

ANNEX 1

River	Danube	Catchment	8107 km ²	D01
Distance from the mouth [km]	2581.0	Altitude	460 m	
Location	Neu-Ulm L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	366	47.2	108.5	420.2	98.5	160.6	86.0	114.5	117.9	115.4
Temperature	°C	25	1.5	9.5	18.0	9.4	16.3	3.9	13.3	14.7	6.8
Suspended Solids	mg/l	25	2	11	112	3	24	7	3	8	24
Dissolved Oxygen	mg/l	25	7.6	10.4	12.9	10.5	8.7	11.5	9.4	9.7	10.9
pH	-	25	7.5	8.1	8.3	8.1	8.2	7.9	8.2	8.2	8.1
Conductivity @ 20°C	µS/cm	25	353	466	561	468	539	508	437	450	458
Alkalinity	mmol/l	25	3.7	4.3	5.0	4.3	4.8	4.6	4.1	4.2	4.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.01	0.09	0.24	0.05	0.17	0.18	0.06	0.03	0.07
Nitrite-N (NO ₂ ⁻ -N)	mg/l										
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	2.20	3.44	4.90	3.30	4.76	4.40	3.14	3.07	3.00
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.015	0.041	0.064	0.043	0.056	0.042	0.040	0.040	0.042
Total Phosphorus	mg/l	25	0.04	0.08	0.17	0.07	0.11	0.09	0.08	0.08	0.07
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	25	10	22	38	21	32	27	19	20	21
Sulphate (SO ₄ ²⁻)	mg/l	25	17	23	28	24	27	25	22	23	21
Iron (Fe)	mg/l	25	0.06	0.27	3.20	0.10	0.30	0.19	0.12	0.16	0.61
Manganese (Mn)	mg/l	25	0.008	0.028	0.250	0.017	0.030	0.020	0.019	0.020	0.053
Zinc (Zn)	µg/l	25	5.0	6.0	20.0	5.0	5.0	7.1	5.0	5.0	6.7
Copper (Cu)	µg/l	25	0.5	4.3	20.0	3.0	7.6	5.1	3.8	4.4	3.8
Chromium (Cr) - total	µg/l	25	0.5	2.8	8.0	2.0	5.0	2.8	1.9	2.4	3.8
Lead (Pb)	µg/l	25	0.5	1.2	11.0	0.5	2.6	0.9	0.5	2.2	1.0
Cadmium (Cd)	µg/l	25	0.05	0.09	0.40	0.05	0.20	0.14	0.11	0.08	0.05
Mercury (Hg)	µg/l	25	0.05	0.06	0.20	0.05	0.10	0.05	0.05	0.07	0.08
Nickel (Ni)	µg/l	25	0.5	1.4	7.0	0.5	3.0	1.2	1.8	0.9	1.9
Arsenic (As)	µg/l	25	0.5	0.6	2.2	0.5	0.5	0.5	0.5	0.5	0.8
Aluminium (Al)	µg/l										
BOD ₅	mg/l	25	0.5	1.5	4.5	1.3	2.1	1.7	1.4	1.1	1.8
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	25	1.0	2.7	6.4	2.4	4.1	2.4	2.3	2.8	3.2
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l	5	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.01
Chloroform	µg/l	13	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	13	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01
Trichloroethylene	µg/l	13	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	13	0.05	0.06	0.10	0.05	0.09	0.06	0.05	0.07	0.05
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		157							
Macrozoobenthos	sapr.index	1		2.3							
Chlorophyll-a	µg/l	25	0.5	2.5	15.0	0.5	5.2	2.0	3.8	3.6	0.5

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	77086 km ²	D02
Distance from the mouth [km]	2204.0	Altitude	290 m	
Location	Jochenstein M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	366	656.1	1281.1	3498.0	1228.7	1685.0	911.6	1395.3	1509.6	1305.1
Temperature	°C	25	0.1	10.0	18.8	11.2	17.3	2.7	13.9	15.5	7.2
Suspended Solids	mg/l	26	2	25	217	14	40	4	19	35	42
Dissolved Oxygen	mg/l	26	8.8	11.1	13.8	11.3	9.1	12.8	10.9	9.5	11.2
pH	-	26	7.9	8.2	8.6	8.1	8.5	8.1	8.4	8.1	8.1
Conductivity @ 20°C	µS/cm	26	286	356	440	345	430	417	329	309	368
Alkalinity	mmol/l	26	2.6	3.2	3.7	3.2	3.6	3.5	2.9	2.9	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.03	0.08	0.20	0.07	0.16	0.14	0.05	0.06	0.07
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.018	0.030	0.015	0.030	0.027	0.017	0.010	0.017
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	1.10	2.34	3.50	2.00	3.40	3.31	2.20	1.54	2.27
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.003	0.037	0.080	0.040	0.050	0.049	0.018	0.036	0.043
Total Phosphorus	mg/l	26	0.06	0.09	0.21	0.08	0.12	0.09	0.08	0.09	0.09
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	26	47.1	57.5	69.8	55.6	66.6	65.2	53.9	51.1	59.7
Magnesium (Mg ²⁺)	mg/l	26	10.7	13.7	19.6	13.3	15.9	15.3	12.7	12.2	14.5
Chloride (Cl ⁻)	mg/l	26	9	15	25	14	21	21	14	11	15
Sulphate (SO ₄ ²⁻)	mg/l	26	20	27	37	26	34	33	25	23	27
Iron (Fe)	mg/l	26	0.08	0.31	2.10	0.18	0.53	0.15	0.23	0.38	0.49
Manganese (Mn)	mg/l	26	0.016	0.038	0.250	0.030	0.042	0.026	0.036	0.035	0.059
Zinc (Zn)	µg/l	26	5.0	11.9	20.0	10.0	20.0	15.7	10.8	9.3	11.7
Copper (Cu)	µg/l	26	2.0	3.3	7.0	3.0	4.0	2.7	3.2	3.7	3.5
Chromium (Cr) - total	µg/l	26	0.5	0.6	2.0	0.5	1.0	0.5	0.5	0.6	0.8
Lead (Pb)	µg/l	26	0.5	1.1	9.0	0.5	1.5	0.6	0.7	1.3	1.9
Cadmium (Cd)	µg/l	26	0.05	0.06	0.10	0.05	0.10	0.06	0.06	0.05	0.07
Mercury (Hg)	µg/l	26	0.05	0.05	0.10	0.05	0.05	0.06	0.06	0.05	0.05
Nickel (Ni)	µg/l	26	0.5	1.0	5.0	1.0	1.0	0.8	0.8	0.9	1.3
Arsenic (As)	µg/l	26	0.5	0.8	2.0	0.5	1.0	0.6	1.0	0.7	0.8
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	1.3	2.2	4.2	1.9	3.4	2.6	2.6	1.5	1.9
COD _{Cr}	mg/l	26	7.5	7.5	7.5						
COD _{Mn}	mg/l	26	1.9	3.0	7.3	2.9	3.4	2.7	2.8	2.9	3.6
DOC	mg/l	26	2.1	3.1	4.5	3.0	4.1	3.1	2.9	3.3	3.2
Phenol index	mg/l	12	0.010	0.010	0.010						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.01	0.01	0.01						
AOX	µg/l	12	5.0	5.8	10.0						
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l	4	0.01	0.02	0.02						
Chloroform	µg/l	11	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	11	0.01	0.01	0.01						
Trichloroethylene	µg/l	11	0.05	0.06	0.10	0.05	0.10	0.05	0.07	0.06	0.05
Tetrachloroethylene	µg/l	11	0.10	0.12	0.20	0.10	0.20	0.13	0.13	0.10	0.10
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4	109	112	115						
Macrozoobenthos	sapr.index	4	2.2	2.2	2.2						
Chlorophyll-a	µg/l	25	0.5	11.8	68.0	5.0	27.8	8.6	24.9	10.3	2.7

* in case of dissolved oxygen C10 was calculated

River	/Inn	Catchment	9905 km ²	D03
Distance from the mouth [km]	195.0	Altitude	452 m	
Location	Kirchdorf M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	366	66.5	259.8	709.4	250.8	428.2	114.8	293.2	378.6	251.6
Temperature	°C	26	2.5	9.1	16.5	8.4	15.5	3.8	12.4	13.1	7.2
Suspended Solids	mg/l	23	2	50	504	2	158	2	37	64	102
Dissolved Oxygen	mg/l	26	9.5	11.9	14.1	11.5	10.4	13.2	10.8	10.9	12.7
pH	-	26	7.9	8.1	8.3	8.1	8.2	8.0	8.1	8.1	8.1
Conductivity @ 20°C	µS/cm	26	166	262	364	258	342	321	239	215	271
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.03	0.13	0.38	0.11	0.23	0.22	0.10	0.10	0.08
Nitrite-N (NO ₂ ⁻ -N)	mg/l										
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	0.40	0.60	1.00	0.70	1.00	0.84	0.62	0.50	0.62
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.007	0.027	0.064	0.020	0.051	0.049	0.020	0.020	0.018
Total Phosphorus	mg/l	26	0.03	0.10	0.47	0.07	0.18	0.08	0.10	0.11	0.11
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	24	2	4	8	4	7	5	4	3	4
Sulphate (SO ₄ ²⁻)	mg/l										
Iron (Fe)	mg/l	26	0.08	1.07	6.30	0.26	3.60	0.19	1.06	2.01	1.01
Manganese (Mn)	mg/l	26	0.004	0.038	0.310	0.015	0.081	0.012	0.041	0.046	0.058
Zinc (Zn)	µg/l	26	5.0	24.0	70.0	15.0	55.0	43.6	21.7	12.9	16.7
Copper (Cu)	µg/l	26	0.5	3.8	15.0	3.0	7.5	2.9	4.7	4.3	3.4
Chromium (Cr) - total	µg/l	26	0.5	2.0	10.0	0.5	6.0	0.7	2.5	3.3	1.4
Lead (Pb)	µg/l	26	0.5	2.4	22.0	1.0	4.5	1.4	2.3	2.0	4.1
Cadmium (Cd)	µg/l	26	0.05	0.10	0.40	0.08	0.20	0.06	0.15	0.11	0.09
Mercury (Hg)	µg/l	26	0.20	0.38	0.70	0.40	0.50	0.33	0.40	0.40	0.40
Nickel (Ni)	µg/l	25	0.5	2.9	12.0	2.0	7.6	1.1	3.9	3.4	3.3
Arsenic (As)	µg/l	26	0.5	2.4	7.0	2.0	4.7	2.3	2.0	3.6	1.5
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	0.5	2.8	4.7	2.8	4.0	3.5	2.6	2.6	2.6
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	26	0.7	1.7	9.1	1.4	2.2	1.0	1.6	1.7	2.5
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l	4	0.010	0.010	0.010						
Atrazine	µg/l	4	0.01	0.05	0.18						
Chloroform	µg/l	13	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	13	0.01	0.01	0.01						
Trichloroethylene	µg/l	13	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	13	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		63							
Macrozoobenthos	sapr.index	1		2.4							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Inn/Salzach	Catchment	6113 km ²	D04
Distance from the mouth [km]	47.0	Altitude	390 m	
Location	Laufen L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	366	60.6	219.7	1002.8	204.0	366.7	94.4	274.2	305.9	203.6
Temperature	°C	26	1.6	7.5	13.2	8.0	12.6	2.8	10.3	11.1	6.0
Suspended Solids	mg/l	26	1	26	150	10	51	12	24	44	25
Dissolved Oxygen	mg/l	26	8.6	11.4	13.0	11.4	10.2	12.3	10.6	10.9	11.6
pH	-	26	7.8	7.9	8.1	7.9	8.1	7.9	8.0	8.0	7.9
Conductivity @ 20°C	µS/cm	26	185	272	360	265	330	326	229	245	286
Alkalinity	mmol/l	26	1.7	2.5	3.1	2.5	2.9	2.7	2.1	2.3	2.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	26	0.01	0.08	0.27	0.04	0.19	0.18	0.05	0.02	0.04
Nitrite-N (NO ₂ ⁻ -N)	mg/l										
Nitrate-N (NO ₃ ⁻ -N)	mg/l	26	0.39	0.72	1.10	0.67	0.93	0.82	0.72	0.56	0.77
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	26	0.009	0.023	0.058	0.017	0.040	0.038	0.017	0.013	0.022
Total Phosphorus	mg/l	19	0.03	0.06	0.13	0.06	0.09	0.07	0.08	0.07	0.05
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	26	30.4	43.2	54.7	42.9	50.5	49.1	36.4	40.3	46.5
Magnesium (Mg ²⁺)	mg/l	26	7.1	9.5	13.7	9.0	11.8	12.1	8.1	7.9	9.6
Chloride (Cl ⁻)	mg/l	26	3	7	14	6	10	10	5	5	7
Sulphate (SO ₄ ²⁻)	mg/l	26	13	22	35	21	32	31	17	17	21
Iron (Fe)	mg/l	26	0.04	0.74	3.30	0.52	1.47	0.26	0.69	1.18	0.84
Manganese (Mn)	mg/l	26	0.010	0.038	0.100	0.028	0.077	0.036	0.039	0.045	0.031
Zinc (Zn)	µg/l	26	5.0	12.7	30.0	10.0	25.0	9.3	18.3	10.7	13.3
Copper (Cu)	µg/l	25	0.5	2.4	6.0	2.0	3.6	2.2	2.3	3.1	1.6
Chromium (Cr) - total	µg/l	26	0.5	2.2	9.0	2.0	4.5	1.9	2.8	2.2	2.0
Lead (Pb)	µg/l	26	0.5	3.3	9.0	2.0	7.0	5.9	4.2	0.9	2.3
Cadmium (Cd)	µg/l	26	0.05	0.17	0.70	0.10	0.35	0.29	0.18	0.09	0.10
Mercury (Hg)	µg/l	26	0.05	0.28	0.90	0.05	0.75	0.31	0.34	0.21	0.25
Nickel (Ni)	µg/l	26	0.5	7.6	39.0	3.5	24.5	11.6	2.9	6.5	8.7
Arsenic (As)	µg/l	26	0.5	1.8	6.0	1.0	4.4	1.4	1.7	2.7	1.4
Aluminium (Al)	µg/l										
BOD ₅	mg/l	26	0.5	2.6	4.6	2.6	3.9	3.6	2.1	2.7	2.0
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	26	1.4	2.8	7.8	2.5	4.3	2.9	3.2	2.8	2.2
DOC	mg/l	26	0.9	1.8	2.7	1.8	2.6	2.3	1.7	1.7	1.4
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l	13	5.0	5.0	5.0						
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l	5	0.01	0.01	0.01						
Chloroform	µg/l	13	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	13	0.01	0.01	0.01						
Trichloroethylene	µg/l	13	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		111							
Macrozoobenthos	sapr.index	1		3.0							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	77020 km ²	A01
Distance from the mouth [km]	2204.0	Altitude	290 m	
Location	Jochenstein M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	644.0	1194.4	1666.0	1212.5	1631.5	781.3	1298.7	1343.3	1354.3
Temperature	°C	12	1.3	9.5	16.9	10.1	16.5	2.2	13.2	14.6	8.1
Suspended Solids	mg/l	12	3	13	40	9	26	4	14	29	5
Dissolved Oxygen	mg/l	12	8.9	11.1	13.2	11.5	9.0	12.7	11.2	9.4	11.1
pH	-	12	7.7	8.2	8.4	8.2	8.3	8.2	8.2	7.9	8.3
Conductivity @ 20°C	µS/cm	12	303	384	456	403	448	450	355	324	408
Alkalinity	mmol/l	12	2.8	3.4	3.9	3.4	3.9	3.9	3.2	3.0	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.12	0.24	0.11	0.21	0.19	0.11	0.10	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.018	0.030	0.018	0.027	0.018	0.020	0.014	0.018
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.67	2.45	3.55	2.06	3.50	3.50	2.32	1.70	2.28
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.002	0.034	0.066	0.034	0.051	0.044	0.020	0.032	0.039
Total Phosphorus	mg/l	12	0.04	0.08	0.12	0.08	0.10	0.08	0.09	0.07	0.06
Sodium (Na ⁺)	mg/l	12	6.1	9.7	14.7	8.7	12.6	12.8	8.7	7.5	10.0
Potassium (K ⁺)	mg/l	12	2.0	2.7	3.4	2.5	3.3	3.3	2.5	2.2	2.7
Calcium (Ca ²⁺)	mg/l	12	50.8	65.7	83.0	65.0	81.7	78.9	58.4	53.2	72.1
Magnesium (Mg ²⁺)	mg/l	12	10.5	14.5	23.8	13.9	17.8	18.9	13.2	11.2	14.5
Chloride (Cl ⁻)	mg/l	12	10	16	25	14	22	23	15	11	15
Sulphate (SO ₄ ²⁻)	mg/l	12	22	27	34	26	34	33	26	24	26
Iron (Fe)	mg/l	12	0.09	0.39	1.35	0.21	1.04	0.13	0.28	0.93	0.21
Manganese (Mn)	mg/l	12	0.010	0.024	0.040	0.020	0.040	0.023	0.023	0.033	0.017
Zinc (Zn)	µg/l	12	1.0	5.1	8.0	5.5	7.0	3.7	3.7	6.0	7.0
Copper (Cu)	µg/l	12	1.0	2.4	4.0	2.0	3.0	1.7	3.0	2.7	2.3
Chromium (Cr) - total	µg/l	12	0.5	0.7	2.0	0.5	1.0	0.5	0.5	1.2	0.5
Lead (Pb)	µg/l	12	0.5	0.8	2.0	0.5	1.0	0.5	0.8	1.2	0.5
Cadmium (Cd)	µg/l	12	0.05	0.06	0.20	0.05	0.05	0.05	0.05	0.05	0.10
Mercury (Hg)	µg/l	12	0.10	0.13	0.20	0.10	0.20	0.13	0.10	0.10	0.17
Nickel (Ni)	µg/l	12	0.5	1.4	3.0	1.0	2.0	0.8	1.7	2.3	0.8
Arsenic (As)	µg/l	12	0.5	0.8	2.0	0.5	1.0	0.7	0.7	1.2	0.7
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.1	2.1	4.0	2.0	3.3	1.9	2.8	1.5	2.3
COD _{Cr}	mg/l	12	3.0	10.5	22.1	11.5	13.0	11.4	12.0	12.3	6.3
COD _{Mn}	mg/l										
DOC	mg/l	12	2.4	4.6	6.7	4.5	5.9	4.0	4.3	4.2	5.9
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l	12	5.4	8.0	12.4	7.8	10.0	9.2	6.6	8.0	8.4
Lindane	µg/l	12	0.005	0.005	0.005						
pp DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.05	0.05	0.05						
Chloroform	µg/l	12	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.06	0.12	0.05	0.05	0.07	0.05	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.520	6.785	21.000	3.050	19.200	1.433	2.040	17.333	6.333
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.200	0.675	1.900	0.415	1.280	0.267	0.330	1.260	0.843
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.010	0.154	0.360	0.145	0.328	0.123	0.150	0.197	0.147
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		36							
Macrozoobenthos	sapr.index	1		2.0							
Chlorophyll-a	µg/l	12	2.0	14.2	80.0	7.5	18.0	6.0	35.7	11.7	3.3

