2.92	2.27	2.77	
Orthophosphate (PO4-P)	mg/l	12	0.080	0.169	0.259	0.166	0.254	IV
Total phosphorus	mg/l	12	0.296	0.589	1.590	0.498	0.866	IV
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l	12	3.8	15.0	25.2	15.7	24.8	I
Conductivity	µS/cm	12	480	629	887	642	718	
Calcium (Ca++)	mg/l	12	78.8	90.6	110.0	89.2	94.1	
Sulphate (SO4--)	mg/l	12	43.6	51.7	59.5	51.1	59.2	
Magnesium (Mg++)	mg/l	12	30.6	40.4	60.7	39.1	48.2	
Potassium (K+)	mg/l	12	5.2	6.2	7.1	6.2	6.9	
Sodium (Na+)	mg/l	12	19.7	24.8	33.0	24.5	26.8	
Manganese (Mn)	mg/l	12	0.0620	0.2090	0.4060	0.1890	0.3325	
Iron (Fe)	mg/l	12	0.573	2.762	8.090	2.480	4.530	
Chloride (Cl-)	mg/l	12	21.3	28.7	36.5	29.1	34.4	
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	12	< 1.00	31.00	69.00	30.00	50.60	II
Copper (Cu)	µg/l	12	< 1.00	2.75	22.00	1.00	1.00	II
Chromium (Cr) - total	µg/l	3	< 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	< 1.00	< 1.00	1.00	1.00	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l	12	< 20.00	85.92	152.00	96.00	132.90	
Phenol index	mg/l	9	0.0020	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							
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	0.025	0.067	0.018	0.049	II
Chloroform	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Carbon tetrachloride	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Trichloroethylene	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Tetrachloroethylene	µg/l	12	< 0.02	< 0.02	< 0.02	0.02	0.02	I
Macrozoobenthos sapr. index	-							
Macrozoobenthos no. of taxa	-							
Total coliforms (37 C)	1000CFU/100m	12	0.740	41.099	220.000	2.600	112.600	
Faecal coliforms (44 C)	1000CFU/100m							
Faecal streptococci	1000CFU/100m	12	0.030	0.116	0.410	0.073	0.257	
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