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	83992 km ²	A02
Distance from the mouth [km]	2120.0	Altitude	251 m	
Location	Abwinden-Asten R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	714.0	1358.8	1963.0	1421.5	1864.2	862.7	1537.7	1557.3	1477.3
Temperature	°C	12	1.6	9.7	17.7	10.2	15.9	2.7	12.7	15.1	8.2
Suspended Solids	mg/l	12	3	11	23	11	21	10	14	16	4
Dissolved Oxygen	mg/l	12	8.8	11.2	14.3	11.3	9.4	13.0	11.0	9.8	11.1
pH	-	12	7.9	8.2	8.5	8.2	8.3	8.2	8.2	8.0	8.3
Conductivity @ 20°C	µS/cm	12	319	391	453	409	446	448	364	342	412
Alkalinity	mmol/l	12	2.8	3.3	4.0	3.3	3.9	3.9	3.1	2.9	3.4
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.10	0.24	0.09	0.16	0.15	0.09	0.09	0.08
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.017	0.024	0.015	0.024	0.016	0.020	0.015	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.56	2.35	3.46	1.95	3.41	3.42	2.23	1.60	2.15
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.004	0.029	0.052	0.029	0.042	0.040	0.020	0.027	0.030
Total Phosphorus	mg/l	12	0.04	0.09	0.28	0.06	0.17	0.08	0.11	0.05	0.13
Sodium (Na ⁺)	mg/l	12	6.9	10.6	14.8	9.6	13.2	13.5	9.5	9.0	10.2
Potassium (K ⁺)	mg/l	12	2.3	2.7	3.6	2.6	3.2	3.3	2.6	2.4	2.6
Calcium (Ca ²⁺)	mg/l	12	52.4	67.5	82.0	67.2	79.0	79.6	64.7	57.2	68.7
Magnesium (Mg ²⁺)	mg/l	12	7.1	11.2	13.6	11.6	13.2	12.4	11.1	10.7	10.6
Chloride (Cl ⁻)	mg/l	12	13	20	27	21	25	24	20	18	20
Sulphate (SO ₄ ²⁻)	mg/l	12	21	26	34	25	34	33	25	22	25
Iron (Fe)	mg/l	12	0.09	0.25	0.59	0.18	0.52	0.15	0.26	0.42	0.17
Manganese (Mn)	mg/l	12	0.010	0.018	0.040	0.020	0.029	0.023	0.023	0.017	0.010
Zinc (Zn)	µg/l	12	2.0	5.6	9.0	5.5	8.0	7.0	4.0	5.3	6.0
Copper (Cu)	µg/l	12	1.0	1.8	4.0	1.5	2.9	1.7	2.7	1.7	1.0
Chromium (Cr) - total	µg/l	12	0.5	0.6	1.0	0.5	1.0	0.5	0.7	0.7	0.5
Lead (Pb)	µg/l	12	0.5	0.6	1.0	0.5	1.0	0.7	0.7	0.7	0.5
Cadmium (Cd)	µg/l	12	0.05	0.05	0.05						
Mercury (Hg)	µg/l	12	0.10	0.18	0.50	0.15	0.29	0.17	0.13	0.17	0.27
Nickel (Ni)	µg/l	12	0.5	1.2	2.0	1.0	2.0	1.3	1.2	1.3	0.8
Arsenic (As)	µg/l	12	0.5	0.6	1.0	0.5	1.0	0.7	0.7	0.7	0.5
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	0.5	2.3	4.9	2.2	4.2	2.6	3.3	2.0	1.3
COD _{Cr}	mg/l	12	4.7	8.6	12.0	8.5	11.5	7.5	9.0	10.2	7.5
COD _{Mn}	mg/l										
DOC	mg/l	12	2.5	4.3	6.4	4.0	5.3	3.7	4.1	3.9	5.4
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l	12	4.8	8.1	13.2	8.0	9.9	8.1	7.9	9.1	7.5
Lindane	µg/l	12	0.005	0.005	0.005						
pp DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.05	0.05	0.05						
Chloroform	µg/l	12	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.400	4.983	17.000	3.150	12.600	0.833	2.933	10.733	5.433
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.030	0.736	2.800	0.480	1.460	0.187	0.573	1.600	0.583
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.010	0.082	0.180	0.090	0.130	0.053	0.083	0.107	0.083
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		20							
Macrozoobenthos	sapr.index	1		2.0							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	101700 km ²	A03
Distance from the mouth [km]	1935.0	Altitude	159 m	
Location	Wien-Nussdorf R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	878.0	1726.0	2431.0	1777.5	2267.0	998.3	2144.0	1908.3	1853.3
Temperature	°C	12	0.8	9.7	18.6	10.0	16.1	2.2	13.0	15.4	8.0
Suspended Solids	mg/l	12	3	15	34	16	29	13	24	19	5
Dissolved Oxygen	mg/l	12	8.9	11.4	13.7	11.6	9.6	13.2	11.5	9.7	11.2
pH	-	12	8.0	8.2	8.5	8.2	8.3	8.2	8.2	8.1	8.3
Conductivity @ 20°C	µS/cm	12	314	375	450	384	445	443	351	320	388
Alkalinity	mmol/l	12	2.8	3.3	3.9	3.2	3.9	3.8	3.1	2.9	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.13	0.28	0.11	0.24	0.22	0.09	0.10	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.017	0.033	0.015	0.027	0.017	0.020	0.013	0.017
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.49	2.31	3.44	1.98	3.30	3.33	2.34	1.57	2.03
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.022	0.036	0.064	0.033	0.056	0.042	0.038	0.029	0.035
Total Phosphorus	mg/l	12	0.04	0.07	0.10	0.07	0.10	0.09	0.08	0.06	0.05
Sodium (Na ⁺)	mg/l	12	6.3	9.1	14.4	7.7	12.7	13.1	8.0	7.1	8.1
Potassium (K ⁺)	mg/l	12	1.9	2.5	3.4	2.4	3.2	3.2	2.4	2.1	2.4
Calcium (Ca ²⁺)	mg/l	12	50.0	64.3	81.0	64.0	77.2	76.3	59.6	53.0	68.3
Magnesium (Mg ²⁺)	mg/l	12	9.2	14.0	21.1	12.0	20.2	16.2	16.6	10.9	12.3
Chloride (Cl ⁻)	mg/l	12	12	16	25	14	22	23	15	12	14
Sulphate (SO ₄ ²⁻)	mg/l	12	22	28	38	26	36	36	26	24	27
Iron (Fe)	mg/l	12	0.04	0.33	0.86	0.30	0.47	0.12	0.36	0.54	0.28
Manganese (Mn)	mg/l	12	0.010	0.021	0.040	0.020	0.030	0.017	0.030	0.023	0.013
Zinc (Zn)	µg/l	12	2.0	7.6	26.0	5.5	11.8	8.0	5.0	4.3	13.0
Copper (Cu)	µg/l	12	1.0	2.1	3.0	2.0	3.0	2.0	2.3	2.0	2.0
Chromium (Cr) - total	µg/l	12	0.5	0.8	1.0	0.8	1.0	0.5	1.0	1.0	0.5
Lead (Pb)	µg/l	12	0.5	1.0	2.0	1.0	1.0	0.8	1.0	1.0	1.0
Cadmium (Cd)	µg/l	12	0.05	0.05	0.05						
Mercury (Hg)	µg/l	12	0.10	0.18	0.50	0.10	0.30	0.10	0.17	0.30	0.13
Nickel (Ni)	µg/l	12	0.5	1.2	2.0	1.0	2.0	0.8	1.3	1.3	1.3
Arsenic (As)	µg/l	12	0.5	1.0	1.0	1.0	1.0	0.8	1.0	1.0	1.0
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.1	2.1	4.5	1.7	4.0	1.4	3.0	2.5	1.6
COD _{Cr}	mg/l	6	7.5	9.9	13.0	9.8	12.5		12.3	7.5	7.5
COD _{Mn}	mg/l										
DOC	mg/l	12	2.1	4.4	6.1	4.7	5.1	3.9	4.2	4.3	5.3
Phenol index	mg/l	12	0.005	0.005	0.005						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.05	0.05	0.05						
AOX	µg/l	11	5.3	8.7	14.1	6.8	13.1	10.7	10.2	8.4	6.1
Lindane	µg/l	12	0.005	0.005	0.005						
pp DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.05	0.05	0.05						
Chloroform	µg/l	12	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l	12	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	6	1.900	3.883	8.700	2.900	6.700			4.633	3.133
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.150	0.438	0.850	0.445	0.721	0.263	0.353	0.623	0.510
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.020	0.066	0.120	0.060	0.109	0.060	0.037	0.057	0.110
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		32							
Macrozoobenthos	sapr.index	1		2.2							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	131411 km ²	A04
Distance from the mouth [km]	1874.0	Altitude	140 m	
Location	Wolfsthal R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	926.0	1888.5	3065.0	1909.0	2098.0	1241.0	2303.3	1889.0	1905.0
Temperature	°C	11	2.0	10.7	20.4	11.5	18.3	2.7	14.1	15.3	8.1
Suspended Solids	mg/l	11	3	22	102	16	31	54	18	19	7
Dissolved Oxygen	mg/l	11	8.8	11.0	13.5	11.2	9.1	13.3	10.9	9.4	11.3
pH	-	11	7.9	8.1	8.4	8.1	8.3	8.2	8.1	8.0	8.3
Conductivity @ 20°C	µS/cm	11	286	373	482	340	475	479	313	323	411
Alkalinity	mmol/l	11	2.8	3.2	3.9	3.2	3.6	3.8	3.0	2.9	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.06	0.16	0.45	0.13	0.24	0.35	0.14	0.08	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.012	0.026	0.040	0.024	0.036	0.023	0.030	0.017	0.032
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.65	2.30	3.44	1.92	3.32	3.38	2.31	1.80	2.07
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.003	0.032	0.060	0.034	0.039	0.040	0.024	0.031	0.035
Total Phosphorus	mg/l	11	0.06	0.09	0.13	0.09	0.12	0.10	0.11	0.07	0.08
Sodium (Na ⁺)	mg/l	11	7.2	9.3	17.1	8.4	10.6	12.6	8.8	8.3	8.7
Potassium (K ⁺)	mg/l	11	2.2	2.8	3.9	2.6	3.1	3.2	2.7	2.8	2.6
Calcium (Ca ²⁺)	mg/l	11	50.4	65.8	89.0	62.0	84.0	84.5	64.0	54.1	66.9
Magnesium (Mg ²⁺)	mg/l	11	7.6	11.9	17.2	11.9	16.1	11.2	10.3	10.2	15.8
Chloride (Cl ⁻)	mg/l	11	11	15	28	13	20	24	13	14	14
Sulphate (SO ₄ ²⁻)	mg/l	11	24	31	40	30	39	37	31	29	28
Iron (Fe)	mg/l	11	0.13	0.29	0.58	0.25	0.44	0.15	0.42	0.34	0.19
Manganese (Mn)	mg/l	11	0.010	0.018	0.040	0.010	0.030	0.020	0.030	0.013	0.010
Zinc (Zn)	µg/l	11	2.0	5.0	8.0	5.0	8.0	4.0	4.7	5.0	6.0
Copper (Cu)	µg/l	11	1.0	2.0	4.0	2.0	2.0	1.5	2.7	1.7	2.0
Chromium (Cr) - total	µg/l	11	0.5	0.8	1.0	1.0	1.0	1.0	0.8	0.7	0.7
Lead (Pb)	µg/l	11	0.5	1.0	2.0	1.0	1.0	1.0	1.3	0.8	0.7
Cadmium (Cd)	µg/l	11	0.05	0.06	0.10	0.05	0.10	0.08	0.05	0.05	0.08
Mercury (Hg)	µg/l	11	0.10	0.14	0.20	0.10	0.20	0.15	0.13	0.10	0.17
Nickel (Ni)	µg/l	11	1.0	1.2	3.0	1.0	1.0	1.0	1.7	1.0	1.0
Arsenic (As)	µg/l	11	0.5	0.9	1.0	1.0	1.0	0.8	1.0	1.0	0.8
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	1.1	3.6	7.3	3.6	5.6	3.1	5.6	3.4	2.3
COD _{Cr}	mg/l	11	11.0	14.0	17.0	15.0	15.0	13.0	13.7	14.0	15.0
COD _{Mn}	mg/l										
DOC	mg/l	11	2.3	4.3	5.9	4.1	5.5	4.1	3.4	4.3	5.3
Phenol index	mg/l	11	0.005	0.005	0.005						
Anionic active surfactants	mg/l	11	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	11	0.05	0.05	0.05						
AOX	µg/l	11	4.6	9.2	16.7	7.0	14.3	13.7	12.2	7.2	5.3
Lindane	µg/l	11	0.005	0.005	0.005						
pp DDT	µg/l	11	0.010	0.039	0.050	0.050	0.050	0.050	0.037	0.037	0.037
Atrazine	µg/l	11	0.05	0.05	0.05						
Chloroform	µg/l	11	0.05	0.05	0.05						
Carbon tetrachloride	µg/l	11	0.05	0.05	0.05						
Trichloroethylene	µg/l	11	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	11	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	11	2.200	17.427	35.000	18.000	31.000	21.000	15.333	18.400	16.167
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	11	0.700	7.118	16.000	6.700	12.000	8.500	5.967	7.167	7.300
Faecal Streptococci	x10 ³ CFU/100 ml	11	0.200	1.282	2.800	1.200	2.200	2.300	1.000	0.900	1.267
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	1		18							
Macrozoobenthos	sapr.index	1		2.0							
Chlorophyll-a	µg/l	11	1.1	12.0	44.0	8.3	18.0	6.8	25.3	12.0	2.0

* in case of dissolved oxygen C10 was calculated

River	/Morava	Catchment	9883 km ²	CZ01
Distance from the mouth [km]	79.0	Altitude	200 m	
Location	Lanzhot M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	19.8	71.6	143.0	62.8	137.1	45.2	122.0	40.0	57.5
Temperature	°C	12	1.2	11.1	22.0	12.4	21.3	1.7	13.3	18.8	9.2
Suspended Solids	mg/l	12	4	87	619	24	155	17	226	20	13
Dissolved Oxygen	mg/l	12	8.7	11.2	14.5	10.7	8.8	13.8	10.2	9.7	11.4
pH	-	12	7.5	7.8	8.1	7.8	8.0	7.7	7.7	7.9	7.8
Conductivity @ 20°C	µS/cm	12	356	457	616	454	521	509	447	440	422
Alkalinity	mmol/l	12	1.8	2.8	3.5	2.8	3.3	3.3	2.3	2.8	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.69	2.80	0.21	1.93	2.19	0.25	0.05	0.29
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.060	0.170	0.045	0.133	0.027	0.108	0.047	0.035
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	2.80	3.98	6.80	3.75	5.05	4.37	4.85	2.97	3.20
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.039	0.184	0.300	0.194	0.276	0.251	0.148	0.233	0.086
Total Phosphorus	mg/l	12	0.16	0.31	0.53	0.29	0.44	0.28	0.30	0.43	0.20
Sodium (Na ⁺)	mg/l	12	12.4	19.7	29.4	18.7	26.7	25.8	16.2	20.7	16.3
Potassium (K ⁺)	mg/l	12	3.2	5.1	6.6	5.1	6.5	5.5	4.8	5.6	4.6
Calcium (Ca ²⁺)	mg/l	12	52.9	70.0	88.2	68.5	81.9	81.3	68.9	65.7	62.0
Magnesium (Mg ²⁺)	mg/l	12	3.6	12.3	24.9	11.7	21.3	20.3	9.9	9.1	9.7
Chloride (Cl ⁻)	mg/l	12	15	28	46	26	43	41	23	26	20
Sulphate (SO ₄ ²⁻)	mg/l	12	53	76	102	78	97	90	77	73	57
Iron (Fe)	mg/l	12	0.13	1.26	7.99	0.47	2.23	0.45	3.00	0.30	0.42
Manganese (Mn)	mg/l	12	0.020	0.167	0.820	0.090	0.248	0.167	0.303	0.050	0.070
Zinc (Zn)	µg/l	12	2.5	13.8	58.0	8.5	23.2	7.8	27.0	8.2	4.8
Copper (Cu)	µg/l	12	1.9	3.8	8.0	3.0	6.8	3.8	5.3	3.0	2.0
Chromium (Cr) - total	µg/l	12	0.5	1.9	4.0	2.0	3.4	2.8	1.4	1.0	3.0
Lead (Pb)	µg/l	12	0.5	2.7	7.0	2.3	5.9	2.0	5.3	1.0	1.2
Cadmium (Cd)	µg/l	12	0.05	0.10	0.50	0.05	0.23	0.27	0.05	0.05	0.05
Mercury (Hg)	µg/l	12	0.05	0.20	1.40	0.05	0.28	0.07	0.40	0.05	0.20
Nickel (Ni)	µg/l	12	0.5	3.4	11.0	2.5	5.0	2.5	6.0	1.7	2.4
Arsenic (As)	µg/l	12	0.1	0.1	0.1						
Aluminium (Al)	µg/l	12	5.0	5.0	5.0						
BOD ₅	mg/l	12	3.3	5.0	9.8	4.5	6.1	4.8	5.9	4.8	3.8
COD _{Cr}	mg/l	12	17.2	28.9	48.9	28.5	39.6	35.0	36.3	19.3	19.5
COD _{Mn}	mg/l	12	3.4	6.2	16.6	5.2	8.9	3.7	9.9	5.4	3.9
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	12	0.005	0.020	0.050	0.015	0.040	0.022	0.028	0.007	0.025
Petroleum hydrocarbons	mg/l	12	0.03	0.05	0.15	0.03	0.09	0.06	0.04	0.03	0.088
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l	12	0.05	0.73	5.60	0.10	1.84	0.10	0.16	2.55	0.10
Carbon tetrachloride	µg/l	12	0.05	0.08	0.40	0.05	0.10	0.07	0.05	0.17	0.05
Trichloroethylene	µg/l	12	0.05	0.07	0.20	0.05	0.10	0.13	0.05	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.31	1.90	0.10	0.74	0.93	0.14	0.08	0.05
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.800	4.650	12.000	4.700	5.780	1.733	6.250	5.267	4.900
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.400	1.667	4.200	1.600	2.200	0.667	2.200	1.867	1.800
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	8	10	12						
Macrozoobenthos	sapr.index	2	2.1	2.2	2.4						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Morava/Dyje	Catchment	12352 km ²	CZ02
Distance from the mouth [km]	17.0	Altitude	155 m	
Location	Breclav L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	15.5	54.3	155.0	32.7	123.2	59.3	107.5	20.2	30.4
Temperature	°C	12	0.8	11.3	21.2	12.1	20.3	2.0	18.0	18.0	7.3
Suspended Solids	mg/l	12	2	20	83	15	30	30	21	14	16
Dissolved Oxygen	mg/l	12	5.9	11.3	15.0	11.4	9.4	11.5	11.8	9.5	12.2
pH	-	12	8.0	8.3	9.0	8.2	8.8	8.1	8.8	8.1	8.4
Conductivity @ 20°C	µS/cm	12	467	574	713	579	637	645	492	572	588
Alkalinity	mmol/l	12	1.3	3.1	7.1	2.7	4.8	5.4	1.8	2.2	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.47	1.47	0.27	1.18	1.18	0.13	0.32	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.040	0.077	0.181	0.069	0.107	0.050	0.088	0.117	0.053
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	2.27	5.34	8.00	5.40	7.50	7.33	6.60	2.80	4.63
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.039	0.314	0.632	0.315	0.511	0.329	0.111	0.514	0.302
Total Phosphorus	mg/l	12	0.14	0.45	0.71	0.46	0.69	0.47	0.26	0.65	0.41
Sodium (Na ⁺)	mg/l	12	17.9	25.4	33.9	26.3	29.2	29.5	19.0	26.1	26.8
Potassium (K ⁺)	mg/l	12	6.7	10.2	12.8	10.9	11.8	11.0	7.3	10.9	11.5
Calcium (Ca ²⁺)	mg/l	12	51.1	64.4	80.0	63.7	71.8	69.5	56.0	62.5	69.4
Magnesium (Mg ²⁺)	mg/l	12	17.4	20.5	25.5	19.9	24.9	23.0	19.0	20.5	19.4
Chloride (Cl ⁻)	mg/l	12	29	38	51	39	44	45	31	38	40
Sulphate (SO ₄ ²⁻)	mg/l	12	86	109	146	108	117	123	102	105	105
Iron (Fe)	mg/l	11	0.16	0.29	0.42	0.30	0.37	0.25	0.33	0.30	0.28
Manganese (Mn)	mg/l	11	0.060	0.099	0.160	0.090	0.150	0.115	0.093	0.107	0.087
Zinc (Zn)	µg/l	12	2.5	30.5	132.0	17.5	64.4	31.3	8.5	18.3	63.7
Copper (Cu)	µg/l	12	2.5	4.3	7.1	4.0	5.4	4.2	3.7	3.7	5.5
Chromium (Cr) - total	µg/l	12	0.5	1.7	7.0	1.0	2.5	1.7	0.7	3.3	1.0
Lead (Pb)	µg/l	12	0.5	1.7	6.5	1.0	3.0	2.0	0.5	1.0	3.5
Cadmium (Cd)	µg/l	12	0.05	0.10	0.40	0.05	0.24	0.12	0.05	0.05	0.18
Mercury (Hg)	µg/l	12	0.05	0.10	0.20	0.10	0.20	0.07	0.12	0.13	0.10
Nickel (Ni)	µg/l	12	0.5	3.4	5.1	3.3	5.0	2.7	3.0	3.7	4.4
Arsenic (As)	µg/l	12	0.1	0.1	0.1						
Aluminium (Al)	µg/l	12	5.0	5.0	5.0						
BOD ₅	mg/l	12	2.3	6.0	12.5	5.2	11.0	3.4	10.9	4.8	4.9
COD _{Cr}	mg/l	12	29.2	37.1	45.8	37.7	41.8	33.1	41.7	35.3	38.1
COD _{Mn}	mg/l	12	6.4	9.1	11.4	9.3	10.8	7.5	10.9	9.3	8.6
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	12	0.010	0.032	0.060	0.030	0.050	0.027	0.033	0.037	0.030
Petroleum hydrocarbons	mg/l	12	0.03	0.05	0.11	0.06	0.08	0.06	0.03	0.06	0.077
AOX	µg/l										
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l	12	0.05	0.20	1.30	0.10	0.29	0.17	0.05	0.47	0.13
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Trichloroethylene	µg/l	12	0.05	0.06	0.10	0.05	0.10	0.08	0.05	0.05	0.05
Tetrachloroethylene	µg/l	12	0.05	0.15	0.90	0.05	0.28	0.43	0.07	0.07	0.05
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.800	5.350	14.000	4.700	10.560	10.333	2.067	4.533	4.467
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.200	2.383	8.000	1.800	5.520	5.600	0.733	1.667	1.533
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	14	18	21						
Macrozoobenthos	sapr.index	2	2.1	2.2	2.2						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	131329 km ²	SK01
Distance from the mouth [km]	1869.0	Altitude	128 m	
Location	Bratislava M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	25	948.0	1979.0	3792.1	1922.6	2732.9	1149.9	2573.6	2177.7	1863.0
Temperature	°C	25	0.1	9.9	19.6	11.7	17.8	1.8	13.0	15.5	7.8
Suspended Solids	mg/l	25	5	21	79	17	38	11	31	23	17
Dissolved Oxygen	mg/l	25	8.4	10.9	14.2	10.6	8.9	13.5	10.3	9.4	10.9
pH	-	25	7.7	8.1	8.6	8.1	8.4	8.0	8.1	8.2	8.1
Conductivity @ 20°C	µS/cm	25	317	395	503	385	472	461	388	348	391
Alkalinity	mmol/l	25	2.7	3.1	3.7	3.0	3.6	3.5	2.8	2.9	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.08	0.29	0.73	0.25	0.47	0.49	0.23	0.23	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.009	0.023	0.046	0.021	0.039	0.030	0.026	0.012	0.028
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.76	2.78	4.88	2.42	4.19	3.88	2.90	1.94	2.46
Organic Nitrogen	mg/l	25	0.01	0.21	0.74	0.10	0.63	0.27	0.29	0.19	0.05
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.027	0.065	0.140	0.061	0.104	0.101	0.050	0.052	0.063
Total Phosphorus	mg/l	25	0.04	0.12	0.41	0.09	0.17	0.22	0.09	0.07	0.10
Sodium (Na ⁺)	mg/l	25	6.0	10.8	21.7	8.7	16.5	16.5	10.9	7.7	8.4
Potassium (K ⁺)	mg/l	25	1.7	2.8	5.0	2.6	4.2	3.9	3.0	2.0	2.6
Calcium (Ca ²⁺)	mg/l	25	42.1	57.5	69.1	55.1	68.1	66.6	55.7	51.1	58.3
Magnesium (Mg ²⁺)	mg/l	25	11.5	15.1	21.9	14.0	18.9	18.4	13.8	13.8	14.7
Chloride (Cl ⁻)	mg/l	25	12	20	33	17	28	28	20	15	17
Sulphate (SO ₄ ²⁻)	mg/l	25	21	35	56	31	51	46	36	27	31
Iron (Fe)	mg/l	25	0.05	0.42	1.30	0.31	0.93	0.37	0.47	0.56	0.24
Manganese (Mn)	mg/l	25	0.020	0.036	0.160	0.025	0.056	0.033	0.037	0.044	0.025
Zinc (Zn)	µg/l	12	10.0	19.9	60.0	10.0	44.5	14.0	10.0	38.7	17.0
Copper (Cu)	µg/l	12	1.4	2.8	5.8	2.7	3.6	3.8	2.3	2.5	2.7
Chromium (Cr) - total	µg/l	12	0.1	0.6	1.5	0.5	1.3	0.4	0.6	1.1	0.2
Lead (Pb)	µg/l	12	0.1	1.5	5.2	0.6	3.7	2.1	0.4	2.7	0.7
Cadmium (Cd)	µg/l	12	0.01	0.03	0.11	0.01	0.08	0.01	0.01	0.03	0.07
Mercury (Hg)	µg/l	12	0.05	0.05	0.05						
Nickel (Ni)	µg/l	12	1.2	2.5	4.6	2.3	4.1	2.6	3.2	2.8	1.5
Arsenic (As)	µg/l	12	0.5	0.6	1.2	0.5	0.5	0.5	0.7	0.5	0.5
Aluminium (Al)	µg/l										
BOD ₅	mg/l	25	0.7	2.5	5.4	2.3	4.3	2.9	2.5	3.0	1.6
COD _{Cr}	mg/l	25	6.9	12.0	23.0	11.2	17.0	12.0	14.7	10.5	10.2
COD _{Mn}	mg/l	25	2.4	3.5	5.9	3.4	4.6	3.5	3.9	3.4	3.2
DOC	mg/l										
Phenol index	mg/l	25	0.001	0.016	0.130	0.005	0.047	0.030	0.005	0.015	0.016
Anionic active surfactants	mg/l	25	0.005	0.017	0.035	0.018	0.027	0.025	0.018	0.010	0.015
Petroleum hydrocarbons	mg/l	23	0.01	0.02	0.08	0.01	0.04	0.02	0.02	0.02	0.005
AOX	µg/l										
Lindane	µg/l	12	0.003	0.004	0.009	0.003	0.007	0.004	0.004	0.003	0.005
pp' DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.03	0.05	0.30	0.03	0.03	0.03	0.12	0.03	0.03
Chloroform	µg/l	12	0.25	1.98	13.50	0.25	3.63	4.67	1.28	1.40	0.57
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	25	1.800	18.328	66.000	15.000	27.600	14.667	25.357	18.129	13.160
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	25	0.700	5.028	15.000	4.000	9.600	7.167	5.771	3.557	3.480
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	0.8	12.5	37.9	9.5	27.7	12.0	19.4	11.8	4.2