2005

Distance from the mouth 658

Altitude: 100 m

MD01

Location: Left

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	11	28.0	119.7	801.0	45.8	81.6	
Temperature	°C	11	0.4	11.5	21.0	12.2	20.4	
Suspended solids	mg/l	11	< 1.0	242.9	2110.0	50.0	160.0	
Dissolved oxygen	mg/l	11	5.6	7.2	9.2	7.3	5.7	III
BOD (5)	mg/l	11	1.5	2.7	4.0	2.7	4.0	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	11	< 10.0	15.6	24.6	14.7	22.4	II
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.3	7.8	8.6	7.7	8.3	II
							7.5	II
Alkalinity - total	mmol/l	11	1.8	3.0	3.5	3.0	3.5	
Ammonium (NH4-N)	mg/l	11	< 0.020	0.261	0.520	0.260	0.480	III
Nitrite (NO2-N)	mg/l	11	0.017	0.044	0.180	0.028	0.053	II
Nitrate (NO3-N)	mg/l	11	0.100	0.890	2.550	0.620	1.720	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	< 0.005	0.010	0.025	0.006	0.018	I
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	11	0.006	0.025	0.054	0.022	0.052	
Chlorophyll A	µg/l	4	1.2	2.1	3.6	1.8		I
Conductivity	µS/cm	11	370	527	720	495	680	
Calcium (Ca++)	mg/l	11	38.5	66.3	96.2	65.3	92.6	
Sulphate (SO4--)	mg/l	11	52.5	76.0	134.0	60.5	101.0	
Magnesium (Mg++)	mg/l	11	6.9	11.4	18.1	9.6	15.8	
Potassium (K+)	mg/l	11	2.8	4.7	5.6	5.2	5.6	
Sodium (Na+)	mg/l	11	16.0	25.7	40.0	27.0	32.4	
Manganese (Mn)	mg/l	11	0.0250	0.1047	0.2830	0.0880	0.2140	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	11	14.2	30.3	46.1	28.4	42.6	
Silicates (SiO2)	mg/l							
Zinc (Zn), dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	II
Copper (Cu), dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Chromium (Cr), total dissolved	µg/l							
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							
Nickel (Ni), dissolved	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	**
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	11	9.52	27.81	47.37	30.52	40.54	II
Copper (Cu)	µg/l	11	< 3.00	4.67	10.20	3.11	8.66	II
Chromium (Cr) - total	µg/l	11	< 3.00	8.07	27.20	4.00	18.90	II
Lead (Pb)	µg/l	11	< 3.00	< 3.00	< 3.00	3.00	3.00	II
Cadmium (Cd)	µg/l	11	< 0.50	0.81	2.42	0.50	2.00	III
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	11	< 3.00	5.17	7.11	5.68	6.52	II
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	0.035	0.070	0.030	0.060	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	11	< 0.000	0.052	0.170	0.040	0.080	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0000	0.0000	0.0000			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	-							
Macrozoobenthos no. of taxa	-	7	2	3	5	3		
Total coliforms (37 C)	1000CFU/100m	5	0.600	1.960	3.800	2.400		
Faecal coliforms (44 C)	1000CFU/100m	5	0.000	0.140	0.400	0.000		
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	2005
Distance from the mouth 0	Altitude: 5 m	MD03
Location: Left		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s	11	42.3	121.0	449.0	118.0	137.0	
Temperature	°C	12	0.8	12.4	25.8	12.2	22.6	
Suspended solids	mg/l	12	10.0	54.2	110.0	50.0	100.0	
Dissolved oxygen	mg/l	11	4.5	7.7	10.8	8.5	5.1	III
BOD (5)	mg/l	12	2.0	2.9	4.3	2.6	3.9	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	12	13.6	19.9	33.6	18.3	25.9	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.2	7.8	8.4	7.8	8.3	II
							7.3	II
Alkalinity - total	mmol/l	12	3.0	3.6	4.7	3.4	4.4	
Ammonium (NH4-N)	mg/l	12 <	0.020	0.321	0.780	0.315	0.553	III
Nitrite (NO2-N)	mg/l	12 <	0.005	0.022	0.036	0.021	0.033	II
Nitrate (NO3-N)	mg/l	12 <	0.100	0.938	1.920	0.825	1.838	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.012	0.026	0.063	0.019	0.042	I
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	12	0.022	0.058	0.084	0.062	0.078	
Chlorophyll A	µg/l	4 <	0.0	1.8	2.4	2.4		I
Conductivity	µS/cm	12	515	668	830	680	793	
Calcium (Ca++)	mg/l	12	53.7	60.4	70.5	58.5	69.8	
Sulphate (SO4--)	mg/l	12	75.6	105.7	161.0	102.0	127.8	
Magnesium (Mg++)	mg/l	12	11.7	18.5	43.3	15.8	25.5	
Potassium (K+)	mg/l	12	4.8	6.6	8.0	6.2	7.8	
Sodium (Na+)	mg/l	12	34.0	51.6	69.6	49.0	67.6	
Manganese (Mn)	mg/l	12	0.0560	0.1020	0.2160	0.0840	0.1838	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	24.8	33.6	46.1	32.9	38.7	
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 <	3.00 <	3.00 <	3.00	3.00	**
Chromium (Cr), total dissolved	µg/l							
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 <	3.00 <	3.00 <	3.00	3.00	**
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	7.99	18.43	48.65	14.30	41.25	II
Copper (Cu)	µg/l	12 <	3.00	4.68	7.20	3.81	7.10	II
Chromium (Cr) - total	µg/l	12 <	3.00	6.10	14.97	4.19	13.18	II
Lead (Pb)	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	II
Cadmium (Cd)	µg/l	12 <	0.50	2.57	18.20	0.61	2.33	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12 <	3.00	3.74	5.82	3.75	4.16	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0029	0.0150	0.0010	0.0091	
Anionic active surfactants (PAL-A)	mg/l	12	0.020	0.033	0.040	0.040	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.000	0.049	0.070	0.060	0.069	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	2	0.0000	0.0000	0.0000			I
pp-DDT	µg/l	2	0.0500	0.0780	0.1060			**
Atrazine	µg/l							
Chloroform	µg/l							
Carbon tetrachloride	µg/l							
Trichloroethylene	µg/l							
Tetrachloroethylene	µg/l							
Macrozoobenthos sapr. index	-	1	1.50	1.50	1.50			I
Macrozoobenthos no. of taxa	-	7	1	2	4	2		
Total coliforms (37 C)	1000CFU/100m	6	0.800	13.983	28.000	14.050		
Faecal coliforms (44 C)	1000CFU/100m	6	0.000	0.150	0.800	0.000		
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

2005

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	42.3	115.9	449.0	92.2	135.9	
Temperature	°C	12	1.0	11.9	25.2	13.1	22.1	
Suspended solids	mg/l	12	10.0	142.5	560.0	120.0	205.0	
Dissolved oxygen	mg/l	12	4.2	7.5	12.3	7.3	5.9	III
BOD (5)	mg/l	12	2.2	3.0	4.3	2.9	3.8	II
COD (Mn)	mg/l							
COD (Cr)	mg/l	12	12.7	18.3	29.6	16.3	26.3	III
TOC	mg/l							
DOC	mg/l							
pH	-	12	7.5	8.0	8.7	8.0	8.4	II
							7.5	II
Alkalinity - total	mmol/l	12	2.9	3.5	4.6	3.4	4.0	
Ammonium (NH4-N)	mg/l	12	0.140	0.295	0.520	0.300	0.358	III
Nitrite (NO2-N)	mg/l	12 <	0.005	0.040	0.250	0.018	0.043	II
Nitrate (NO3-N)	mg/l	12 <	0.100	1.114	3.700	0.940	2.447	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	12	0.005	0.021	0.051	0.017	0.045	I
Total phosphorus	mg/l							
Total phosphorus, dissolved	mg/l	12	0.021	0.061	0.102	0.059	0.082	
Chlorophyll A	µg/l	4	1.2	3.3	4.7	3.6		I
Conductivity	µS/cm	12	495	632	1110	570	716	
Calcium (Ca++)	mg/l	12	50.1	60.1	74.1	60.8	72.3	
Sulphate (SO4--)	mg/l	12	75.6	101.9	126.0	100.7	125.7	
Magnesium (Mg++)	mg/l	12	6.9	18.2	46.3	17.5	24.0	
Potassium (K+)	mg/l	12	5.2	6.2	6.8	6.4	6.8	
Sodium (Na+)	mg/l	12	30.0	48.1	75.2	47.2	59.9	
Manganese (Mn)	mg/l	12	0.0230	0.0951	0.2920	0.0715	0.1418	
Iron (Fe)	mg/l							
Chloride (Cl-)	mg/l	12	23.1	30.8	40.8	28.4	40.6	
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 <	3.00 <	3.00 <	3.00	3.00	**
Chromium (Cr), total dissolved	µg/l							
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 <	3.00 <	3.00 <	3.00	3.00	**
Arsenic (As), dissolved	µg/l							
Aluminium (Al), dissolved	µg/l							
Zinc (Zn)	µg/l	12	9.87	23.07	40.14	21.36	38.77	II
Copper (Cu)	µg/l	12 <	3.00	4.96	10.92	3.45	8.93	II
Chromium (Cr) - total	µg/l	12 <	3.00	7.90	21.60	3.74	20.76	II
Lead (Pb)	µg/l	12 <	3.00 <	3.00 <	3.00 <	3.00	3.00	II
Cadmium (Cd)	µg/l	12 <	0.50	1.31	4.07	0.50	3.91	IV
Mercury (Hg)	µg/l							
Nickel (Ni)	µg/l	12 <	3.00	5.23	9.37	5.11	6.71	II
Arsenic (As)	µg/l							
Aluminium (Al)	µg/l							
Phenol index	mg/l	12	0.0010	0.0028	0.0140	0.0010	0.0065	
Anionic active surfactants (PAL-A)	mg/l	12	0.020	0.033	0.060	0.030	0.040	
AOX	µg/l							
Petroleum hydrocarbons	mg/l	12 <	0.000	0.049	0.090	0.050	0.079	
PAHs (Borneff 6)	µg/l							
PCBs (7 congeners)	µg/l							
Lindane (gama-HCH)	µg/l	3	0.0000	0.0000	0.0000			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	-							
Macrozoobenthos no. of taxa	-	7	1	2	3	2		
Total coliforms (37 C)	1000CFU/100m	9	1.800	23.700	86.000	6.800		
Faecal coliforms (44 C)	1000CFU/100m	9	0.000	0.656	3.000	0.200		
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: 805700 km2	2005
Distance from the mouth 132	Altitude: 4 m	UA01
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	8	7.3	17.2	24.3	18.6		
Suspended solids	mg/l	8	59.5	171.5	400.0	140.0		
Dissolved oxygen	mg/l	8	6.3	8.1	9.4	8.4		II
BOD (5)	mg/l	8	0.6	2.9	5.7	2.6		III
COD (Mn)	mg/l	8	4.1	5.3	9.4	4.9		II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	8	7.7	7.9	8.1	8.0		II
Alkalinity - total	mmol/l							II
Ammonium (NH4-N)	mg/l	8	0.040	0.148	0.300	0.140		II
Nitrite (NO2-N)	mg/l	8	0.020	0.030	0.050	0.029		II
Nitrate (NO3-N)	mg/l	8	0.880	1.156	1.370	1.195		II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	8	0.034	0.069	0.131	0.063		III
Total phosphorus	mg/l	8	0.061	0.126	0.204	0.102		III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l	8	46.5	52.1	62.3	52.1		
Sulphate (SO4--)	mg/l	8	28.4	41.8	51.2	41.4		
Magnesium (Mg++)	mg/l	8	9.5	13.0	16.3	12.8		
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l	8	15.8	28.4	42.2	26.0		
Manganese (Mn)	mg/l	8	0.0046	0.1512	0.7601	0.0101		
Iron (Fe)	mg/l	8	0.020	0.250	0.390	0.265		
Chloride (Cl-)	mg/l	8	26.9	33.8	40.5	33.2		
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	8	1.60	6.73	11.80	7.10		II
Copper (Cu)	µg/l	8	<	0.00	6.34	9.90	6.75	II
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	8	0.0010	0.0023	0.0040	0.0020		
Anionic active surfactants (PAL-A)	mg/l	4	0.020	0.033	0.060	0.025		
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: Danube	Catchment: 817000 km2	2005
Distance from the mouth 18	Altitude: 1 m	UA02
Location: Middle		