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	132168 km ²	SK02
Distance from the mouth [km]	1806.0	Altitude	108 m	
Location	Medvedov/Medve M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	25	916.5	1976.6	4150.9	1836.8	2936.2	1151.2	2710.8	2065.5	1856.5
Temperature	°C	25	0.6	10.7	21.5	12.4	19.2	2.4	13.6	17.5	8.9
Suspended Solids	mg/l	25	1	15	35	12	28	11	16	24	8
Dissolved Oxygen	mg/l	25	8.0	11.0	16.0	10.4	13.7	13.9	10.5	9.3	10.5
pH	-	25	7.8	8.1	8.6	8.1	8.0	8.1	8.2	8.1	8.1
Conductivity @ 20°C	µS/cm	25	334	386	468	364	456	438	378	352	385
Alkalinity	mmol/l	25	2.8	3.2	4.1	3.1	3.6	3.7	3.0	3.0	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.09	0.23	0.55	0.21	0.36	0.30	0.22	0.21	0.17
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.010	0.023	0.040	0.024	0.035	0.029	0.024	0.012	0.026
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.49	2.47	3.93	2.26	3.59	3.43	2.54	1.75	2.14
Organic Nitrogen	mg/l	25	0.01	0.13	0.47	0.08	0.34	0.11	0.24	0.10	0.03
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.036	0.062	0.102	0.061	0.080	0.075	0.046	0.064	0.065
Total Phosphorus	mg/l	25	0.05	0.11	0.37	0.09	0.14	0.19	0.08	0.08	0.08
Sodium (Na ⁺)	mg/l	25	5.8	10.4	19.3	9.1	17.0	15.0	11.4	7.7	7.5
Potassium (K ⁺)	mg/l	25	1.6	2.6	4.4	2.5	3.2	3.2	2.8	2.0	2.2
Calcium (Ca ²⁺)	mg/l	25	50.1	57.3	70.1	55.1	67.1	65.8	54.1	52.9	56.8
Magnesium (Mg ²⁺)	mg/l	25	11.5	15.4	23.7	15.2	17.4	17.1	15.0	13.9	15.5
Chloride (Cl ⁻)	mg/l	25	12	19	30	17	27	26	19	15	15
Sulphate (SO ₄ ²⁻)	mg/l	25	20	31	45	31	41	40	32	26	27
Iron (Fe)	mg/l	25	0.04	0.24	0.58	0.21	0.39	0.15	0.31	0.27	0.23
Manganese (Mn)	mg/l	25	0.020	0.040	0.280	0.025	0.056	0.033	0.070	0.029	0.025
Zinc (Zn)	µg/l	12	10.0	17.7	60.0	10.0	29.1	16.7	10.0	30.3	13.7
Copper (Cu)	µg/l	12	1.1	4.2	15.8	2.0	8.4	4.5	1.8	6.2	4.3
Chromium (Cr) - total	µg/l	12	0.1	0.3	0.7	0.3	0.7	0.4	0.4	0.3	0.4
Lead (Pb)	µg/l	12	0.1	0.7	3.1	0.5	1.2	0.5	0.3	1.5	0.6
Cadmium (Cd)	µg/l	12	0.01	0.02	0.08	0.01	0.03	0.01	0.02	0.01	0.04
Mercury (Hg)	µg/l	12	0.05	0.05	0.05						
Nickel (Ni)	µg/l	12	0.8	2.3	3.6	2.2	3.0	2.6	2.5	2.3	1.7
Arsenic (As)	µg/l	12	0.5	0.5	0.5						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	25	0.5	2.5	4.2	2.6	3.7	2.4	3.1	2.4	1.9
COD _{Cr}	mg/l	25	6.4	10.4	19.2	10.3	13.0	12.2	11.3	9.4	8.4
COD _{Mn}	mg/l	25	2.3	3.4	5.4	3.3	4.2	3.4	3.8	3.2	3.1
DOC	mg/l										
Phenol index	mg/l	25	0.001	0.006	0.028	0.005	0.009	0.010	0.005	0.005	0.005
Anionic active surfactants	mg/l	25	0.005	0.022	0.063	0.020	0.039	0.022	0.021	0.014	0.032
Petroleum hydrocarbons	mg/l	23	0.01	0.02	0.13	0.01	0.02	0.03	0.01	0.01	0.005
AOX	µg/l										
Lindane	µg/l	10	0.003	0.003	0.010	0.003	0.003	0.003	0.005	0.003	0.003
pp DDT	µg/l	11	0.005	0.005	0.005						
Atrazine	µg/l	12	0.03	0.03	0.03						
Chloroform	µg/l	12	0.25	2.22	16.10	0.25	3.16	1.23	6.28	1.10	0.25
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l	12	0.05	0.54	5.90	0.05	0.05	0.05	0.05	2.00	0.05
Total Coliforms (37°C)	x10 ³ CFU/100 ml	25	0.700	3.968	15.500	3.000	7.220	3.067	5.571	3.117	3.850
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	25	0.300	1.256	2.900	1.200	2.200	1.117	1.743	0.733	1.350
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	1.6	15.7	68.7	10.7	28.0	21.1	24.8	12.5	2.9

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	151961 km ²	SK03
Distance from the mouth [km]	1768.0	Altitude	103 m	
Location	Komarno/Komarom M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	25	977.5	2036.2	3900.3	1879.3	2841.5	1234.1	2727.1	2114.5	1954.0
Temperature	°C	25	0.0	10.7	21.6	12.3	19.2	1.8	13.8	17.8	8.7
Suspended Solids	mg/l	25	2	16	39	13	28	10	20	23	12
Dissolved Oxygen	mg/l	25	8.1	10.7	15.8	10.3	8.4	13.3	10.4	9.0	10.2
pH	-	25	7.9	8.1	8.7	8.1	8.3	8.1	8.1	8.2	8.1
Conductivity @ 20°C	µS/cm	25	364	426	560	415	491	484	419	380	433
Alkalinity	mmol/l	23	2.9	3.3	4.4	3.1	3.9	3.8	3.1	3.1	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.13	0.28	0.63	0.26	0.45	0.42	0.26	0.22	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.010	0.027	0.043	0.027	0.039	0.032	0.030	0.017	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.67	2.76	4.33	2.42	4.19	4.03	2.74	1.92	2.36
Organic Nitrogen	mg/l	24	0.01	0.15	0.74	0.05	0.37	0.13	0.34	0.07	0.04
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.019	0.067	0.110	0.072	0.091	0.089	0.048	0.058	0.076
Total Phosphorus	mg/l	25	0.03	0.12	0.39	0.10	0.16	0.21	0.08	0.07	0.10
Sodium (Na ⁺)	mg/l	25	6.5	14.3	29.3	13.6	18.2	19.8	15.1	11.0	11.3
Potassium (K ⁺)	mg/l	25	1.8	3.2	4.5	3.3	4.2	4.0	3.5	2.5	2.9
Calcium (Ca ²⁺)	mg/l	23	50.1	59.3	80.2	56.1	75.4	76.2	56.0	53.3	58.1
Magnesium (Mg ²⁺)	mg/l	23	14.0	17.7	26.1	16.4	22.9	19.6	18.5	15.0	18.2
Chloride (Cl ⁻)	mg/l	23	12	21	38	20	26	31	21	17	19
Sulphate (SO ₄ ²⁻)	mg/l	23	28	43	66	42	60	61	45	33	39
Iron (Fe)	mg/l	25	0.06	0.36	1.25	0.27	0.61	0.20	0.55	0.39	0.28
Manganese (Mn)	mg/l	25	0.020	0.032	0.140	0.025	0.046	0.049	0.025	0.030	0.025
Zinc (Zn)	µg/l	12	10.0	18.5	38.0	14.0	32.7	16.7	10.0	29.7	17.7
Copper (Cu)	µg/l	12	1.2	6.8	23.0	3.8	19.1	5.5	1.9	8.1	11.8
Chromium (Cr) - total	µg/l	12	0.1	0.5	0.9	0.5	0.8	0.4	0.6	0.3	0.6
Lead (Pb)	µg/l	12	0.1	0.5	1.3	0.3	1.0	0.2	0.1	0.8	0.7
Cadmium (Cd)	µg/l	12	0.01	0.02	0.12	0.02	0.03	0.01	0.02	0.02	0.05
Mercury (Hg)	µg/l	12	0.05	0.05	0.05						
Nickel (Ni)	µg/l	12	0.1	1.8	4.2	1.8	2.7	1.9	2.9	1.6	0.8
Arsenic (As)	µg/l	12	0.5	0.5	0.5						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	25	1.0	2.7	4.4	2.5	3.9	2.7	3.2	2.4	2.2
COD _{Cr}	mg/l	25	8.5	12.6	20.1	12.0	16.8	14.5	14.2	10.2	11.1
COD _{Mn}	mg/l	25	2.6	3.6	5.7	3.4	4.5	3.9	3.9	3.4	3.3
DOC	mg/l										
Phenol index	mg/l	25	0.001	0.012	0.155	0.005	0.013	0.033	0.005	0.006	0.005
Anionic active surfactants	mg/l	24	0.004	0.030	0.235	0.022	0.037	0.062	0.026	0.010	0.021
Petroleum hydrocarbons	mg/l	22	0.01	0.03	0.38	0.01	0.03	0.02	0.08	0.01	0.005
AOX	µg/l										
Lindane	µg/l	11	0.003	0.004	0.010	0.003	0.006	0.003	0.005	0.003	0.004
pp DDT	µg/l	12	0.005	0.005	0.005						
Atrazine	µg/l	12	0.03	0.05	0.20	0.03	0.06	0.04	0.08	0.04	0.03
Chloroform	µg/l	12	0.25	4.89	31.10	0.25	20.11	0.25	10.53	7.85	0.92
Carbon tetrachloride	µg/l	12	0.05	0.05	0.05						
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l	12	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	25	16.000	108.360	#####	63.000	#####	30.833	55.714	213.500	142.167
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	25	5.500	25.064	65.000	23.000	44.800	10.933	18.857	40.500	31.000
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	1.6	18.0	63.2	16.2	36.7	21.8	26.9	18.0	3.6

* in case of dissolved oxygen C10 was calculated

River	/Vah	Catchment	19661 km ²	SK04
Distance from the mouth [km]	1.0	Altitude	106 m	
Location	Komarno M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	25	0.0	11.2	22.5	10.2	21.1	1.8	14.2	18.4	8.2
Suspended Solids	mg/l	25	3	26	208	17	32	16	53	18	10
Dissolved Oxygen	mg/l	25	5.2	10.1	13.8	10.0	8.3	12.7	9.3	9.3	9.3
pH	-	25	7.5	8.0	8.5	8.0	8.3	7.9	7.9	8.2	8.0
Conductivity @ 20°C	µS/cm	25	324	463	623	464	543	531	462	412	455
Alkalinity	mmol/l	25	2.7	3.6	4.4	3.5	4.3	4.1	3.4	3.3	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	25	0.29	0.63	1.18	0.61	0.99	0.97	0.52	0.46	0.59
Nitrite-N (NO ₂ ⁻ -N)	mg/l	25	0.022	0.046	0.103	0.045	0.064	0.028	0.057	0.040	0.062
Nitrate-N (NO ₃ ⁻ -N)	mg/l	25	1.54	2.41	3.43	2.33	3.26	3.10	2.62	1.77	2.20
Organic Nitrogen	mg/l	25	0.01	0.27	1.20	0.15	0.59	0.35	0.38	0.23	0.08
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	25	0.011	0.135	0.280	0.141	0.186	0.171	0.153	0.070	0.159
Total Phosphorus	mg/l	25	0.07	0.24	0.67	0.21	0.41	0.38	0.24	0.13	0.23
Sodium (Na ⁺)	mg/l	25	6.2	15.8	28.6	16.2	22.2	22.1	15.5	12.8	12.9
Potassium (K ⁺)	mg/l	25	2.4	3.7	4.9	3.7	4.6	4.3	3.9	3.1	3.7
Calcium (Ca ²⁺)	mg/l	25	46.1	66.4	81.2	66.1	79.4	76.2	66.7	58.8	64.7
Magnesium (Mg ²⁺)	mg/l	25	14.0	18.3	29.2	16.4	22.3	21.8	18.0	16.3	17.3
Chloride (Cl ⁻)	mg/l	25	9	24	37	24	31	32	23	20	20
Sulphate (SO ₄ ²⁻)	mg/l	25	33	52	89	50	63	63	53	43	50
Iron (Fe)	mg/l	25	0.09	0.86	12.15	0.40	0.83	0.37	2.15	0.41	0.26
Manganese (Mn)	mg/l	25	0.025	0.116	0.860	0.060	0.232	0.163	0.184	0.051	0.055
Zinc (Zn)	µg/l	6	10.0	17.7	30.0	15.5	27.5	30.0	10.0	25.0	15.5
Copper (Cu)	µg/l	6	1.6	2.0	2.5	2.1	2.4	2.5	2.0	2.2	1.8
Chromium (Cr) - total	µg/l	6	0.2	0.7	1.0	0.7	1.0	0.8	0.8	0.4	0.6
Lead (Pb)	µg/l	6	0.1	0.6	1.4	0.5	1.2	0.5	0.3	1.4	0.5
Cadmium (Cd)	µg/l	6	0.01	0.05	0.17	0.03	0.12	0.01	0.09	0.07	0.03
Mercury (Hg)	µg/l	6	0.05	0.06	0.10	0.05	0.08	0.05	0.05	0.05	0.08
Nickel (Ni)	µg/l	6	1.4	3.5	7.8	2.1	6.9	1.4	6.9	1.8	2.1
Arsenic (As)	µg/l	6	0.5	1.0	1.7	0.9	1.6	0.5	1.1	1.4	0.9
Aluminium (Al)	µg/l										
BOD ₅	mg/l	25	0.9	4.4	13.0	4.3	6.5	4.0	5.3	5.3	2.6
COD _{Cr}	mg/l	25	9.0	17.6	54.5	15.4	20.7	16.8	23.2	15.8	13.4
COD _{Mn}	mg/l	25	2.9	5.6	41.3	4.1	5.4	4.0	9.4	4.7	3.5
DOC	mg/l										
Phenol index	mg/l	25	0.001	0.015	0.125	0.005	0.031	0.035	0.005	0.006	0.019
Anionic active surfactants	mg/l	25	0.001	0.032	0.069	0.035	0.044	0.037	0.029	0.020	0.047
Petroleum hydrocarbons	mg/l	23	0.01	0.02	0.08	0.02	0.03	0.03	0.02	0.02	0.013
AOX	µg/l										
Lindane	µg/l	4	0.003	0.003	0.003						
pp' DDT	µg/l	4	0.005	0.005	0.005						
Atrazine	µg/l	4	0.03	0.07	0.16						
Chloroform	µg/l	4	0.25	5.15	10.70						
Carbon tetrachloride	µg/l	4	0.05	0.05	0.05						
Trichloroethylene	µg/l	4	0.05	0.05	0.05						
Tetrachloroethylene	µg/l	4	0.05	0.05	0.05						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	25	5.000	121.040	#####	111.000	214.000	103.500	100.286	142.143	141.600
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	25	0.600	38.912	82.000	31.000	72.600	46.333	37.886	30.229	43.600
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	25	1.1	24.3	128.3	10.2	66.0	7.9	25.0	51.8	4.2

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	131605 km ²	H01
Distance from the mouth [km]	1806.0	Altitude	108 m	
Location	Medve/Medvedov M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	876.0	1539.3	2480.0	1460.0	2044.0	1007.0	1893.3	1833.3	1423.3
Temperature	°C	12	0.2	11.1	30.0	10.9	20.0	1.7	13.3	20.7	8.6
Suspended Solids	mg/l	12	13	30	58	24	45	17	41	36	24
Dissolved Oxygen	mg/l	12	7.2	9.6	12.4	9.2	7.6	12.0	8.9	7.5	9.9
pH	-	12	7.8	8.2	8.7	8.3	8.3	8.1	8.3	8.3	8.2
Conductivity @ 20°C	µS/cm	12	324	386	466	371	454	446	375	337	385
Alkalinity	mmol/l	12	2.8	3.2	3.8	3.1	3.5	3.6	3.0	3.0	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.09	0.20	0.07	0.19	0.19	0.07	0.03	0.08
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.025	0.049	0.027	0.035	0.030	0.029	0.017	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.38	2.39	4.34	2.35	2.94	2.90	3.01	1.52	2.12
Organic Nitrogen	mg/l	12	0.18	0.85	2.05	0.67	1.70	0.45	1.28	1.27	0.42
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.016	0.070	0.245	0.052	0.115	0.130	0.030	0.064	0.056
Total Phosphorus	mg/l	12	0.04	0.10	0.27	0.08	0.14	0.15	0.05	0.09	0.09
Sodium (Na ⁺)	mg/l	12	8.5	12.4	19.0	10.5	18.9	18.2	12.6	9.3	9.7
Potassium (K ⁺)	mg/l	12	2.0	2.8	4.4	2.4	4.0	3.6	3.1	2.4	2.3
Calcium (Ca ²⁺)	mg/l	12	48.0	56.0	64.0	57.0	61.8	60.7	54.7	52.0	56.7
Magnesium (Mg ²⁺)	mg/l	12	7.3	13.9	19.5	13.4	17.0	16.6	13.0	13.4	12.6
Chloride (Cl ⁻)	mg/l	12	18	24	34	22	32	31	24	19	23
Sulphate (SO ₄ ²⁻)	mg/l	12	36	41	54	41	48	45	45	39	36
Iron (Fe)	mg/l	12	0.10	0.24	0.80	0.21	0.24	0.19	0.42	0.16	0.20
Manganese (Mn)	mg/l	12	0.020	0.063	0.110	0.065	0.080	0.067	0.077	0.047	0.063
Zinc (Zn)	µg/l	9	37.0	42.8	52.0	41.0	49.6	38.5	49.3	41.0	39.0
Copper (Cu)	µg/l	9	2.3	12.2	37.8	6.3	29.0	8.2	3.3	15.4	26.2
Chromium (Cr) - total	µg/l	9	0.5	2.6	6.5	1.9	5.0	2.0	2.7	3.3	2.5
Lead (Pb)	µg/l	9	0.5	2.3	4.2	2.6	3.5	2.3	2.4	1.7	3.0
Cadmium (Cd)	µg/l	9	0.50	0.60	1.40	0.50	0.68	0.50	0.50	0.50	0.95
Mercury (Hg)	µg/l	9	0.50	0.50	0.50						
Nickel (Ni)	µg/l	9	0.5	2.2	6.9	1.0	6.8	3.7	3.1	1.1	0.5
Arsenic (As)	µg/l	5	0.5	0.5	0.5						
Aluminium (Al)	µg/l	9	62.0	106.0	162.0	100.0	145.2	115.5	132.0	100.0	63.5
BOD ₅	mg/l	12	2.1	2.9	4.4	2.7	4.2	3.2	3.6	2.3	2.6
COD _{Cr}	mg/l	12	10.0	12.8	16.0	13.5	14.9	12.3	15.0	12.7	11.0
COD _{Mn}	mg/l	12	2.4	3.5	4.4	3.5	4.4	3.6	4.3	3.2	2.7
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.003	0.003						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.07	0.22	0.55	0.19	0.32	0.17	0.37	0.23	0.120
AOX	µg/l	1		34.0							
Lindane	µg/l	9	0.005	0.006	0.010	0.005	0.006	0.005	0.007	0.005	0.005
pp DDT	µg/l										
Atrazine	µg/l	10	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	11	0.230	2.656	9.200	2.200	3.500	1.630	4.467	1.677	2.950
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.200	0.683	1.300	0.650	1.190	0.567	0.867	0.300	1.000
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.010	0.101	0.400	0.060	0.283	0.163	0.073	0.060	0.107
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	11	1.2	15.1	47.4	13.0	36.7	16.2	27.3	11.0	1.2

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	150820 km ²	H02
Distance from the mouth [km]	1768.0	Altitude	101 m	
Location	Komarom/Komarno M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1070.0	1887.5	2720.0	2005.0	2410.0	1256.7	2283.3	2210.0	1800.0
Temperature	°C	12	1.2	10.6	21.3	10.7	18.5	2.4	14.1	17.7	8.2
Suspended Solids	mg/l	12	20	36	67	33	60	28	52	38	27
Dissolved Oxygen	mg/l	12	7.5	9.6	14.5	9.0	7.7	11.4	9.1	7.7	10.2
pH	-	12	8.0	8.3	8.8	8.3	8.7	8.2	8.5	8.4	8.3
Conductivity @ 20°C	µS/cm	12	330	397	489	376	479	451	392	345	399
Alkalinity	mmol/l	12	2.9	3.3	3.9	3.3	3.7	3.7	3.2	3.0	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.11	0.29	0.07	0.24	0.25	0.06	0.03	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.027	0.049	0.029	0.038	0.033	0.030	0.019	0.028
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.49	2.67	3.82	2.74	3.51	3.41	3.10	1.71	2.47
Organic Nitrogen	mg/l	12	0.23	0.72	1.84	0.48	1.48	0.39	1.26	0.83	0.39
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.023	0.080	0.254	0.054	0.163	0.158	0.037	0.072	0.054
Total Phosphorus	mg/l	12	0.04	0.10	0.28	0.08	0.18	0.18	0.05	0.10	0.09
Sodium (Na ⁺)	mg/l	12	9.5	13.3	22.6	10.8	18.9	19.4	13.5	9.9	10.3
Potassium (K ⁺)	mg/l	12	2.0	2.9	4.4	2.8	4.0	3.7	3.3	2.3	2.4
Calcium (Ca ²⁺)	mg/l	12	48.0	56.7	68.0	55.0	65.6	62.0	55.3	54.7	54.7
Magnesium (Mg ²⁺)	mg/l	12	8.5	15.1	21.9	15.2	19.3	19.8	14.6	11.8	14.2
Chloride (Cl ⁻)	mg/l	12	19	26	38	24	31	33	25	20	23
Sulphate (SO ₄ ²⁻)	mg/l	12	36	43	57	40	56	51	47	38	37
Iron (Fe)	mg/l	12	0.05	0.21	0.40	0.18	0.34	0.20	0.23	0.21	0.18
Manganese (Mn)	mg/l	12	0.020	0.078	0.260	0.070	0.125	0.073	0.117	0.060	0.060
Zinc (Zn)	µg/l	10	9.0	36.3	48.0	38.5	48.0	35.5	47.0	28.7	32.5
Copper (Cu)	µg/l	10	0.5	13.3	94.0	4.1	18.3	5.2	5.1	35.2	0.5
Chromium (Cr) - total	µg/l	10	0.5	1.7	4.2	1.1	2.9	0.8	1.4	2.7	1.6
Lead (Pb)	µg/l	10	0.5	2.1	6.0	1.7	5.4	3.6	2.7	1.7	0.5
Cadmium (Cd)	µg/l	10	0.50	0.74	1.40	0.50	1.31	0.85	1.07	0.50	0.50
Mercury (Hg)	µg/l	10	0.50	0.50	0.50						
Nickel (Ni)	µg/l	10	0.5	2.3	8.8	0.8	5.5	2.8	0.5	4.9	0.9
Arsenic (As)	µg/l	5	0.5	0.5	0.5						
Aluminium (Al)	µg/l	10	65.0	96.4	153.0	98.5	112.5	114.5	99.7	100.3	67.5
BOD ₅	mg/l	12	1.8	2.7	4.2	2.6	3.8	3.0	2.7	2.5	2.5
COD _{Cr}	mg/l	12	10.0	13.9	18.0	14.0	16.9	15.0	16.0	11.7	13.0
COD _{Mn}	mg/l	12	2.7	3.6	4.9	3.4	4.7	4.0	4.2	3.2	3.0
DOC	mg/l										
Phenol index	mg/l	11	0.003	0.003	0.003						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.06	0.19	0.47	0.18	0.21	0.15	0.26	0.20	0.137
AOX	µg/l										
Lindane	µg/l	2	0.012	0.018	0.023						
pp' DDT	µg/l										
Atrazine	µg/l	2	0.03	0.04	0.05						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	1.300	23.325	160.000	5.400	34.300	2.967	13.400	56.933	20.000
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	11	0.100	2.964	14.000	0.800	7.500	0.567	3.067	7.250	2.400
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.010	0.343	1.200	0.100	0.870	0.600	0.173	0.333	0.267
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	1.2	15.4	49.7	13.0	41.4	20.9	26.8	9.9	3.9

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1170.0	2097.8	3883.0	2135.0	2666.0	1336.7	2817.7	2396.7	1840.0
Temperature	°C	12	0.0	9.9	22.0	10.7	17.8	0.9	13.6	17.5	7.5
Suspended Solids	mg/l	12	4	28	112	20	61	13	68	22	10
Dissolved Oxygen	mg/l	12	8.6	11.8	14.1	11.9	9.1	13.7	11.3	10.3	11.7
pH	-	12	8.0	8.2	8.7	8.1	8.4	8.1	8.2	8.3	8.2
Conductivity @ 20°C	µS/cm	12	330	431	570	410	519	533	373	363	453
Alkalinity	mmol/l	12	1.8	2.9	4.0	3.1	3.6	3.6	2.0	2.7	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.19	0.54	0.11	0.44	0.45	0.08	0.08	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.024	0.031	0.025	0.031	0.027	0.020	0.025	0.024
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.47	2.49	3.28	2.55	3.28	3.24	2.53	1.62	2.56
Organic Nitrogen	mg/l	12	0.05	0.43	2.28	0.23	0.64	0.32	0.88	0.34	0.19
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.042	0.100	0.150	0.101	0.134	0.115	0.080	0.100	0.106
Total Phosphorus	mg/l	12	0.15	0.20	0.25	0.22	0.24	0.21	0.21	0.22	0.17
Sodium (Na ⁺)	mg/l	12	9.0	15.1	24.0	14.0	19.7	18.3	13.0	13.7	15.3
Potassium (K ⁺)	mg/l	12	2.4	4.0	5.5	4.0	5.0	4.1	3.7	3.8	4.3
Calcium (Ca ²⁺)	mg/l	12	31.4	52.1	69.8	51.0	66.5	64.8	39.3	43.0	61.3
Magnesium (Mg ²⁺)	mg/l	12	6.0	12.6	18.9	13.0	15.4	15.9	10.8	9.0	14.7
Chloride (Cl ⁻)	mg/l	12	16	23	32	22	30	29	18	19	24
Sulphate (SO ₄ ²⁻)	mg/l	12	26	44	80	38	69	57	49	29	41
Iron (Fe)	mg/l	12	0.15	0.23	0.42	0.22	0.33	0.15	0.32	0.24	0.22
Manganese (Mn)	mg/l	12	0.010	0.067	0.140	0.050	0.109	0.043	0.103	0.070	0.050
Zinc (Zn)	µg/l	12	20.0	35.0	100.0	25.0	58.0	20.0	40.0	30.0	50.0
Copper (Cu)	µg/l	12	1.0	3.6	7.0	3.7	5.5	4.5	2.9	3.8	3.3
Chromium (Cr) - total	µg/l	12	0.5	1.4	5.5	0.5	2.4	2.2	1.6	1.1	0.5
Lead (Pb)	µg/l	12	1.4	3.4	10.6	2.2	5.0	5.9	2.9	1.7	3.1
Cadmium (Cd)	µg/l	12	0.50	0.78	2.20	0.50	1.63	1.23	0.90	0.50	0.50
Mercury (Hg)	µg/l	12	0.50	0.50	0.50						
Nickel (Ni)	µg/l	12	1.7	3.0	6.1	2.8	4.0	3.2	3.0	2.5	3.2
Arsenic (As)	µg/l	12	0.5	1.6	2.2	1.6	2.0	1.5	2.1	1.6	1.2
Aluminium (Al)	µg/l	1		10.0							
BOD ₅	mg/l	12	3.1	4.9	8.1	4.5	7.7	5.8	5.5	4.1	4.1
COD _{Cr}	mg/l	12	11.0	17.1	28.0	16.0	23.5	15.0	23.0	16.3	14.0
COD _{Mn}	mg/l	12	3.4	4.7	9.0	4.5	5.3	4.1	6.4	4.6	3.8
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.003	0.003						
Anionic active surfactants	mg/l	12	0.050	0.054	0.100	0.050	0.050	0.050	0.050	0.067	0.050
Petroleum hydrocarbons	mg/l	12	0.01	0.02	0.03	0.02	0.03	0.02	0.02	0.02	0.023
AOX	µg/l	6	10.0	141.8	430.0	38.0	370.0	370.0	35.5		20.0
Lindane	µg/l	4	0.005	0.007	0.012						
pp DDT	µg/l										
Atrazine	µg/l	4	0.03	0.03	0.05						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	1.200	7.517	20.000	5.350	13.700	3.267	6.333	15.000	5.467
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	0.600	2.692	7.500	2.350	4.800	2.067	1.433	3.400	3.867
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.030	0.736	2.700	0.250	2.260	0.800	1.677	0.280	0.187
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	1.7	17.0	51.8	8.3	46.8	15.5	21.6	26.2	4.9

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1170.0	2097.8	3883.0	2135.0	2666.0	1336.7	2817.7	2396.7	1840.0
Temperature	°C	12	0.0	9.8	21.2	10.6	17.5	0.8	13.5	17.3	7.4
Suspended Solids	mg/l	12	4	19	76	14	25	8	41	18	8
Dissolved Oxygen	mg/l	12	9.5	11.9	14.2	11.7	9.7	13.7	11.6	10.6	11.7
pH	-	12	8.0	8.3	8.7	8.2	8.5	8.2	8.3	8.3	8.2
Conductivity @ 20°C	µS/cm	12	350	420	530	405	498	503	400	357	420
Alkalinity	mmol/l	12	2.2	3.1	3.8	3.1	3.6	3.5	2.8	3.0	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.14	0.30	0.11	0.26	0.26	0.11	0.08	0.10
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.024	0.039	0.028	0.037	0.030	0.025	0.011	0.028
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.24	2.60	4.52	2.32	3.71	3.54	2.86	1.66	2.33
Organic Nitrogen	mg/l	12	0.05	0.42	2.29	0.21	0.68	0.37	0.91	0.24	0.16
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.013	0.062	0.098	0.067	0.093	0.074	0.064	0.050	0.061
Total Phosphorus	mg/l	12	0.10	0.14	0.22	0.14	0.17	0.13	0.17	0.14	0.13
Sodium (Na ⁺)	mg/l	12	11.0	14.7	26.0	13.0	17.0	18.0	14.7	12.3	13.7
Potassium (K ⁺)	mg/l	12	2.4	3.4	8.5	2.7	4.7	3.5	4.6	2.6	2.8
Calcium (Ca ²⁺)	mg/l	12	44.0	54.2	69.7	56.0	64.7	64.0	48.6	45.3	59.0
Magnesium (Mg ²⁺)	mg/l	12	10.0	12.8	16.5	12.3	16.0	13.0	12.0	11.3	15.0
Chloride (Cl ⁻)	mg/l	12	18	24	37	23	28	29	25	19	22
Sulphate (SO ₄ ²⁻)	mg/l	12	24	40	54	39	52	49	42	27	40
Iron (Fe)	mg/l	12	0.08	0.20	0.58	0.16	0.28	0.14	0.28	0.19	0.19
Manganese (Mn)	mg/l	12	0.010	0.038	0.060	0.050	0.050	0.017	0.033	0.050	0.050
Zinc (Zn)	µg/l	12	20.0	32.9	100.0	20.0	49.0	20.0	36.7	23.3	51.7
Copper (Cu)	µg/l	12	1.9	3.5	8.7	2.8	6.2	5.9	2.9	2.9	2.2
Chromium (Cr) - total	µg/l	12	0.5	0.9	2.0	0.5	1.5	1.0	1.3	0.7	0.5
Lead (Pb)	µg/l	12	1.4	3.6	7.8	3.1	6.4	5.2	2.5	3.2	3.3
Cadmium (Cd)	µg/l	12	0.50	0.68	1.80	0.50	1.31	0.93	0.80	0.50	0.50
Mercury (Hg)	µg/l	12	0.50	0.50	0.50						
Nickel (Ni)	µg/l	12	0.5	2.3	4.0	2.7	3.0	1.3	2.0	2.7	3.3
Arsenic (As)	µg/l	12	1.0	1.5	2.0	1.5	2.0	1.5	1.8	1.6	1.2
Aluminium (Al)	µg/l	1		39.0							
BOD ₅	mg/l	12	3.2	4.5	8.4	4.3	5.3	6.2	4.2	3.9	3.8
COD _{Cr}	mg/l	12	10.0	15.3	21.0	15.5	17.9	14.7	18.7	14.3	13.3
COD _{Mn}	mg/l	12	2.7	4.1	5.3	4.3	4.9	4.1	4.9	3.9	3.4
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.003	0.003						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.01	0.03	0.06	0.02	0.05	0.02	0.02	0.02	0.033
AOX	µg/l	6	33.0	178.3	410.0	91.5	400.0	400.0	63.0	111.0	33.0
Lindane	µg/l	4	0.005	0.009	0.020						
pp DDT	µg/l										
Atrazine	µg/l	4	0.03	0.06	0.11						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	1.800	11.608	60.000	6.000	19.700	3.000	4.433	32.333	6.667
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	1.400	3.433	7.500	3.000	6.300	2.667	2.367	6.167	2.533
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.010	0.347	0.900	0.250	0.800	0.567	0.303	0.307	0.210
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	2.5	19.1	51.1	14.9	44.9	21.4	28.9	22.2	3.7

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	183350 km ²	H03
Distance from the mouth [km]	1708.0	Altitude	100 m	
Location	Szob R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1170.0	2097.8	3883.0	2135.0	2666.0	1336.7	2817.7	2396.7	1840.0
Temperature	°C	12	0.0	9.7	21.2	10.4	17.4	0.8	13.7	17.2	7.3
Suspended Solids	mg/l	12	8	21	81	16	28	10	42	21	11
Dissolved Oxygen	mg/l	12	9.1	11.7	13.9	12.2	9.3	13.5	11.7	10.2	11.3
pH	-	12	8.0	8.2	8.7	8.2	8.5	8.2	8.3	8.3	8.1
Conductivity @ 20°C	µS/cm	12	350	428	540	410	513	515	408	360	427
Alkalinity	mmol/l	12	2.7	3.2	4.0	3.1	3.4	3.6	3.0	2.9	3.2
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.13	0.30	0.10	0.25	0.25	0.10	0.07	0.09
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.007	0.024	0.037	0.028	0.036	0.029	0.025	0.012	0.031
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.36	2.54	4.18	2.26	3.71	3.60	2.83	1.66	2.07
Organic Nitrogen	mg/l	12	0.05	0.43	2.26	0.28	0.71	0.39	0.88	0.24	0.21
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.063	0.095	0.062	0.088	0.076	0.062	0.055	0.058
Total Phosphorus	mg/l	12	0.08	0.17	0.37	0.15	0.23	0.14	0.21	0.19	0.13
Sodium (Na ⁺)	mg/l	12	12.0	16.2	28.0	14.5	21.5	20.0	14.7	12.7	17.3
Potassium (K ⁺)	mg/l	12	1.0	3.7	9.0	2.5	7.7	3.5	4.1	4.3	2.8
Calcium (Ca ²⁺)	mg/l	12	41.0	54.6	74.4	56.0	64.8	65.3	48.9	45.3	59.0
Magnesium (Mg ²⁺)	mg/l	12	8.0	12.7	16.0	12.8	15.9	13.3	12.7	9.7	15.0
Chloride (Cl ⁻)	mg/l	12	18	24	38	24	28	30	25	19	22
Sulphate (SO ₄ ²⁻)	mg/l	12	24	41	56	41	52	51	44	27	40
Iron (Fe)	mg/l	12	0.10	0.25	1.13	0.16	0.30	0.12	0.48	0.21	0.20
Manganese (Mn)	mg/l	12	0.010	0.040	0.060	0.050	0.050	0.020	0.040	0.050	0.050
Zinc (Zn)	µg/l	12	20.0	42.1	100.0	32.5	79.0	20.0	35.0	66.7	46.7
Copper (Cu)	µg/l	12	1.3	4.0	8.0	3.6	7.4	4.3	5.3	2.9	3.4
Chromium (Cr) - total	µg/l	12	0.5	0.9	2.1	0.5	1.5	1.3	1.4	0.5	0.5
Lead (Pb)	µg/l	12	0.5	2.7	5.6	2.2	4.9	3.7	3.1	1.9	2.2
Cadmium (Cd)	µg/l	12	0.50	0.79	3.30	0.50	1.13	1.67	0.50	0.50	0.50
Mercury (Hg)	µg/l	12	0.50	0.50	0.50						
Nickel (Ni)	µg/l	12	1.0	2.8	6.9	2.7	3.7	2.3	3.9	2.6	2.4
Arsenic (As)	µg/l	12	1.0	1.6	2.4	1.6	2.2	1.5	2.1	1.4	1.4
Aluminium (Al)	µg/l	1		134.0							
BOD ₅	mg/l	12	2.8	4.8	8.4	4.6	5.9	6.4	4.7	4.0	3.9
COD _{Cr}	mg/l	12	10.0	15.3	26.0	15.0	18.0	14.7	19.7	14.7	12.0
COD _{Mn}	mg/l	12	2.6	4.1	5.8	4.2	4.9	4.1	4.8	3.9	3.5
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.003	0.003						
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	12	0.01	0.02	0.05	0.02	0.04	0.02	0.02	0.02	0.030
AOX	µg/l	5	11.0	96.6	390.0	24.0	249.2	390.0	29.0	11.0	24.0
Lindane	µg/l	4	0.005	0.008	0.015						
pp' DDT	µg/l										
Atrazine	µg/l	4	0.03	0.04	0.05						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	1.800	6.992	15.000	4.950	13.900	2.767	3.867	14.000	7.333
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	12	1.600	5.292	15.000	3.100	12.500	2.233	3.433	12.000	3.500
Faecal Streptococci	x10 ³ CFU/100 ml	12	0.020	0.448	1.100	0.350	1.000	0.567	0.707	0.270	0.247
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	2.5	19.3	51.7	12.7	49.3	21.2	30.6	21.9	3.4

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	188700 km ²	H04
Distance from the mouth [km]	1560.0	Altitude	89 m	
Location	Dunafoldvar			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1340.0	2186.7	2980.0	2215.0	2785.0	1563.3	2733.3	2276.7	2173.3
Temperature	°C	12	0.0	11.3	22.6	11.5	21.5	1.3	15.2	19.8	8.9
Suspended Solids	mg/l	9	11	22	36	18	34	17	27	26	11
Dissolved Oxygen	mg/l	12	8.0	10.9	13.9	10.6	8.8	12.9	10.4	9.7	10.6
pH	-	12	7.7	8.1	8.4	8.1	8.3	8.1	8.1	8.0	8.1
Conductivity @ 20°C	µS/cm	12	348	417	545	400	518	508	397	354	409
Alkalinity	mmol/l	9	2.7	3.3	4.1	3.2	4.0	3.8	3.0	2.8	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.12	0.39	0.08	0.30	0.25	0.09	0.04	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.003	0.024	0.040	0.028	0.038	0.033	0.028	0.014	0.022
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.13	2.18	4.00	2.09	2.55	2.42	2.66	1.58	2.06
Organic Nitrogen	mg/l	5	0.05	0.23	0.42	0.21	0.36	0.32	0.27	0.12	
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.005	0.051	0.105	0.053	0.080	0.063	0.032	0.039	0.068
Total Phosphorus	mg/l	12	0.06	0.13	0.20	0.15	0.18	0.18	0.14	0.13	0.07
Sodium (Na ⁺)	mg/l	9	11.2	14.6	22.0	13.0	18.8	17.7	13.6	11.6	14.3
Potassium (K ⁺)	mg/l	9	2.6	3.1	3.6	3.0	3.6	3.4	3.1	2.7	3.0
Calcium (Ca ²⁺)	mg/l	9	44.0	59.3	71.0	62.0	71.0	68.0	57.0	47.5	64.0
Magnesium (Mg ²⁺)	mg/l	9	12.9	16.2	21.0	16.0	20.2	19.0	15.0	13.5	16.5
Chloride (Cl ⁻)	mg/l	9	15	21	32	21	26	26	19	15	21
Sulphate (SO ₄ ²⁻)	mg/l	9	41	56	77	54	73	65	60	41	47
Iron (Fe)	mg/l	5	0.30	0.38	0.48	0.38	0.46	0.30	0.43	0.43	
Manganese (Mn)	mg/l	5	0.001	0.028	0.040	0.030	0.040	0.015	0.040	0.035	
Zinc (Zn)	µg/l	9	2.0	8.1	24.0	4.0	19.2	4.3	5.3	10.0	24.0
Copper (Cu)	µg/l	9	1.7	3.0	5.4	2.7	4.6	2.5	4.4	2.0	2.7
Chromium (Cr) - total	µg/l	9	0.5	0.6	1.3	0.5	1.1	0.7	0.5	0.5	1.3
Lead (Pb)	µg/l	9	0.5	0.7	1.4	0.5	1.2	0.5	1.0	0.5	0.5
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l	9	0.50	0.50	0.50						
Nickel (Ni)	µg/l	9	0.5	0.5	0.5						
Arsenic (As)	µg/l	3	1.4	1.8	2.3						
Aluminium (Al)	µg/l	9	10.0	26.4	64.0	25.0	36.0	19.7	21.7	25.0	64.0
BOD ₅	mg/l	12	1.6	4.6	9.5	4.4	9.0	4.8	7.2	4.2	2.3
COD _{Cr}	mg/l	12	12.0	16.8	25.0	16.0	24.4	20.0	20.0	14.3	13.0
COD _{Mn}	mg/l	12	3.0	4.4	6.4	4.6	5.8	4.8	5.5	4.3	3.2
DOC	mg/l										
Phenol index	mg/l	9	0.003	0.003	0.006	0.003	0.003	0.004	0.003	0.003	0.003
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	9	0.01	0.05	0.15	0.03	0.13	0.05	0.05	0.02	0.150
AOX	µg/l										
Lindane	µg/l	1		0.100							
pp DDT	µg/l										
Atrazine	µg/l	1		1.00							
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.400	19.392	110.000	7.650	45.700	6.867	3.600	46.100	21.000
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	1.0	39.3	113.0	29.0	99.0	38.3	58.3	55.0	5.5