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Class
Flow	m3/s							
Temperature	°C	11	1.3	13.9	24.2	16.3	22.7	
Suspended solids	mg/l	11	17.2	158.6	405.0	108.0	339.0	
Dissolved oxygen	mg/l	11	5.6	8.7	12.1	8.5	6.0	III
BOD (5)	mg/l	11	1.2	2.3	3.3	2.2	3.2	II
COD (Mn)	mg/l	11	4.1	5.5	11.5	4.8	5.7	II
COD (Cr)	mg/l							
TOC	mg/l							
DOC	mg/l							
pH	-	11	7.6	8.0	8.2	8.0	8.1	II
							7.8	II
Alkalinity - total	mmol/l							
Ammonium (NH4-N)	mg/l	11	0.040	0.210	0.440	0.230	0.410	III
Nitrite (NO2-N)	mg/l	11	0.020	0.026	0.047	0.023	0.038	II
Nitrate (NO3-N)	mg/l	11	0.950	1.465	2.340	1.310	2.100	II
Total nitrogen	mg/l							
Organic nitrogen	mg/l							
Orthophosphate (PO4-P)	mg/l	11	0.022	0.094	0.131	0.103	0.117	III
Total phosphorus	mg/l	11	0.072	0.152	0.296	0.127	0.204	III
Total phosphorus, dissolved	mg/l							
Chlorophyll A	µg/l							
Conductivity	µS/cm							
Calcium (Ca++)	mg/l	11	46.7	53.6	62.3	52.5	58.7	
Sulphate (SO4--)	mg/l	11	33.2	44.3	72.9	41.0	51.2	
Magnesium (Mg++)	mg/l	11	8.0	12.0	15.6	12.8	14.2	
Potassium (K+)	mg/l							
Sodium (Na+)	mg/l	11	17.8	31.0	52.2	25.2	50.0	
Manganese (Mn)	mg/l	6	0.0028	0.0627	0.3040	0.0095		
Iron (Fe)	mg/l	6	0.030	0.153	0.270	0.170		
Chloride (Cl-)	mg/l	11	26.9	32.2	40.5	30.9	37.1	
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	6	1.93	13.91	42.00	9.10		II
Copper (Cu)	µg/l	6	2.10	3.84	8.90	2.97		II
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	0.0032	0.0060	0.0030	0.0050	
Anionic active surfactants (PAL-A)	mg/l	7	0.010	0.021	0.040	0.020		
AOX	µg/l							
Petroleum hydrocarbons	mg/l	8	0.050	0.055	0.080	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