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	211503 km ²	H05
Distance from the mouth [km]	1435.0	Altitude	79 m	
Location	Hercegszanto L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1240.0	2128.8	3025.0	2200.0	2743.0	1416.7	2701.7	2303.3	2093.3
Temperature	°C	12	0.0	11.0	22.2	11.4	21.3	0.6	14.7	20.1	8.7
Suspended Solids	mg/l	9	6	22	52	15	45	10	25	41	10
Dissolved Oxygen	mg/l	12	8.5	11.4	15.3	11.1	9.5	13.9	11.5	9.7	10.5
pH	-	12	8.0	8.2	8.6	8.2	8.5	8.1	8.2	8.3	8.1
Conductivity @ 20°C	µS/cm	12	344	408	515	393	499	482	393	351	404
Alkalinity	mmol/l	9	2.5	3.1	3.9	3.1	3.7	3.6	2.8	2.7	3.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.14	0.43	0.07	0.34	0.31	0.09	0.04	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.014	0.030	0.049	0.027	0.046	0.040	0.033	0.015	0.031
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.13	2.37	3.62	2.09	3.30	3.35	2.30	1.58	2.25
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.050	0.100	0.049	0.088	0.070	0.035	0.034	0.061
Total Phosphorus	mg/l	12	0.07	0.13	0.19	0.14	0.17	0.15	0.15	0.15	0.08
Sodium (Na ⁺)	mg/l	9	10.7	13.4	20.0	12.0	17.6	16.0	12.3	11.4	13.3
Potassium (K ⁺)	mg/l	9	2.4	3.0	3.6	2.9	3.6	3.3	2.9	2.8	2.9
Calcium (Ca ²⁺)	mg/l	9	46.0	57.5	70.0	60.0	69.2	66.3	53.0	47.9	64.0
Magnesium (Mg ²⁺)	mg/l	9	13.0	14.7	18.0	14.0	18.0	16.7	13.8	13.0	14.5
Chloride (Cl ⁻)	mg/l	9	14	19	30	18	25	24	18	15	20
Sulphate (SO ₄ ²⁻)	mg/l	9	42	55	83	47	73	60	60	44	47
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	9	2.0	11.1	38.0	7.0	26.0	8.0	4.3	12.5	38.0
Copper (Cu)	µg/l	9	1.2	3.8	9.1	3.7	6.2	4.2	3.9	3.0	4.2
Chromium (Cr) - total	µg/l	9	0.5	0.6	1.2	0.5	0.6	0.5	0.5	0.5	1.2
Lead (Pb)	µg/l	9	0.5	0.8	1.8	0.5	1.4	0.5	1.0	0.5	1.8
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l	9	0.50	0.50	0.50						
Nickel (Ni)	µg/l	9	0.5	0.6	1.2	0.5	0.6	0.5	0.7	0.5	0.5
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	9	10.0	30.4	66.0	22.0	60.4	14.0	36.7	28.0	66.0
BOD ₅	mg/l	12	2.0	3.7	5.8	3.4	5.1	4.2	4.6	2.5	3.3
COD _{Cr}	mg/l	12	13.0	18.1	26.0	18.0	23.9	19.3	20.7	18.3	14.0
COD _{Mn}	mg/l	12	3.0	4.9	6.9	5.1	6.4	4.7	5.7	5.6	3.5
DOC	mg/l										
Phenol index	mg/l	9	0.003	0.004	0.009	0.003	0.006	0.005	0.003	0.004	0.003
Anionic active surfactants	mg/l	12	0.050	0.050	0.050						
Petroleum hydrocarbons	mg/l	9	0.02	0.05	0.10	0.04	0.07	0.05	0.05	0.03	0.100
AOX	µg/l										
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	1.200	14.508	48.000	8.650	26.900	7.600	5.867	17.167	27.400
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	2.0	35.6	84.0	31.5	74.9	28.7	58.7	45.3	9.8

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	211503 km ²	H05
Distance from the mouth [km]	1435.0	Altitude	79 m	
Location	Hercegszanto M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1240.0	2128.8	3025.0	2200.0	2743.0	1416.7	2701.7	2303.3	2093.3
Temperature	°C	12	0.0	11.0	22.2	11.4	21.3	0.6	14.7	20.1	8.7
Suspended Solids	mg/l	9	8	24	43	23	40	13	35	33	8
Dissolved Oxygen	mg/l	12	8.5	11.2	13.9	10.9	9.7	13.3	11.0	9.6	10.8
pH	-	12	8.0	8.2	8.6	8.2	8.5	8.1	8.2	8.3	8.2
Conductivity @ 20°C	µS/cm	12	342	405	510	392	498	479	386	350	404
Alkalinity	mmol/l	9	2.6	3.2	3.9	3.1	3.7	3.6	2.9	2.8	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.13	0.39	0.07	0.34	0.30	0.08	0.04	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.031	0.049	0.027	0.046	0.045	0.033	0.016	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.13	2.21	3.21	2.10	2.96	2.89	2.24	1.51	2.19
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.007	0.048	0.100	0.057	0.075	0.063	0.030	0.032	0.065
Total Phosphorus	mg/l	12	0.06	0.13	0.18	0.14	0.18	0.15	0.14	0.15	0.08
Sodium (Na ⁺)	mg/l	9	10.7	13.7	20.0	12.0	17.6	16.3	12.8	11.4	13.3
Potassium (K ⁺)	mg/l	9	2.4	3.0	3.6	3.0	3.6	3.4	2.9	2.7	3.0
Calcium (Ca ²⁺)	mg/l	9	45.0	57.7	70.0	60.0	68.4	66.0	54.0	47.5	64.0
Magnesium (Mg ²⁺)	mg/l	9	12.9	15.3	20.0	14.5	19.2	17.7	14.3	13.2	15.0
Chloride (Cl ⁻)	mg/l	9	15	20	30	18	25	24	18	16	20
Sulphate (SO ₄ ²⁻)	mg/l	9	42	56	81	48	72	62	62	42	48
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	9	2.0	15.9	45.0	9.0	41.8	13.0	5.3	23.5	41.0
Copper (Cu)	µg/l	9	1.8	3.9	8.9	2.9	7.1	4.5	3.9	3.5	2.9
Chromium (Cr) - total	µg/l	9	0.5	0.6	1.0	0.5	0.6	0.5	0.5	0.5	1.0
Lead (Pb)	µg/l	9	0.5	1.0	1.5	1.2	1.5	0.5	1.3	1.3	1.3
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l	9	0.50	0.50	0.50						
Nickel (Ni)	µg/l	9	0.5	0.6	1.5	0.5	0.7	0.5	0.8	0.5	0.5
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	8	10.0	25.8	62.0	15.0	49.4	10.0	27.0	30.0	62.0
BOD ₅	mg/l	11	2.0	3.6	5.3	3.9	4.6	4.2	4.7	2.6	3.2
COD _{Cr}	mg/l	12	13.0	17.8	25.0	17.0	23.6	18.7	19.7	17.7	15.3
COD _{Mn}	mg/l	12	3.2	4.9	7.4	5.1	6.3	4.7	5.9	5.4	3.5
DOC	mg/l										
Phenol index	mg/l	9	0.003	0.004	0.014	0.003	0.008	0.005	0.003	0.008	0.003
Anionic active surfactants	mg/l	12	0.050	0.058	0.140	0.050	0.050	0.050	0.050	0.050	0.080
Petroleum hydrocarbons	mg/l	9	0.03	0.07	0.15	0.06	0.11	0.06	0.08	0.04	0.150
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.400	17.417	42.000	15.500	31.600	6.533	4.467	31.333	27.333
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	2.0	34.9	82.0	32.0	73.5	29.0	57.3	41.7	11.7

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	211503 km ²	H05
Distance from the mouth [km]	1435.0	Altitude	79 m	
Location	Hercegszanto R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	1240.0	2128.8	3025.0	2200.0	2743.0	1416.7	2701.7	2303.3	2093.3
Temperature	°C	12	0.0	11.0	22.2	11.4	21.3	0.6	14.7	20.1	8.7
Suspended Solids	mg/l	9	7	23	53	20	52	14	27	37	8
Dissolved Oxygen	mg/l	11	8.1	11.0	15.3	10.6	9.6	13.6	10.8	9.6	10.8
pH	-	12	7.9	8.2	8.6	8.2	8.4	8.2	8.2	8.3	8.1
Conductivity @ 20°C	µS/cm	12	334	407	535	392	516	494	373	352	407
Alkalinity	mmol/l	9	2.5	3.2	4.1	3.1	3.9	3.7	2.9	2.7	3.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.13	0.39	0.10	0.30	0.30	0.07	0.05	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.015	0.033	0.049	0.028	0.046	0.047	0.033	0.018	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.08	2.24	3.30	2.14	3.01	2.93	2.35	1.49	2.20
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.007	0.044	0.095	0.046	0.079	0.062	0.024	0.034	0.056
Total Phosphorus	mg/l	12	0.07	0.12	0.19	0.13	0.17	0.16	0.14	0.13	0.07
Sodium (Na ⁺)	mg/l	9	11.6	14.5	22.0	13.0	18.8	17.3	13.8	11.8	14.0
Potassium (K ⁺)	mg/l	9	2.6	3.2	3.8	3.0	3.8	3.5	3.2	2.7	3.3
Calcium (Ca ²⁺)	mg/l	9	42.0	57.8	71.0	60.0	69.4	66.7	54.7	45.6	65.0
Magnesium (Mg ²⁺)	mg/l	9	13.3	15.8	20.0	15.0	20.0	18.2	15.0	13.7	15.5
Chloride (Cl ⁻)	mg/l	9	15	20	33	19	27	26	19	16	20
Sulphate (SO ₄ ²⁻)	mg/l	9	40	54	76	47	72	61	58	41	47
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	9	2.0	24.6	101.0	14.0	53.8	21.3	6.0	54.0	31.0
Copper (Cu)	µg/l	9	1.4	3.6	5.5	3.9	4.9	2.9	4.3	4.2	2.9
Chromium (Cr) - total	µg/l	9	0.5	0.6	1.5	0.5	0.7	0.5	0.5	1.0	0.5
Lead (Pb)	µg/l	9	0.5	0.7	1.3	0.5	1.2	0.5	1.0	0.5	1.2
Cadmium (Cd)	µg/l	9	0.50	0.50	0.50						
Mercury (Hg)	µg/l	9	0.50	0.50	0.50						
Nickel (Ni)	µg/l	9	0.5	0.6	1.0	0.5	0.6	0.7	0.5	0.5	0.5
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	9	10.0	32.2	127.0	10.0	63.8	10.0	25.0	68.5	48.0
BOD ₅	mg/l	11	2.0	3.6	5.8	3.5	5.0	5.0	4.0	2.5	3.2
COD _{Cr}	mg/l	12	14.0	19.0	27.0	17.5	27.0	20.0	20.7	21.3	14.0
COD _{Mn}	mg/l	12	3.2	4.9	7.4	5.0	6.7	4.9	5.8	5.4	3.6
DOC	mg/l										
Phenol index	mg/l	9	0.003	0.003	0.007	0.003	0.006	0.003	0.004	0.004	0.003
Anionic active surfactants	mg/l	12	0.050	0.061	0.180	0.050	0.050	0.050	0.050	0.050	0.093
Petroleum hydrocarbons	mg/l	9	0.03	0.13	0.30	0.13	0.26	0.15	0.16	0.03	0.150
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	11	1.200	16.573	81.000	8.200	27.000	5.833	2.200	19.733	33.733
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	1.0	35.3	90.0	33.5	71.9	33.0	56.3	41.7	10.3

* in case of dissolved oxygen C10 was calculated

River	/Sio	Catchment	14693 km ²	H06
Distance from the mouth [km]	13.0	Altitude	85 m	
Location	Szekszard-Palank M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	7.0	41.0	78.0	46.5	63.9	58.2	46.7	10.3	48.7
Temperature	°C	12	0.5	11.6	26.0	12.5	20.8	1.1	14.6	21.5	9.3
Suspended Solids	mg/l	12	4	51	112	43	105	9	53	91	53
Dissolved Oxygen	mg/l	12	4.5	10.4	13.2	11.2	7.4	12.3	11.1	7.8	10.2
pH	-	12	8.1	8.3	8.4	8.3	8.4	8.3	8.3	8.3	8.2
Conductivity @ 20°C	µS/cm	12	786	930	1108	879	1073	979	932	989	819
Alkalinity	mmol/l	12	5.1	6.7	8.1	6.4	8.0	6.8	7.3	6.4	6.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.08	0.48	1.53	0.30	1.12	0.83	0.21	0.63	0.25
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.024	0.133	0.350	0.092	0.297	0.030	0.134	0.308	0.061
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	2.14	4.90	11.68	3.76	7.42	3.16	5.14	8.74	2.56
Organic Nitrogen	mg/l	12	0.40	1.31	3.47	1.18	1.81	0.78	1.16	2.01	1.30
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.109	0.266	0.473	0.257	0.457	0.150	0.259	0.450	0.204
Total Phosphorus	mg/l	12	0.15	0.99	4.79	0.50	2.50	0.25	0.61	2.71	0.40
Sodium (Na ⁺)	mg/l	12	37.5	52.3	78.2	49.6	68.4	50.4	54.1	62.7	41.8
Potassium (K ⁺)	mg/l	12	7.2	9.2	11.3	8.8	11.0	8.7	9.0	11.0	7.9
Calcium (Ca ²⁺)	mg/l	12	34.1	77.9	108.9	74.9	104.8	74.6	92.0	77.5	67.3
Magnesium (Mg ²⁺)	mg/l	12	55.9	62.6	71.5	61.0	70.3	67.4	64.3	61.1	57.6
Chloride (Cl ⁻)	mg/l	12	38	62	98	56	91	56	66	83	43
Sulphate (SO ₄ ²⁻)	mg/l	12	113	147	185	147	168	153	162	143	131
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	12	5.0	37.5	90.0	45.5	57.5	49.3	32.0	16.3	52.3
Copper (Cu)	µg/l	12	0.5	7.2	56.0	3.0	6.9	20.5	2.5	3.5	2.2
Chromium (Cr) - total	µg/l	12	0.5	6.9	60.0	1.0	8.5	1.8	1.5	20.7	3.5
Lead (Pb)	µg/l	12	0.5	3.2	20.0	1.0	5.7	9.7	1.3	0.7	1.2
Cadmium (Cd)	µg/l	12	0.50	0.83	1.00	1.00	1.00	0.83	0.67	0.83	1.00
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	12	0.5	2.5	8.0	2.0	5.7	1.8	3.0	2.0	3.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.1	5.3	12.8	4.6	7.3	2.9	8.0	6.3	4.0
COD _{Cr}	mg/l	12	21.0	31.6	50.0	28.5	46.9	25.3	34.3	43.0	23.7
COD _{Mn}	mg/l	12	6.7	11.3	24.2	9.8	16.2	8.5	14.0	14.2	8.6
DOC	mg/l										
Phenol index	mg/l	9	0.003	0.004	0.009	0.003	0.007		0.003	0.003	0.006
Anionic active surfactants	mg/l	9	0.050	0.057	0.110	0.050	0.062		0.070	0.050	0.050
Petroleum hydrocarbons	mg/l	12	0.01	0.05	0.11	0.04	0.10	0.06	0.04	0.04	0.046
AOX	µg/l										
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	6	0.080	14.050	80.000	1.100	40.800	0.420	1.100	80.000	0.840
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	0.7	39.1	290.1	8.6	73.8	3.5	10.1	133.5	9.4

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	35764 km ²	H07
Distance from the mouth [km]	68.0	Altitude	87 m	
Location	Dravaszabolcs M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	311.0	616.8	1230.0	577.0	1103.0	314.3	576.3	715.7	861.0
Temperature	°C	12	1.6	11.4	21.3	11.5	20.3	2.3	14.6	19.5	9.1
Suspended Solids	mg/l	12	5	22	91	16	26	9	16	39	24
Dissolved Oxygen	mg/l	12	7.5	10.5	12.7	10.8	8.3	12.4	10.4	8.4	10.9
pH	-	12	8.0	8.2	8.6	8.3	8.4	8.2	8.2	8.2	8.2
Conductivity @ 20°C	µS/cm	12	233	304	462	280	382	391	293	247	285
Alkalinity	mmol/l	12	2.3	2.8	4.1	2.6	3.9	3.9	2.5	2.4	2.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.06	0.22	0.04	0.16	0.14	0.01	0.04	0.04
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.009	0.018	0.027	0.018	0.026	0.020	0.018	0.019	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.11	1.69	2.49	1.47	2.49	2.34	1.70	1.35	1.35
Organic Nitrogen	mg/l	8	0.43	1.01	2.38	0.65	2.11	2.19	0.50	0.79	0.57
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.048	0.111	0.046	0.103	0.059	0.033	0.060	0.041
Total Phosphorus	mg/l	12	0.07	0.15	0.39	0.12	0.25	0.15	0.17	0.19	0.08
Sodium (Na ⁺)	mg/l	12	5.3	7.5	13.3	5.9	11.3	11.8	6.3	6.0	5.8
Potassium (K ⁺)	mg/l	12	1.9	2.2	2.6	2.2	2.4	2.4	2.0	2.3	2.0
Calcium (Ca ²⁺)	mg/l	12	37.5	48.9	71.2	45.9	61.6	64.6	45.3	41.0	44.9
Magnesium (Mg ²⁺)	mg/l	12	9.4	15.1	23.4	13.6	20.7	20.2	12.4	11.8	16.0
Chloride (Cl ⁻)	mg/l	12	9	13	19	12	17	18	12	12	11
Sulphate (SO ₄ ²⁻)	mg/l	12	21	43	62	44	54	54	42	29	46
Iron (Fe)	mg/l	8	0.15	0.38	0.98	0.28	0.66	0.44	0.28	0.57	0.23
Manganese (Mn)	mg/l	8	0.020	0.056	0.130	0.045	0.102	0.090	0.045	0.065	0.025
Zinc (Zn)	µg/l	8	6.0	20.0	40.0	16.5	40.0	29.5	10.0	26.0	14.5
Copper (Cu)	µg/l	8	0.5	1.5	3.3	1.2	2.7	1.9	1.8	1.4	0.8
Chromium (Cr) - total	µg/l	8	0.5	0.7	1.1	0.5	1.1	0.8	0.8	0.5	0.5
Lead (Pb)	µg/l	8	0.5	1.1	2.0	1.1	1.4	0.8	1.1	1.1	1.6
Cadmium (Cd)	µg/l	8	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	0.5	0.8	1.7	0.5	1.5	0.5	0.5	1.1	1.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	8	10.0	36.4	64.0	41.5	51.4	46.0	32.5	51.0	16.0
BOD ₅	mg/l	12	1.6	3.0	4.6	2.8	4.0	3.6	3.2	2.6	2.5
COD _{Cr}	mg/l	12	5.0	8.1	12.0	7.5	12.0	6.7	11.7	9.0	5.0
COD _{Mn}	mg/l	12	2.4	3.7	5.9	3.5	5.0	3.1	4.1	4.6	3.1
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.003	0.008	0.003	0.006	0.005	0.004	0.003	0.003
Anionic active surfactants	mg/l	12	0.050	0.061	0.180	0.050	0.050	0.093	0.050	0.050	0.050
Petroleum hydrocarbons	mg/l	12	0.01	0.03	0.08	0.03	0.07	0.06	0.01	0.03	0.037
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.050	17.528	160.000	1.400	17.000	6.143	2.717	6.187	55.067
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	0.6	14.2	69.0	5.8	23.5	7.0	20.7	26.8	2.1

* in case of dissolved oxygen C10 was calculated

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tiszasziget L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	368.0	758.6	1360.0	676.5	1223.7	723.3	883.3	398.3	1029.3
Temperature	°C	12	0.0	12.6	26.5	11.3	23.9	0.9	17.2	23.2	9.2
Suspended Solids	mg/l	11	11	66	198	32	187	71	77	28	91
Dissolved Oxygen	mg/l	12	6.5	9.3	11.8	9.2	7.2	11.5	8.8	7.5	9.5
pH	-	12	7.5	7.8	8.1	7.9	8.0	7.5	7.7	8.0	8.0
Conductivity @ 20°C	µS/cm	12	308	448	595	461	533	479	427	488	399
Alkalinity	mmol/l	11	1.8	2.6	3.1	2.7	2.9	2.6	2.8	2.6	2.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.01	0.18	0.69	0.07	0.54	0.51	0.09	0.04	0.07
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.008	0.022	0.040	0.024	0.033	0.026	0.028	0.011	0.024
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.52	1.43	2.31	1.42	1.89	1.61	1.71	0.94	1.45
Organic Nitrogen	mg/l	12	0.23	0.30	0.38	0.29	0.37	0.27	0.29	0.33	0.30
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.069	0.117	0.073	0.100	0.061	0.089	0.060	0.066
Total Phosphorus	mg/l	12	0.10	0.20	0.37	0.19	0.27	0.18	0.19	0.20	0.23
Sodium (Na ⁺)	mg/l	11	20.0	33.7	50.0	34.0	49.0	36.3	34.0	38.3	26.3
Potassium (K ⁺)	mg/l	11	3.6	4.4	5.5	4.2	5.5	4.1	4.4	4.9	4.0
Calcium (Ca ²⁺)	mg/l	11	40.0	55.4	68.0	57.0	64.0	57.3	60.0	55.7	50.0
Magnesium (Mg ²⁺)	mg/l	11	6.9	10.9	14.1	10.9	13.9	11.4	11.0	11.6	9.6
Chloride (Cl ⁻)	mg/l	11	22	50	78	50	74	52	46	62	39
Sulphate (SO ₄ ²⁻)	mg/l	11	41	57	82	55	67	62	61	56	50
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	11	5.0	14.9	34.0	16.0	25.0	25.0	13.5	9.3	11.3
Copper (Cu)	µg/l	11	2.5	4.1	7.5	4.0	5.0	3.7	6.3	3.8	3.3
Chromium (Cr) - total	µg/l	11	0.5	5.0	17.0	4.5	8.5	4.3	5.0	3.0	7.8
Lead (Pb)	µg/l	11	0.5	0.6	1.0	0.5	1.0	0.7	0.5	0.5	0.7
Cadmium (Cd)	µg/l	11	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Mercury (Hg)	µg/l	11	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Nickel (Ni)	µg/l	11	0.5	1.7	4.0	1.5	2.0	1.5	2.8	1.7	1.2
Arsenic (As)	µg/l	4	1.0	2.0	5.0						
Aluminium (Al)	µg/l	11	10.0	11.0	21.0	10.0	10.0	10.0	10.0	10.0	13.7
BOD ₅	mg/l	12	1.5	2.3	4.2	2.3	3.0	2.5	2.3	2.7	1.8
COD _{Cr}	mg/l	12	17.0	22.8	35.0	22.0	26.0	22.7	20.7	26.7	21.0
COD _{Mn}	mg/l	12	3.0	4.7	7.4	4.1	6.8	4.0	5.1	4.8	4.8
DOC	mg/l										
Phenol index	mg/l	7	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Anionic active surfactants	mg/l	12	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Petroleum hydrocarbons	mg/l	4	0.02	0.03	0.04						
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	11	0.260	7.201	64.000	1.710	4.000	1.303	22.060	2.175	1.590
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	0.9	17.7	120.8	4.1	30.1	1.1	9.9	55.8	3.9

* in case of dissolved oxygen C10 was calculated

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tiszasziget M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	368.0	758.6	1360.0	676.5	1223.7	723.3	883.3	398.3	1029.3
Temperature	°C	12	0.0	12.7	26.6	11.3	24.0	0.9	17.2	23.4	9.2
Suspended Solids	mg/l	12	12	59	164	34	139	57	72	28	79
Dissolved Oxygen	mg/l	12	7.2	9.2	11.9	8.9	7.2	11.4	8.7	7.3	9.3
pH	-	12	7.6	7.9	8.2	8.0	8.2	7.6	7.9	8.1	8.0
Conductivity @ 20°C	µS/cm	12	286	435	570	465	508	455	423	476	385
Alkalinity	mmol/l	12	1.7	2.6	3.1	2.7	2.9	2.6	2.6	2.7	2.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.18	0.63	0.08	0.54	0.49	0.11	0.03	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.006	0.028	0.097	0.021	0.044	0.046	0.031	0.010	0.023
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.52	1.42	2.60	1.34	1.93	1.70	1.71	0.96	1.30
Organic Nitrogen	mg/l	12	0.21	0.39	1.07	0.32	0.48	0.30	0.60	0.33	0.34
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.039	0.077	0.101	0.082	0.101	0.063	0.094	0.087	0.063
Total Phosphorus	mg/l	12	0.14	0.22	0.38	0.19	0.31	0.21	0.21	0.21	0.24
Sodium (Na ⁺)	mg/l	11	17.0	32.3	48.0	35.0	45.0	34.0	33.5	40.3	21.7
Potassium (K ⁺)	mg/l	11	3.2	4.1	5.0	4.0	4.8	3.9	4.6	4.6	3.4
Calcium (Ca ²⁺)	mg/l	11	37.2	54.4	65.0	56.0	61.0	54.4	58.5	56.7	49.4
Magnesium (Mg ²⁺)	mg/l	11	6.9	10.3	14.3	9.9	13.4	11.5	10.8	10.5	8.5
Chloride (Cl ⁻)	mg/l	12	19	43	68	45	64	46	40	58	29
Sulphate (SO ₄ ²⁻)	mg/l	12	38	54	77	53	66	58	55	54	48
Iron (Fe)	mg/l	9	0.33	1.96	4.50	1.10	4.18	2.02	4.10	0.82	1.93
Manganese (Mn)	mg/l	9	0.080	0.151	0.320	0.160	0.208	0.170	0.180	0.090	0.163
Zinc (Zn)	µg/l	11	5.0	12.9	25.0	13.0	17.0	18.3	14.0	8.3	11.3
Copper (Cu)	µg/l	11	2.5	4.8	11.0	4.0	6.5	4.2	6.3	6.0	3.2
Chromium (Cr) - total	µg/l	11	0.5	3.3	8.0	3.0	5.5	2.7	4.8	2.5	3.8
Lead (Pb)	µg/l	11	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Cadmium (Cd)	µg/l	11	0.10	0.46	0.50	0.50	0.50	0.50	0.50	0.37	0.50
Mercury (Hg)	µg/l	11	0.20	0.47	0.50	0.50	0.50	0.50	0.50	0.40	0.50
Nickel (Ni)	µg/l	11	0.5	1.6	6.0	1.0	2.5	2.0	3.8	0.7	0.7
Arsenic (As)	µg/l	4	1.0	1.3	2.0						
Aluminium (Al)	µg/l	11	10.0	11.5	23.0	10.0	13.0	10.0	10.0	11.0	14.3
BOD ₅	mg/l	12	1.1	2.0	3.7	1.7	2.9	2.4	2.0	2.0	1.6
COD _{Cr}	mg/l	12	17.0	21.0	29.0	21.0	25.6	20.3	21.3	24.0	18.3
COD _{Mn}	mg/l	12	2.8	4.5	6.9	4.1	6.3	4.0	5.1	4.4	4.5
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.003
Anionic active surfactants	mg/l	12	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Petroleum hydrocarbons	mg/l	4	0.02	0.02	0.02						
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	10	0.190	0.945	3.070	0.670	1.927	0.280	0.640	2.060	1.070
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	0.9	18.6	109.0	4.6	43.6	1.6	9.4	59.7	3.8

* in case of dissolved oxygen C10 was calculated

River	/Tisza	Catchment	138498 km ²	H08
Distance from the mouth [km]	163.0	Altitude	74 m	
Location	Tiszasziget R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	368.0	758.6	1360.0	676.5	1223.7	723.3	883.3	398.3	1029.3
Temperature	°C	12	0.0	12.9	26.8	11.4	24.0	1.8	17.2	23.3	9.3
Suspended Solids	mg/l	11	16	54	140	40	116	73	55	30	57
Dissolved Oxygen	mg/l	12	6.3	9.1	11.9	9.0	6.9	11.5	8.6	6.8	9.4
pH	-	12	7.4	7.8	8.1	7.9	8.0	7.6	7.7	8.0	8.0
Conductivity @ 20°C	µS/cm	12	284	422	550	447	502	446	413	467	362
Alkalinity	mmol/l	11	1.8	2.7	3.2	2.7	2.9	2.6	2.8	2.8	2.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.05	0.23	0.71	0.12	0.62	0.56	0.13	0.07	0.15
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.005	0.020	0.036	0.021	0.032	0.028	0.026	0.009	0.018
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.57	1.46	2.31	1.37	1.89	1.63	1.67	1.26	1.29
Organic Nitrogen	mg/l	12	0.22	0.31	0.52	0.29	0.35	0.30	0.28	0.37	0.27
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.075	0.101	0.082	0.097	0.064	0.087	0.067	0.080
Total Phosphorus	mg/l	12	0.13	0.22	0.34	0.23	0.26	0.21	0.23	0.22	0.23
Sodium (Na ⁺)	mg/l	11	18.0	31.5	47.0	36.0	41.0	34.0	32.0	39.0	21.3
Potassium (K ⁺)	mg/l	11	3.4	4.1	5.0	4.0	4.8	4.1	4.3	4.5	3.7
Calcium (Ca ²⁺)	mg/l	11	36.4	53.8	64.0	52.0	63.0	53.5	56.5	57.7	48.4
Magnesium (Mg ²⁺)	mg/l	11	6.8	10.2	14.7	10.0	13.4	11.7	10.6	10.4	8.3
Chloride (Cl ⁻)	mg/l	11	18	41	61	47	54	42	43	53	25
Sulphate (SO ₄ ²⁻)	mg/l	11	38	54	77	55	65	58	60	53	46
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	11	5.0	15.1	45.0	10.0	30.0	30.3	10.0	8.0	10.3
Copper (Cu)	µg/l	11	2.0	3.0	4.5	3.0	4.5	3.2	3.8	2.8	2.5
Chromium (Cr) - total	µg/l	11	0.5	2.1	5.0	1.5	5.0	1.5	3.3	2.0	2.2
Lead (Pb)	µg/l	11	0.5	0.5	1.0	0.5	0.5	0.7	0.5	0.5	0.5
Cadmium (Cd)	µg/l	11	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Mercury (Hg)	µg/l	11	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Nickel (Ni)	µg/l	11	0.5	1.0	2.0	1.0	2.0	1.3	1.0	1.2	0.7
Arsenic (As)	µg/l	4	1.0	1.5	3.0						
Aluminium (Al)	µg/l	11	10.0	13.7	36.0	10.0	25.0	23.7	10.0	10.0	10.0
BOD ₅	mg/l	12	1.4	2.8	5.9	2.8	3.9	3.1	2.6	3.1	2.4
COD _{Cr}	mg/l	12	12.0	21.1	29.0	22.0	28.4	21.0	22.0	25.0	16.3
COD _{Mn}	mg/l	12	3.1	4.8	9.2	4.1	6.2	4.3	6.0	4.5	4.5
DOC	mg/l										
Phenol index	mg/l	7	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Anionic active surfactants	mg/l	12	0.050	0.054	0.100	0.050	0.050	0.067	0.050	0.050	0.050
Petroleum hydrocarbons	mg/l	4	0.02	0.04	0.06						
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	10	1.200	12.495	53.000	6.000	26.900	5.867	5.175	38.500	6.667
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	12	0.8	16.1	74.7	4.5	44.2	2.1	11.0	47.6	3.5

* in case of dissolved oxygen C10 was calculated

River	/Tisza/Sajo	Catchment	3224 km ²	H09
Distance from the mouth [km]	124.0	Altitude	148 m	
Location	Sajopuspoki M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	4.7	18.6	62.4	14.3	28.8	6.5	34.9	19.2	13.7
Temperature	°C	12	0.0	9.5	20.5	10.2	17.1	0.6	13.0	16.8	7.4
Suspended Solids	mg/l	12	6	29	90	16	67	11	46	52	7
Dissolved Oxygen	mg/l	12	7.9	11.0	14.2	11.2	8.8	13.6	10.2	8.6	11.7
pH	-	12	7.8	7.9	8.1	8.0	8.1	7.9	7.9	8.0	8.0
Conductivity @ 20°C	µS/cm	12	280	403	543	377	526	530	356	347	380
Alkalinity	mmol/l	12	2.1	3.0	3.9	3.0	3.6	3.7	2.6	2.7	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.09	0.37	0.84	0.24	0.76	0.77	0.22	0.17	0.32
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.021	0.049	0.122	0.040	0.070	0.023	0.042	0.077	0.052
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.33	2.43	6.85	2.06	2.63	2.57	3.40	1.69	2.05
Organic Nitrogen	mg/l	12	0.30	0.60	1.26	0.48	0.91	0.39	0.84	0.64	0.52
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.046	0.105	0.186	0.096	0.152	0.151	0.070	0.110	0.090
Total Phosphorus	mg/l	12	0.13	0.18	0.26	0.17	0.26	0.22	0.15	0.21	0.14
Sodium (Na ⁺)	mg/l	12	7.7	10.9	15.7	9.7	15.4	15.4	9.2	8.7	10.4
Potassium (K ⁺)	mg/l	12	2.5	4.8	7.2	4.7	6.4	6.7	3.7	4.6	4.3
Calcium (Ca ²⁺)	mg/l	12	43.3	60.7	80.0	58.7	76.8	77.2	53.8	52.6	59.1
Magnesium (Mg ²⁺)	mg/l	12	9.3	15.2	22.0	15.2	20.7	20.9	12.8	12.2	14.9
Chloride (Cl ⁻)	mg/l	12	8	17	35	16	27	29	12	13	15
Sulphate (SO ₄ ²⁻)	mg/l	12	47	68	95	68	92	92	62	54	65
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	12	58.0	134.6	247.0	118.0	213.4	173.0	126.7	135.7	103.0
Copper (Cu)	µg/l	12	4.1	6.0	9.5	6.0	7.0	5.2	7.3	6.1	5.2
Chromium (Cr) - total	µg/l	12	0.5	0.8	2.2	0.5	1.5	1.2	0.5	0.5	0.8
Lead (Pb)	µg/l	12	1.0	2.3	5.1	2.0	3.2	2.3	2.7	2.1	2.0
Cadmium (Cd)	µg/l	12	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Mercury (Hg)	µg/l	12	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Nickel (Ni)	µg/l	12	0.5	1.8	4.1	1.6	2.9	0.8	1.4	1.6	3.1
Arsenic (As)	µg/l	4	1.8	3.1	4.9						
Aluminium (Al)	µg/l	12	10.0	39.3	103.0	33.0	60.1	27.3	43.0	54.3	32.7
BOD ₅	mg/l	12	1.3	3.7	5.7	3.8	5.0	3.6	3.8	3.4	4.0
COD _{Cr}	mg/l	12	5.0	13.8	20.0	13.0	18.9	14.7	12.0	15.7	12.7
COD _{Mn}	mg/l	12	2.6	4.4	7.2	3.9	6.9	3.4	4.6	6.3	3.3
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Anionic active surfactants	mg/l	12	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Petroleum hydrocarbons	mg/l	12	0.01	0.03	0.07	0.02	0.03	0.02	0.02	0.02	0.037
AOX	µg/l										
Lindane	µg/l	4	0.005	0.053	0.100						
pp DDT	µg/l										
Atrazine	µg/l	4	0.03	0.06	0.10						
Chloroform	µg/l	4	0.30	1.75	5.00						
Carbon tetrachloride	µg/l	4	0.50	4.43	13.00						
Trichloroethylene	µg/l	4	0.10	0.93	3.00						
Tetrachloroethylene	µg/l	4	0.10	1.60	3.20						
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.300	4.192	14.000	2.100	11.500	1.500	6.533	1.800	6.933
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	12	1.8	2.2	3.2	2.1	2.7	2.4	1.9	2.2	2.5
Chlorophyll-a	µg/l	12	0.0	2.6	13.7	1.7	3.6	0.8	2.0	6.7	0.8

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	15356 km ²	SI01
Distance from the mouth [km]	300.0	Altitude	200 m	
Location	Ormoz L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	201.0	383.3	685.0	359.0	508.0	276.5	388.0	399.7	433.3
Temperature	°C	11	2.0	11.1	20.4	12.5	18.3	3.8	14.4	15.8	8.1
Suspended Solids	mg/l	11	4	9	14	8	14	5	11	11	8
Dissolved Oxygen	mg/l	11	8.9	11.0	13.8	10.9	9.1	13.2	11.0	9.4	11.2
pH	-	11	7.9	8.1	8.3	8.1	8.2	8.3	8.1	8.0	8.1
Conductivity @ 20°C	µS/cm	11	222	265	300	268	288	291	246	264	266
Alkalinity	mmol/l	11	1.9	2.3	2.6	2.3	2.5	2.4	2.1	2.1	2.5
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.06	0.17	0.23	0.16	0.22	0.14	0.12	0.19	0.20
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.009	0.012	0.021	0.009	0.015	0.009	0.010	0.011	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.90	1.24	1.74	1.15	1.65	1.55	1.27	1.05	1.21
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.003	0.009	0.016	0.010	0.013	0.008	0.007	0.012	0.010
Total Phosphorus	mg/l	11	0.01	0.02	0.03	0.03	0.03	0.03	0.01	0.03	0.03
Sodium (Na ⁺)	mg/l	11	2.4	4.0	6.4	3.6	4.8	5.6	3.2	4.3	3.6
Potassium (K ⁺)	mg/l	11	1.3	1.7	3.1	1.6	2.2	1.7	1.4	1.8	2.0
Calcium (Ca ²⁺)	mg/l	11	33.6	40.1	47.9	41.5	45.0	44.3	37.4	35.3	44.8
Magnesium (Mg ²⁺)	mg/l	11	9.1	10.4	13.0	10.0	11.3	11.3	9.2	10.8	10.7
Chloride (Cl ⁻)	mg/l	11	4	5	7	6	7	7	5	6	5
Sulphate (SO ₄ ²⁻)	mg/l	11	25	28	34	27	31	33	28	26	28
Iron (Fe)	mg/l	11	0.01	0.04	0.07	0.04	0.05	0.05	0.04	0.04	0.04
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	11	2.0	2.0	2.0						
Copper (Cu)	µg/l	11	0.1	0.6	6.0						
Chromium (Cr) - total	µg/l	11	0.2	0.2	0.2						
Lead (Pb)	µg/l	11	0.4	0.4	0.4						
Cadmium (Cd)	µg/l	11	0.02	0.13	1.30	0.02	0.02	0.66	0.02	0.02	0.02
Mercury (Hg)	µg/l	2	0.25	0.25	0.25						
Nickel (Ni)	µg/l	11	0.5	0.5	0.5						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	11	5.0	28.6	50.0	30.0	40.0	20.0	26.7	25.0	40.0
BOD ₅	mg/l	11	1.3	2.3	3.3	2.2	3.0	2.9	2.6	1.7	2.1
COD _{Cr}	mg/l	11	3.2	6.5	10.1	6.0	9.7	7.8	4.2	6.4	8.0
COD _{Mn}	mg/l	11	2.5	3.0	3.9	2.9	3.5	3.1	3.0	3.2	2.8
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	11	0.005	0.012	0.020	0.010	0.020	0.015	0.007	0.013	0.013
Petroleum hydrocarbons	mg/l										
AOX	µg/l	2	0.3	0.3	0.3						
Lindane	µg/l	2	0.005	0.005	0.005						
pp DDT	µg/l	2	0.002	0.002	0.002						
Atrazine	µg/l	2	0.02	0.02	0.02						
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	3	10	17	26						
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	10878 km ²	S102
Distance from the mouth [km]	729.0	Altitude	133 m	
Location	Jesenice R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	11	210.0	290.6	388.0	294.0	378.0	294.0	344.0	293.0	260.5
Temperature	°C	11	5.8	12.4	19.7	13.1	19.1	7.9	14.2	18.1	9.4
Suspended Solids	mg/l	11	1	11	34	8	33	21	12	18	2
Dissolved Oxygen	mg/l	11	7.9	10.5	12.3	10.9	8.0	11.0	10.9	8.6	11.6
pH	-	11	8.0	8.1	8.4	8.1	8.2	8.1	8.2	8.1	8.2
Conductivity @ 20°C	µS/cm	11	310	354	391	366	385	362	313	346	378
Alkalinity	mmol/l	11	3.1	3.4	3.9	3.3	3.8	3.3	3.1	3.3	3.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.15	0.21	0.26	0.23	0.24	0.19	0.19	0.21	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.009	0.023	0.070	0.018	0.027	0.015	0.020	0.035	0.018
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.33	1.58	1.76	1.63	1.70	1.59	1.36	1.63	1.65
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.020	0.063	0.140	0.052	0.111	0.046	0.052	0.098	0.051
Total Phosphorus	mg/l	11	0.03	0.09	0.23	0.09	0.15	0.08	0.09	0.15	0.06
Sodium (Na ⁺)	mg/l	11	2.6	4.5	6.8	4.0	6.7	4.7	3.9	5.3	4.0
Potassium (K ⁺)	mg/l	11	0.8	1.3	2.1	1.2	1.8	2.0	1.1	1.3	1.1
Calcium (Ca ²⁺)	mg/l	11	50.8	58.6	64.4	55.8	64.4	59.4	52.2	55.1	64.2
Magnesium (Mg ²⁺)	mg/l	11	7.4	11.8	15.2	12.1	13.9	9.8	11.7	13.3	11.8
Chloride (Cl ⁻)	mg/l	11	4	6	9	6	7	8	5	6	6
Sulphate (SO ₄ ²⁻)	mg/l	11	17	21	26	21	25	21	21	23	20
Iron (Fe)	mg/l	11	0.02	0.04	0.07	0.03	0.05	0.05	0.05	0.04	0.03
Manganese (Mn)	mg/l										
Zinc (Zn)	µg/l	11	2.0	2.0	2.0						
Copper (Cu)	µg/l	11	0.1	0.1	0.1						
Chromium (Cr) - total	µg/l	11	0.2	0.2	0.2						
Lead (Pb)	µg/l	11	0.4	0.4	0.4						
Cadmium (Cd)	µg/l	11	0.02	0.02	0.02						
Mercury (Hg)	µg/l	1		0.25							
Nickel (Ni)	µg/l	11	0.5	3.0	29.0	0.5	0.5	0.5	0.5	0.5	7.6
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l	11	5.0	25.0	40.0	30.0	30.0	25.0	12.5	30.0	27.5
BOD ₅	mg/l	11	1.4	2.5	3.6	2.4	3.6	2.9	2.5	2.6	2.4
COD _{Cr}	mg/l	11	4.8	7.6	11.0	8.2	10.7	9.0	7.1	7.5	7.3
COD _{Mn}	mg/l	11	2.5	3.5	7.1	3.3	4.1	3.5	3.2	4.6	2.9
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	11	0.005	0.018	0.030	0.020	0.030	0.008	0.025	0.015	0.023
Petroleum hydrocarbons	mg/l										
AOX	µg/l	1		57.0							
Lindane	µg/l	1		0.005							
pp DDT	µg/l	1		0.002							
Atrazine	µg/l	1		0.02							
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4	11	13	14						
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	15616 km ²	HR03
Distance from the mouth [km]	288.0	Altitude	167 m	
Location	Varazdin M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	0.5	9.6	18.2	9.2	16.0	1.4	12.3	16.7	7.8
Suspended Solids	mg/l	12	6	12	22	9	21	7	11	20	11
Dissolved Oxygen	mg/l	12	6.6	9.9	13.6	9.7	7.6	12.4	8.7	9.2	9.2
pH	-	12	7.6	7.9	8.1	7.9	8.0	7.8	7.8	8.0	7.8
Conductivity @ 20°C	µS/cm	12	246	301	371	295	348	352	299	272	283
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.14	0.24	0.12	0.24	0.17	0.15	0.11	0.12
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.012	0.017	0.029	0.016	0.022	0.018	0.014	0.020	0.016
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	1.30	2.05	3.20	2.00	2.70	2.37	2.00	1.65	2.03
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.050	0.115	0.160	0.120	0.150	0.147	0.100	0.100	0.113
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	4	44.0	46.0	50.0	45.0	48.8			44.0	48.0
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l										
Sulphate (SO ₄ ²⁻)	mg/l										
Iron (Fe)	mg/l	8	0.13	0.80	2.17	0.53	1.68	0.28	0.59	0.96	1.39
Manganese (Mn)	mg/l	8	0.017	0.029	0.063	0.025	0.042	0.020	0.030	0.024	0.044
Zinc (Zn)	µg/l	10	13.0	37.4	100.0	30.5	55.9	44.7	32.0	27.0	45.0
Copper (Cu)	µg/l	8	3.2	5.8	12.1	5.2	8.0	5.5	4.8	4.8	8.1
Chromium (Cr) - total	µg/l	8	1.0	3.6	8.3	2.6	7.7	1.2	5.1	2.4	5.9
Lead (Pb)	µg/l	8	8.4	10.2	12.0	10.2	11.8	10.5	10.4	10.1	10.0
Cadmium (Cd)	µg/l	8	0.63	1.82	8.50	0.85	3.40	0.77	4.57	0.85	1.11
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	5.7	8.4	12.8	7.7	11.8	7.1	7.2	7.1	12.1
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.0	3.0	5.7	2.8	4.7	3.7	2.9	3.6	1.9
COD _{Cr}	mg/l	12	2.3	4.6	8.7	4.2	6.7	3.2	4.1	5.1	6.1
COD _{Mn}	mg/l	12	1.5	3.2	5.4	3.1	4.7	2.3	3.2	3.3	3.8
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l	12	0.01	0.04	0.35	0.01	0.04	0.01	0.02	0.02	0.126
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	6	0.880	6.147	24.000	3.100	13.900	2.200	3.800	3.800	12.440
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	2.2	2.3	2.3	2.3	2.3		2.2		2.3
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	31038 km ²	HR04
Distance from the mouth [km]	226.0	Altitude	123 m	
Location	Botovo M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	12	2.0	11.0	20.2	10.9	18.7	2.9	14.0	18.3	8.8
Suspended Solids	mg/l	12	7	23	60	21	36	16	17	33	26
Dissolved Oxygen	mg/l	12	8.0	10.1	12.3	10.2	8.5	11.7	10.1	8.6	10.1
pH	-	12	7.5	7.9	8.5	7.9	8.1	7.8	8.0	7.7	8.1
Conductivity @ 20°C	µS/cm	12	246	294	380	282	361	362	276	260	280
Alkalinity	mmol/l	12	2.1	2.4	3.2	2.3	3.1	3.0	2.2	2.3	2.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.17	0.58	0.17	0.23	0.32	0.12	0.10	0.13
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.019	0.029	0.021	0.025	0.021	0.016	0.020	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.10	1.69	2.50	1.70	2.19	2.07	1.53	1.43	1.73
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.010	0.038	0.080	0.035	0.068	0.050	0.040	0.023	0.037
Total Phosphorus	mg/l	12	0.05	0.13	0.26	0.13	0.19	0.15	0.16	0.13	0.09
Sodium (Na ⁺)	mg/l	9	3.9	5.9	10.4	5.0	8.6	8.3	4.7		4.6
Potassium (K ⁺)	mg/l	9	1.8	2.2	2.8	1.9	2.8	2.5	2.2		1.8
Calcium (Ca ²⁺)	mg/l	12	34.0	46.5	59.0	46.0	56.7	56.7	45.3	39.3	44.7
Magnesium (Mg ²⁺)	mg/l	9	10.0	12.6	17.0	12.0	16.2	15.0	11.0		11.7
Chloride (Cl ⁻)	mg/l	12	5	10	16	9	16	13	8	11	7
Sulphate (SO ₄ ²⁻)	mg/l	12	20	34	48	34	47	37	36	29	34
Iron (Fe)	mg/l	12	0.05	0.81	4.39	0.26	1.56	0.66	0.67	1.54	0.37
Manganese (Mn)	mg/l	12	0.019	0.040	0.087	0.037	0.059	0.054	0.034	0.049	0.023
Zinc (Zn)	µg/l	12	10.0	25.0	41.0	25.0	39.7	20.0	23.7	27.0	29.3
Copper (Cu)	µg/l	12	0.7	4.4	9.8	4.0	8.6	4.0	4.6	5.4	3.5
Chromium (Cr) - total	µg/l	12	0.5	2.8	10.0	1.7	5.7	4.2	2.7	2.9	1.5
Lead (Pb)	µg/l	12	0.9	7.0	13.5	7.5	12.5	8.3	7.2	6.7	5.9
Cadmium (Cd)	µg/l	12	0.05	0.61	1.24	0.77	1.07	0.57	0.52	0.67	0.68
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	12	0.5	6.1	11.6	7.7	9.9	5.6	5.2	6.1	7.6
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.4	2.8	5.0	2.8	3.8	3.2	3.1	2.9	2.1
COD _{Cr}	mg/l	12	4.5	10.1	18.0	9.8	15.0	11.0	12.7	10.2	6.6
COD _{Mn}	mg/l	12	2.4	4.4	8.7	3.7	7.4	3.7	4.8	4.9	4.3
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.004	0.007	0.004	0.006	0.006	0.005	0.002	0.002
Anionic active surfactants	mg/l	12	0.020	0.049	0.090	0.050	0.070	0.047	0.070	0.033	0.047
Petroleum hydrocarbons	mg/l	12	0.01	0.08	0.17	0.08	0.11	0.08	0.09	0.08	0.053
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	8	0.093	1.844	7.500	0.550	5.470	3.950	2.650	0.167	0.610
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2	2.3	2.4	2.4	2.4	2.4	2.4	2.4		2.3
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Drava	Catchment	37142 km ²	HR05
Distance from the mouth [km]	78.0	Altitude	89 m	
Location	D. Miholjac R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	11	1.6	11.0	22.5	10.0	20.4	2.5	15.0	20.1	9.3
Suspended Solids	mg/l	11	9	21	60	15	34	11	22	35	20
Dissolved Oxygen	mg/l	11	8.2	10.2	12.5	10.2	8.3	11.9	9.9	9.0	9.6
pH	-	11	7.3	8.0	8.6	8.1	8.3	8.0	8.0	8.0	7.9
Conductivity @ 20°C	µS/cm	11	250	301	376	284	372	373	267	265	287
Alkalinity	mmol/l	11	2.2	2.7	4.1	2.6	3.6	3.5	2.3	2.5	2.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	11	0.02	0.19	0.38	0.20	0.30	0.25	0.17	0.21	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	11	0.007	0.015	0.023	0.015	0.020	0.019	0.010	0.017	0.015
Nitrate-N (NO ₃ ⁻ -N)	mg/l	11	0.40	1.56	2.70	1.40	2.10	1.97	1.77	0.85	1.43
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	11	0.010	0.048	0.100	0.040	0.080	0.053	0.053	0.045	0.040
Total Phosphorus	mg/l	11	0.07	0.16	0.32	0.12	0.27	0.14	0.19	0.20	0.11
Sodium (Na ⁺)	mg/l	9	4.4	6.0	9.8	5.3	8.1	8.2	4.8		5.1
Potassium (K ⁺)	mg/l	9	1.6	2.1	3.2	1.9	2.7	2.3	2.3		1.9
Calcium (Ca ²⁺)	mg/l	11	39.0	48.5	66.0	46.0	59.0	59.0	42.3	44.5	46.7
Magnesium (Mg ²⁺)	mg/l	9	9.0	15.6	24.0	16.0	22.4	21.3	10.7		14.7
Chloride (Cl ⁻)	mg/l	11	5	10	19	9	14	14	9	11	8
Sulphate (SO ₄ ²⁻)	mg/l	11	21	34	50	34	44	40	33	24	36
Iron (Fe)	mg/l	11	0.17	0.70	2.78	0.50	1.12	0.48	1.17	0.65	0.50
Manganese (Mn)	mg/l	11	0.026	0.042	0.070	0.034	0.064	0.037	0.048	0.062	0.028
Zinc (Zn)	µg/l	9	12.0	23.6	40.0	23.0	34.4	14.0	21.0	23.0	32.0
Copper (Cu)	µg/l	11	0.9	4.3	8.0	3.6	7.7	4.6	4.2	4.0	4.2
Chromium (Cr) - total	µg/l	11	0.4	1.8	4.5	1.4	3.8	1.2	2.2	2.5	1.6
Lead (Pb)	µg/l	11	1.1	8.1	17.5	7.6	16.0	9.5	8.8	7.3	6.4
Cadmium (Cd)	µg/l	11	0.05	0.67	1.54	0.85	1.12	0.68	0.54	0.60	0.83
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	11	0.4	6.6	13.2	7.8	11.2	6.2	5.9	4.9	8.9
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	1.0	2.7	4.4	2.4	4.1	2.5	3.1	3.5	1.9
COD _{Cr}	mg/l	11	6.6	9.9	17.0	10.0	12.0	9.0	11.3	12.0	7.9
COD _{Mn}	mg/l	11	2.7	4.2	6.5	3.4	6.4	3.4	4.9	4.4	4.2
DOC	mg/l										
Phenol index	mg/l	11	0.001	0.004	0.008	0.004	0.008	0.003	0.006	0.005	0.003
Anionic active surfactants	mg/l	11	0.020	0.089	0.440	0.050	0.150	0.203	0.040	0.045	0.053
Petroleum hydrocarbons	mg/l	11	0.01	0.08	0.18	0.08	0.11	0.09	0.11	0.06	0.058
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	7	0.400	7.723	46.000	0.900	20.980	0.650	1.000	46.000	2.380
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	3	2.3	2.4	2.6	2.3	2.5		2.3		2.6
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	10834 km ²	HR06
Distance from the mouth [km]	729.0	Altitude	132 m	
Location	Jesenice R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	96.0	304.4	962.0	256.5	445.1	261.3	203.0	187.3	566.0
Temperature	°C	12	5.0	11.3	19.8	10.7	18.8	5.8	14.3	16.4	8.8
Suspended Solids	mg/l	12	5	21	76	13	33	10	17	14	44
Dissolved Oxygen	mg/l	12	7.4	9.6	11.9	9.9	7.5	10.9	9.2	8.4	9.8
pH	-	12	7.1	7.5	8.0	7.5	7.7	7.5	7.4	7.7	7.6
Conductivity @ 20°C	µS/cm	12	280	357	414	360	400	353	378	352	345
Alkalinity	mmol/l	12	173.0	190.5	213.0	191.5	202.7	198.0	181.0	195.3	187.7
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.10	0.23	0.40	0.20	0.30	0.30	0.20	0.13	0.27
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.034	0.050	0.040	0.040	0.030	0.043	0.037	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.00	2.71	4.20	2.80	3.78	3.70	2.70	2.27	2.17
Organic Nitrogen	mg/l	12	0.20	0.56	2.00	0.38	1.22	0.47	0.30	0.30	1.17
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.063	0.170	0.050	0.115	0.047	0.043	0.087	0.073
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l	12	2.6	3.7	5.3	3.5	5.0	3.7	3.9	4.2	3.1
Potassium (K ⁺)	mg/l	12	0.6	1.2	1.6	1.2	1.4	1.1	1.2	1.2	1.2
Calcium (Ca ²⁺)	mg/l	12	45.0	57.0	66.0	58.5	66.0	61.7	52.0	56.3	58.0
Magnesium (Mg ²⁺)	mg/l	12	12.0	15.8	20.0	16.0	18.0	15.3	15.3	16.3	16.0
Chloride (Cl ⁻)	mg/l	12	5	8	14	7	13	13	8	7	6
Sulphate (SO ₄ ²⁻)	mg/l	12	15	22	31	22	26	25	21	20	19
Iron (Fe)	mg/l	12	0.01	0.15	0.30	0.11	0.29	0.10	0.08	0.13	0.27
Manganese (Mn)	mg/l	12	0.010	0.046	0.200	0.010	0.118	0.010	0.087	0.010	0.077
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										
BOD ₅	mg/l	12	0.4	2.6	4.8	2.5	3.4	2.7	3.2	2.6	1.8
COD _{Cr}	mg/l	12	6.9	12.2	24.0	11.0	16.4	15.2	13.0	9.5	10.9
COD _{Mn}	mg/l	12	2.7	3.8	6.2	3.3	5.9	3.5	4.0	3.7	4.2
DOC	mg/l	10	1.2	2.2	3.2	2.1	3.1	2.1	2.0	2.7	1.6
Phenol index	mg/l	12	0.000	0.001	0.005	0.001	0.003	0.001	0.002	0.001	0.002
Anionic active surfactants	mg/l	12	0.025	0.043	0.190	0.025	0.058	0.037	0.030	0.025	0.080
Petroleum hydrocarbons	mg/l	12	0.08	0.23	0.62	0.19	0.52	0.47	0.18	0.08	0.167
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	0.910	17.051	93.000	3.950	43.800	33.633	5.433	4.603	24.533
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4	2.5	2.7	2.8	2.7	2.8	2.8	2.7	2.6	2.5
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	29585 km ²	HR07
Distance from the mouth [km]	525.0	Altitude	89 m	
Location	us. Una Jasenovac L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	264.0	828.0	1660.0	789.5	1282.0	897.7	940.3	554.3	919.7
Temperature	°C	12	3.0	12.5	23.0	12.5	20.8	6.0	16.3	18.3	9.3
Suspended Solids	mg/l	12	0	10	22	9	21	6	15	14	4
Dissolved Oxygen	mg/l	12	5.9	8.9	11.0	9.0	7.4	10.2	9.4	7.0	8.9
pH	-	12	7.9	8.2	8.6	8.2	8.4	8.2	8.2	8.4	8.0
Conductivity @ 20°C	µS/cm	12	423	497	591	495	559	501	475	479	531
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.02	0.23	0.51	0.20	0.44	0.45	0.18	0.16	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.035	0.060	0.035	0.049	0.027	0.043	0.043	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.83	1.43	1.95	1.43	1.70	1.20	1.37	1.68	1.47
Organic Nitrogen	mg/l	12	0.14	0.37	0.73	0.33	0.59	0.22	0.56	0.35	0.33
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.090	0.328	0.480	0.350	0.389	0.353	0.370	0.357	0.233
Total Phosphorus	mg/l	12	0.07	0.17	0.29	0.17	0.22	0.15	0.21	0.16	0.15
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	12	27.1	46.7	77.2	45.1	69.8	43.4	42.1	54.1	47.1
Magnesium (Mg ²⁺)	mg/l	12	0.5	5.5	14.0	4.9	12.4	10.6	4.8	2.0	4.6
Chloride (Cl ⁻)	mg/l	12	5	9	18	8	15	14	7	8	7
Sulphate (SO ₄ ²⁻)	mg/l	12	10	23	36	22	31	24	24	22	20
Iron (Fe)	mg/l	12	0.11	0.52	1.11	0.44	0.94	0.43	0.65	0.70	0.27
Manganese (Mn)	mg/l	12	0.010	0.029	0.060	0.025	0.059	0.020	0.057	0.013	0.027
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										
BOD ₅	mg/l	12	0.1	3.1	5.7	3.0	5.5	3.9	3.5	3.3	1.8
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	12	2.1	3.9	6.4	3.9	4.7	3.3	4.1	4.7	3.3
DOC	mg/l										
Phenol index	mg/l	12	0.003	0.009	0.020	0.008	0.014	0.015	0.010	0.007	0.004
Anionic active surfactants	mg/l	12	0.010	0.064	0.200	0.050	0.108	0.080	0.080	0.040	0.057
Petroleum hydrocarbons	mg/l	12	0.01	0.02	0.10	0.01	0.02	0.01	0.04	0.01	0.010
AOX	µg/l										
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	1.500	12.025	24.000	3.800	24.000	24.000	3.800	9.767	10.533
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Sava	Catchment	62890 km ²	HR08
Distance from the mouth [km]	254.0	Altitude	79 m	
Location	ds. Zupanja R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	356.0	1254.4	2500.0	1195.0	2007.0	1322.0	1480.0	797.7	1418.0
Temperature	°C	12	2.0	12.4	25.0	12.8	23.5	3.3	16.8	19.5	9.8
Suspended Solids	mg/l	12	10	44	94	43	88	39	48	49	42
Dissolved Oxygen	mg/l	12	7.2	9.0	11.9	9.0	7.2	10.8	8.6	7.6	9.0
pH	-	12	7.4	7.9	8.2	8.0	8.1	8.0	8.0	7.6	8.0
Conductivity @ 20°C	µS/cm	12	361	434	518	413	506	465	434	444	391
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.14	0.34	0.12	0.23	0.12	0.12	0.12	0.21
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.028	0.120	0.020	0.048	0.013	0.017	0.060	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.48	1.77	2.67	1.88	2.25	1.91	1.41	2.09	1.68
Organic Nitrogen	mg/l	12	0.88	1.26	2.73	1.09	1.61	1.30	1.56	1.12	1.04
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.180	0.468	1.490	0.415	0.631	0.773	0.397	0.490	0.213
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	12	42.0	56.6	76.0	55.5	69.5	49.7	55.7	60.7	60.3
Magnesium (Mg ²⁺)	mg/l	12	8.5	17.8	25.4	19.1	24.9	22.0	16.9	14.3	17.7
Chloride (Cl ⁻)	mg/l	12	7	14	21	15	19	14	13	15	14
Sulphate (SO ₄ ²⁻)	mg/l	12	20	30	39	30	37	31	28	30	30
Iron (Fe)	mg/l	12	0.08	0.56	1.33	0.46	1.09	0.49	0.64	0.73	0.38
Manganese (Mn)	mg/l	12	0.080	0.148	0.330	0.120	0.249	0.163	0.243	0.080	0.107
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										
BOD ₅	mg/l	12	1.3	2.4	3.8	2.2	3.3	2.5	2.2	2.2	2.7
COD _{Cr}	mg/l	12	20.0	25.3	31.0	24.5	29.8	25.3	23.3	26.0	26.3
COD _{Mn}	mg/l	12	3.3	4.7	6.8	4.0	6.4	4.2	4.4	4.7	5.4
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.004	0.012	0.002	0.010	0.002	0.004	0.008	0.002
Anionic active surfactants	mg/l	12	0.030	0.133	0.270	0.130	0.225	0.173	0.147	0.147	0.067
Petroleum hydrocarbons	mg/l	4	0.01	0.04	0.08	0.04	0.08			0.01	0.053
AOX	µg/l										
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	12	4.300	12.342	43.000	8.400	23.100	7.967	19.933	9.533	11.933
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	58 m	
Location	Bazias L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3400.0	6099.3	9307.0	6314.5	8118.0	5146.7	7752.3	4201.7	7296.7
Temperature	°C	12	2.0	12.0	24.5	13.0	22.6	3.0	15.8	18.7	10.7
Suspended Solids	mg/l	12	12	28	52	25	44	45	27	20	20
Dissolved Oxygen	mg/l	12	6.0	8.7	11.5	8.8	6.9	10.5	8.1	6.9	9.5
pH	-	12	6.2	7.7	8.2	7.8	8.1	7.7	7.7	7.3	8.1
Conductivity @ 20°C	µS/cm	11	310	391	547	371	534	389	386	429	357
Alkalinity	mmol/l	12	2.6	2.9	3.6	2.9	3.5	3.3	2.8	2.8	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.08	0.18	0.33	0.16	0.29	0.23	0.14	0.22	0.14
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.043	0.070	0.045	0.060	0.027	0.057	0.057	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.90	1.63	2.60	1.49	2.48	1.96	2.05	1.10	1.40
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.048	0.080	0.045	0.074	0.043	0.040	0.051	0.057
Total Phosphorus	mg/l	12	0.04	0.08	0.12	0.08	0.11	0.08	0.08	0.10	0.08
Sodium (Na ⁺)	mg/l	12	10.2	13.3	16.2	13.6	15.0	13.7	14.1	14.0	11.3
Potassium (K ⁺)	mg/l	12	2.4	3.1	3.7	3.1	3.7	3.5	3.6	2.6	2.7
Calcium (Ca ²⁺)	mg/l	11	48.0	52.9	68.0	52.0	56.0	58.7	51.0	48.5	52.0
Magnesium (Mg ²⁺)	mg/l	12	7.3	15.3	31.7	13.3	24.0	18.5	12.8	19.5	10.5
Chloride (Cl ⁻)	mg/l	12	9	21	28	22	27	24	22	24	16
Sulphate (SO ₄ ²⁻)	mg/l	12	20	43	100	40	52	44	46	58	24
Iron (Fe)	mg/l	12	0.08	1.49	4.95	0.57	4.40	4.12	0.98	0.33	0.52
Manganese (Mn)	mg/l	12	0.002	0.023	0.126	0.015	0.026	0.018	0.055	0.012	0.008
Zinc (Zn)	µg/l	12	2.0	27.2	97.0	20.5	39.3	17.0	28.0	49.3	14.3
Copper (Cu)	µg/l	12	4.0	13.7	41.0	9.0	33.7	12.0	16.7	18.7	7.3
Chromium (Cr) - total	µg/l	10	6.0	12.5	21.0	10.0	19.2	10.7	11.7	14.0	15.0
Lead (Pb)	µg/l	11	1.0	3.7	20.0	1.5	5.0	1.5	7.5	2.3	2.7
Cadmium (Cd)	µg/l	4	0.30	0.57	0.86						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	12	1.0	5.1	13.0	5.0	7.9	3.3	3.7	8.7	4.7
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.8	2.6	3.8	2.5	3.6	3.6	2.4	2.5	2.0
COD _{Cr}	mg/l	6	10.8	12.9	14.7	13.3	14.3	13.4	12.4		
COD _{Mn}	mg/l	12	3.2	4.1	4.9	4.1	4.8	4.8	4.3	3.8	3.4
DOC	mg/l										
Phenol index	mg/l	9	0.001	0.002	0.004	0.002	0.003	0.002	0.003	0.002	0.003
Anionic active surfactants	mg/l	8	0.010	0.019	0.030	0.020	0.030	0.013	0.027	0.015	
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.027	0.050						
pp' DDT	µg/l	2	0.002	0.026	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	8	0.084	0.811	2.500	0.560	1.730	1.063	2.500	0.280	0.117
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	3	2.0	2.1	2.1						
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	570896 km ²	RO01
Distance from the mouth [km]	1071.0	Altitude	58 m	
Location	Bazias M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3400.0	6099.3	9307.0	6314.5	8118.0	5146.7	7752.3	4201.7	7296.7
Temperature	°C	12	2.0	11.5	24.5	11.5	22.4	3.0	14.8	18.3	9.8
Suspended Solids	mg/l	12	12	24	43	23	32	34	22	20	20
Dissolved Oxygen	mg/l	12	6.8	8.9	11.3	8.8	7.1	10.4	7.9	7.5	9.6
pH	-	12	6.2	7.7	8.2	7.8	8.2	7.8	7.8	7.3	8.1
Conductivity @ 20°C	µS/cm	11	310	388	547	369	499	389	380	414	367
Alkalinity	mmol/l	12	2.5	2.9	3.5	2.9	3.4	3.2	2.7	2.7	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.06	0.17	0.28	0.17	0.27	0.22	0.18	0.18	0.11
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.043	0.070	0.040	0.070	0.030	0.057	0.053	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.90	1.62	2.54	1.62	2.12	1.91	1.84	1.29	1.41
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.046	0.080	0.040	0.069	0.043	0.037	0.047	0.057
Total Phosphorus	mg/l	12	0.04	0.09	0.15	0.08	0.13	0.08	0.08	0.12	0.07
Sodium (Na ⁺)	mg/l	12	10.2	13.3	16.2	13.6	15.3	14.0	13.9	14.3	11.2
Potassium (K ⁺)	mg/l	12	2.4	3.1	3.7	3.0	3.6	3.6	3.3	2.6	2.7
Calcium (Ca ²⁺)	mg/l	12	48.0	52.6	68.0	50.6	57.6	55.3	50.9	49.1	55.0
Magnesium (Mg ²⁺)	mg/l	12	4.8	12.9	26.9	12.1	14.4	12.2	12.2	16.8	10.4
Chloride (Cl ⁻)	mg/l	12	9	20	25	21	24	22	21	22	16
Sulphate (SO ₄ ²⁻)	mg/l	12	10	42	89	44	48	44	42	52	30
Iron (Fe)	mg/l	9	0.07	0.60	1.85	0.38	1.36		1.05	0.31	0.43
Manganese (Mn)	mg/l	9	0.003	0.023	0.121	0.011	0.048		0.055	0.007	0.008
Zinc (Zn)	µg/l	9	6.0	18.8	48.0	17.0	28.0		14.0	29.3	13.0
Copper (Cu)	µg/l	9	5.0	12.7	34.0	10.0	18.0		11.0	15.7	11.3
Chromium (Cr) - total	µg/l	7	6.0	14.3	28.0	10.0	23.8		16.0	13.5	12.5
Lead (Pb)	µg/l	4	3.0	13.5	35.0						
Cadmium (Cd)	µg/l	4	0.30	0.44	0.58						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	3.0	8.9	32.0	5.0	17.6		9.0	12.7	5.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.5	2.5	3.5	2.7	3.4	3.3	2.4	2.3	2.0
COD _{Cr}	mg/l	6	9.9	12.3	13.7	12.7	13.7	13.4	11.2		
COD _{Mn}	mg/l	12	2.8	4.0	5.2	4.0	4.8	4.8	4.2	3.5	3.4
DOC	mg/l										
Phenol index	mg/l	10	0.001	0.002	0.003	0.002	0.003	0.001	0.002	0.002	0.003
Anionic active surfactants	mg/l	6	0.010	0.020	0.030	0.020	0.025	0.017	0.023		
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.006	0.028	0.050						
pp' DDT	µg/l	2	0.050	0.050	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	5	0.070	0.321	1.000	0.220	0.688	0.000	1.000	0.220	0.083
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1		2.2							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	R002
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3290.0	6092.0	10080.0	5163.5	8466.7	6171.7	7035.3	4320.0	6841.0
Temperature	°C	12	0.9	13.2	23.5	15.1	23.0	1.4	19.2	22.5	9.5
Suspended Solids	mg/l	12	16	55	87	62	86	85	32	53	52
Dissolved Oxygen	mg/l	12	5.8	8.6	12.9	8.5	6.0	11.6	7.0	6.3	9.4
pH	-	12	7.3	7.6	8.0	7.6	7.8	7.7	7.4	7.5	7.6
Conductivity @ 20°C	µS/cm	6	335	355	370	358	370			367	343
Alkalinity	mmol/l	12	2.5	3.0	3.8	3.0	3.6	3.5	2.8	2.8	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.03	0.23	0.82	0.22	0.34	0.42	0.13	0.11	0.27
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.038	0.070	0.030	0.060	0.020	0.050	0.047	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.45	1.44	2.29	1.33	2.21	1.21	1.51	1.18	1.86
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.106	0.600	0.055	0.126	0.050	0.073	0.070	0.230
Total Phosphorus	mg/l	12	0.06	0.11	0.17	0.11	0.16	0.10	0.12	0.15	0.08
Sodium (Na ⁺)	mg/l	4	10.3	11.8	13.0						
Potassium (K ⁺)	mg/l	4	2.5	2.7	3.0						
Calcium (Ca ²⁺)	mg/l	12	48.0	54.5	65.4	52.7	62.1	62.7	50.3	50.5	54.5
Magnesium (Mg ²⁺)	mg/l	12	10.7	15.0	23.3	14.4	20.0	18.1	13.7	13.7	14.5
Chloride (Cl ⁻)	mg/l	12	17	21	24	22	24	22	21	24	19
Sulphate (SO ₄ ²⁻)	mg/l	12	27	47	66	48	57	55	52	41	41
Iron (Fe)	mg/l	10	0.13	0.32	0.93	0.28	0.36	0.51	0.27	0.19	0.27
Manganese (Mn)	mg/l	10	0.006	0.047	0.100	0.055	0.068	0.044	0.047	0.062	0.006
Zinc (Zn)	µg/l	8	6.0	38.3	167.0	19.5	87.9	19.0	26.7	67.0	6.0
Copper (Cu)	µg/l	7	1.0	10.4	31.0	9.0	18.4		16.7	4.3	10.0
Chromium (Cr) - total	µg/l	10	6.0	14.0	41.0	10.5	26.6	25.9	9.7	8.3	8.0
Lead (Pb)	µg/l	7	3.0	12.1	26.0	14.0	21.2		16.0	11.0	4.0
Cadmium (Cd)	µg/l	5	0.09	0.80	1.40	1.09	1.38		1.25	0.09	1.34
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	3.0	8.0	14.0	7.0	10.8	8.0	6.7	9.7	7.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.2	2.5	3.7	2.5	3.4	3.4	2.4	2.1	2.3
COD _{Cr}	mg/l	12	10.2	13.2	18.7	13.1	15.3	15.1	12.7	12.7	12.5
COD _{Mn}	mg/l	12	3.0	6.6	10.9	6.6	9.6	9.8	4.9	5.9	5.8
DOC	mg/l										
Phenol index	mg/l	10	0.000	0.002	0.004	0.001	0.003	0.001	0.002	0.001	0.002
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.004	0.004						
pp'DDT	µg/l	2	0.002	0.010	0.018						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	4	0.005	0.445	1.600						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	4	0.000	0.092	0.350						
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	7	1.9	2.0	2.2	2.1	2.1		2.1	2.1	2.0
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	R002
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3290.0	6092.0	10080.0	5163.5	8466.7	6171.7	7035.3	4320.0	6841.0
Temperature	°C	10	1.2	15.4	23.5	16.7	23.1	1.2	19.0	22.4	9.4
Suspended Solids	mg/l	10	15	46	70	58	65	70	32	47	49
Dissolved Oxygen	mg/l	10	6.2	8.0	10.8	7.5	6.2	10.7	7.1	6.5	9.5
pH	-	10	7.4	7.6	7.9	7.6	7.9	7.9	7.6	7.5	7.7
Conductivity @ 20°C	µS/cm	6	335	355	370	358	370			365	345
Alkalinity	mmol/l	10	2.5	2.9	3.3	3.0	3.1	3.1	2.7	2.9	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.25	0.86	0.20	0.38	0.44	0.12	0.15	0.29
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.037	0.070	0.030	0.060	0.020	0.047	0.043	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.94	1.59	2.65	1.69	1.95	1.65	1.92	1.31	1.49
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.030	0.057	0.110	0.050	0.078	0.047	0.070	0.063	0.047
Total Phosphorus	mg/l	12	0.06	0.11	0.17	0.10	0.16	0.09	0.12	0.15	0.08
Sodium (Na ⁺)	mg/l	12	10.3	12.8	17.1	12.5	15.5	14.4	12.0	12.8	12.0
Potassium (K ⁺)	mg/l	12	2.0	2.6	2.9	2.7	2.9	2.8	2.5	2.5	2.5
Calcium (Ca ²⁺)	mg/l	12	11.2	47.3	61.0	49.0	59.7	58.7	48.5	42.3	39.6
Magnesium (Mg ²⁺)	mg/l	12	10.4	12.8	17.5	11.7	16.3	14.8	12.3	11.1	12.9
Chloride (Cl ⁻)	mg/l	12	13	20	25	21	22	18	19	22	19
Sulphate (SO ₄ ²⁻)	mg/l	12	24	40	54	42	50	43	49	30	40
Iron (Fe)	mg/l	12	0.10	0.25	0.45	0.25	0.39	0.37	0.16	0.16	0.33
Manganese (Mn)	mg/l	11	0.020	0.059	0.160	0.050	0.072	0.050	0.037	0.088	0.058
Zinc (Zn)	µg/l	11	10.0	26.1	59.0	20.0	40.0	15.0	20.0	36.3	29.3
Copper (Cu)	µg/l	11	8.0	21.3	40.0	20.0	40.0	10.0	18.0	33.3	20.0
Chromium (Cr) - total	µg/l	11	10.0	13.2	20.0	10.0	20.0	15.0	13.3	10.0	15.0
Lead (Pb)	µg/l	11	2.0	14.5	32.0	10.0	28.0	10.0	10.7	8.3	27.3
Cadmium (Cd)	µg/l	8	0.10	0.81	1.30	0.95	1.21	0.10	1.21	0.51	0.97
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	10.0	15.0	38.0	10.0	29.2	10.0	15.7	19.3	10.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.2	2.3	3.7	2.3	3.1	3.0	2.2	1.8	2.3
COD _{Cr}	mg/l	12	9.7	13.7	25.4	13.1	15.8	13.2	15.8	13.2	12.6
COD _{Mn}	mg/l	12	2.4	3.8	4.9	4.1	4.5	4.6	4.2	2.6	3.7
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.002	0.004	0.001	0.003	0.002	0.002	0.002	0.002
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.012	0.020						
pp' DDT	µg/l	2	0.002	0.012	0.022						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	4	0.013	0.284	0.920						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	4	0.001	0.004	0.008						
Faecal Streptococci	x10 ³ CFU/100 ml	2	0.000	0.001	0.001						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	7	1.8	1.9	2.1	2.0	2.1		1.9	1.9	2.1
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	R002
Distance from the mouth [km]	834.0	Altitude	31 m	
Location	Pristol/Novo Selo Harbour R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3290.0	6092.0	10080.0	5163.5	8466.7	6171.7	7035.3	4320.0	6841.0
Temperature	°C	10	1.4	15.6	23.5	17.2	23.1	1.4	19.3	22.6	9.5
Suspended Solids	mg/l	10	18	50	89	62	73	89	36	51	49
Dissolved Oxygen	mg/l	10	5.9	7.7	10.4	7.6	6.0	10.1	7.1	6.1	9.1
pH	-	10	7.0	7.5	8.1	7.5	8.0	8.1	7.5	7.3	7.6
Conductivity @ 20°C	µS/cm	6	337	363	379	370	379			373	354
Alkalinity	mmol/l	10	2.6	2.9	3.2	3.0	3.1	3.2	2.8	2.8	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.04	0.28	0.93	0.22	0.39	0.50	0.15	0.16	0.29
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.041	0.080	0.035	0.069	0.027	0.053	0.043	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.90	1.72	2.94	1.70	2.55	1.71	2.02	1.19	1.96
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.040	0.063	0.110	0.060	0.107	0.057	0.073	0.077	0.047
Total Phosphorus	mg/l	12	0.06	0.18	0.80	0.12	0.17	0.11	0.12	0.15	0.32
Sodium (Na ⁺)	mg/l	12	10.2	13.0	16.5	12.9	16.0	14.3	12.4	13.0	12.4
Potassium (K ⁺)	mg/l	12	2.2	2.7	3.0	2.8	3.0	2.9	2.8	2.6	2.6
Calcium (Ca ²⁺)	mg/l	12	39.6	52.1	62.7	53.5	60.9	59.9	49.3	43.1	56.0
Magnesium (Mg ²⁺)	mg/l	12	10.0	13.6	18.5	13.2	16.5	15.1	12.1	11.3	15.8
Chloride (Cl ⁻)	mg/l	12	13	20	26	20	23	18	19	22	20
Sulphate (SO ₄ ²⁻)	mg/l	12	25	45	68	43	60	42	55	33	51
Iron (Fe)	mg/l	12	0.08	0.29	0.53	0.30	0.50	0.41	0.21	0.17	0.38
Manganese (Mn)	mg/l	9	0.002	0.065	0.150	0.060	0.102	0.090	0.053	0.080	0.002
Zinc (Zn)	µg/l	11	10.0	30.0	100.0	20.0	40.0	15.0	23.3	46.7	30.0
Copper (Cu)	µg/l	11	9.0	30.9	97.0	20.0	91.0	10.0	40.0	47.0	19.7
Chromium (Cr) - total	µg/l	11	10.0	21.8	120.0	10.0	20.0	15.0	46.7	10.0	13.3
Lead (Pb)	µg/l	9	1.0	8.8	20.0	10.0	12.0	10.0	10.3	8.0	4.0
Cadmium (Cd)	µg/l	6	0.10	0.65	1.00	0.80	1.00	0.10	0.86	0.60	0.88
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	9	3.0	8.7	11.0	10.0	10.2	10.0	5.7	10.3	10.0
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.0	2.4	3.8	2.4	3.2	3.2	2.3	1.7	2.3
COD _{Cr}	mg/l	12	9.0	12.9	20.3	11.8	16.7	14.7	11.4	12.0	13.5
COD _{Mn}	mg/l	12	2.3	3.9	4.7	4.3	4.5	4.4	4.4	2.8	3.9
DOC	mg/l										
Phenol index	mg/l	12	0.001	0.002	0.004	0.001	0.003	0.001	0.002	0.002	0.002
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.005	0.006						
pp DDT	µg/l	2	0.002	0.009	0.016						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	4	0.011	0.418	1.600						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	4	0.001	0.007	0.024						
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.000							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	7									
Macrozoobenthos	sapr.index	7	1.8	2.1	2.5	2.2	2.4		2.1	2.0	2.4
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	676150 km ²	R003
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	6	3770.0	6585.7	10630.0	6485.5	9331.5		7370.0	3770.0	7001.3
Temperature	°C	6	5.5	16.0	25.0	18.0	24.3		23.0	23.5	8.8
Suspended Solids	mg/l	6	19	42	78	36	67		22	34	57
Dissolved Oxygen	mg/l	6	5.8	7.8	9.3	8.3	6.0		6.6	6.1	9.2
pH	-	6	7.3	7.7	8.0	7.7	8.0		7.4	7.5	7.9
Conductivity @ 20°C	µS/cm	6	307	376	396	389	396		390	395	361
Alkalinity	mmol/l	6	2.5	2.6	2.7	2.6	2.7		2.6	2.6	2.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.18	0.22	0.25	0.22	0.24		0.22	0.25	0.20
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.010	0.040	0.080	0.035	0.075		0.060	0.080	0.013
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.88	1.83	3.80	1.54	2.99		2.34	1.05	1.75
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.020	0.062	0.100	0.065	0.085		0.035	0.070	0.077
Total Phosphorus	mg/l	6	0.07	0.12	0.19	0.12	0.17		0.09	0.13	0.14
Sodium (Na ⁺)	mg/l	6	13.8	16.2	18.3	16.2	17.6		16.6	18.3	15.2
Potassium (K ⁺)	mg/l	6	3.1	3.7	4.0	3.8	4.0		3.5	4.0	3.7
Calcium (Ca ²⁺)	mg/l	6	46.0	55.3	66.0	54.0	65.0		54.0	48.0	58.7
Magnesium (Mg ²⁺)	mg/l	6	12.6	13.3	14.0	13.2	13.9		12.9	13.2	13.5
Chloride (Cl ⁻)	mg/l	6	23	26	28	26	28		25	28	26
Sulphate (SO ₄ ²⁻)	mg/l	6	39	46	54	47	52		52	41	44
Iron (Fe)	mg/l	6	0.02	0.39	0.75	0.32	0.69		0.39	0.63	0.30
Manganese (Mn)	mg/l	3	0.004	0.048	0.102						
Zinc (Zn)	µg/l	3	1.0	192.3	523.0						
Copper (Cu)	µg/l	3	1.0	14.3	30.0						
Chromium (Cr) - total	µg/l	3	9.0	57.7	150.0						
Lead (Pb)	µg/l	3	4.0	33.0	54.0						
Cadmium (Cd)	µg/l	3	0.50	0.58	0.72						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	6.0	10.7	13.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	2.5	2.8	3.4	2.7	3.3		2.9	3.4	2.6
COD _{Cr}	mg/l	2	5.2	7.5	9.8						
COD _{Mn}	mg/l	6	3.2	4.0	4.7	4.2	4.5		4.2	3.2	4.2
DOC	mg/l										
Phenol index	mg/l	6	0.001	0.003	0.007	0.002	0.006		0.005	0.007	0.001
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.004	0.004						
pp' DDT	µg/l	2	0.002	0.003	0.004						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	3	1.8	2.0	2.1						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	676150 km ²	RO03
Distance from the mouth [km]	432.0	Altitude	16 m	
Location	us.Arges M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	6	3770.0	6585.7	10630.0	6485.5	9331.5		7370.0	3770.0	6744.0
Temperature	°C	5	5.4	16.3	25.0	21.0	24.6		23.0	24.0	5.7
Suspended Solids	mg/l	5	16	38	70	25	65		20	25	64
Dissolved Oxygen	mg/l	5	6.0	7.7	9.5	7.5	6.1		6.8	6.3	9.5
pH	-	5	7.5	7.7	8.0	7.7	8.0		7.6	7.7	8.0
Conductivity @ 20°C	µS/cm	5	312	368	392	374	390		383	374	350
Alkalinity	mmol/l	5	2.3	2.6	2.8	2.6	2.7		2.6	2.5	2.6
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.16	0.19	0.23	0.19	0.22		0.19	0.23	0.18
Nitrite-N (NO ₂ ⁻ -N)	mg/l	5	0.010	0.044	0.070	0.060	0.066		0.060	0.070	0.020
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.95	1.78	3.59	1.55	2.74		2.27	1.17	1.55
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.050	0.072	0.100	0.070	0.090		0.075	0.060	0.080
Total Phosphorus	mg/l	5	0.08	0.13	0.16	0.15	0.16		0.15	0.08	0.15
Sodium (Na ⁺)	mg/l	5	13.9	15.2	15.9	15.6	15.8		14.6	15.9	15.6
Potassium (K ⁺)	mg/l	5	2.8	3.3	3.8	3.4	3.8		3.1	2.8	3.8
Calcium (Ca ²⁺)	mg/l	5	48.0	55.6	64.0	53.0	62.4		53.0	48.0	62.0
Magnesium (Mg ²⁺)	mg/l	5	12.0	12.6	13.2	12.6	13.0		12.9	12.6	12.3
Chloride (Cl ⁻)	mg/l	5	22	26	28	27	28		25	27	28
Sulphate (SO ₄ ²⁻)	mg/l	5	38	44	49	45	48		43	38	48
Iron (Fe)	mg/l	5	0.01	0.30	0.56	0.30	0.49		0.29	0.39	0.28
Manganese (Mn)	mg/l	3	0.004	0.035	0.069						
Zinc (Zn)	µg/l	3	1.0	115.7	332.0						
Copper (Cu)	µg/l	3	1.0	22.3	55.0						
Chromium (Cr) - total	µg/l	3	6.0	11.3	16.0						
Lead (Pb)	µg/l	3	1.0	14.3	27.0						
Cadmium (Cd)	µg/l	3	0.27	0.57	1.00						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	3.0	26.0	40.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	2.1	2.7	3.1	2.9	3.0		2.5	3.1	2.5
COD _{Cr}	mg/l	1		8.7							
COD _{Mn}	mg/l	5	3.1	3.8	4.3	4.0	4.2		4.1	3.1	3.9
DOC	mg/l										
Phenol index	mg/l	5	0.001	0.003	0.006	0.003	0.006		0.004	0.006	0.001
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.004	0.004						
pp' DDT	µg/l	2	0.002	0.026	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1		1.8							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	R004
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3350.0	6445.8	10500.0	6235.0	9080.4	5935.3	7910.0	5223.3	6714.7
Temperature	°C	11	2.0	15.3	26.5	16.5	24.0	3.3	22.3	22.2	12.2
Suspended Solids	mg/l	11	10	62	134	36	112	100	63	50	18
Dissolved Oxygen	mg/l	11	5.7	7.4	8.9	7.5	5.9	8.1	6.5	6.9	8.6
pH	-	11	7.5	7.9	8.3	7.9	8.3	7.8	7.9	8.0	7.7
Conductivity @ 20°C	µS/cm	6	368	407	463	400	452			390	424
Alkalinity	mmol/l	12	2.5	3.0	3.6	2.9	3.5	3.5	2.7	2.7	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.16	0.49	1.78	0.34	0.77	0.98	0.26	0.40	0.31
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.037	0.070	0.035	0.060	0.020	0.043	0.047	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	0.71	1.52	2.66	1.54	1.86	1.65	1.64	1.09	1.72
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.063	0.090	0.065	0.080	0.053	0.043	0.077	0.077
Total Phosphorus	mg/l	12	0.08	0.12	0.15	0.12	0.13	0.12	0.10	0.12	0.13
Sodium (Na ⁺)	mg/l	12	14.5	20.6	26.5	19.2	25.8	25.6	20.5	19.5	16.8
Potassium (K ⁺)	mg/l	12	2.0	3.9	5.0	4.1	4.8	4.3	3.6	4.3	3.2
Calcium (Ca ²⁺)	mg/l	12	48.0	55.4	62.9	55.5	59.7	56.3	56.3	50.7	58.1
Magnesium (Mg ²⁺)	mg/l	12	12.0	16.7	21.6	15.6	21.1	18.8	14.9	16.3	16.7
Chloride (Cl ⁻)	mg/l	12	22	33	42	36	42	41	29	35	29
Sulphate (SO ₄ ²⁻)	mg/l	12	30	53	71	55	62	61	58	49	43
Iron (Fe)	mg/l	9	0.07	0.25	0.74	0.11	0.62	0.09	0.48	0.18	
Manganese (Mn)	mg/l	6	0.038	0.063	0.084	0.066	0.083		0.072	0.038	0.066
Zinc (Zn)	µg/l	6	23.0	95.2	314.0	54.0	201.5		54.0	314.0	49.7
Copper (Cu)	µg/l	6	1.0	22.0	44.0	22.0	38.0		27.5	1.0	25.3
Chromium (Cr) - total	µg/l	6	1.0	10.2	18.0	12.0	15.5		15.5	11.0	6.3
Lead (Pb)	µg/l	6	1.0	19.7	42.0	17.0	36.0		25.0	11.0	19.0
Cadmium (Cd)	µg/l	6	0.33	0.70	0.97	0.74	0.92		0.74	0.87	0.61
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	7	5.0	22.3	51.0	5.0	46.2	5.0	32.7	24.0	
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	11	1.9	2.9	3.7	3.1	3.3	3.4	2.8	2.7	2.5
COD _{Cr}	mg/l	11	8.9	11.8	15.2	10.2	15.0	9.4	13.0	11.5	14.1
COD _{Mn}	mg/l	12	3.0	5.3	10.1	4.2	9.2	9.1	4.0	3.5	4.5
DOC	mg/l										
Phenol index	mg/l	11	0.003	0.012	0.026	0.011	0.024	0.015	0.011	0.016	0.004
Anionic active surfactants	mg/l	6	0.011	0.027	0.038	0.028	0.035	0.029		0.019	0.038
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.006	0.028	0.050						
pp' DDT	µg/l	2	0.008	0.029	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	6	0.024	0.208	0.920	0.054	0.540		0.472	0.035	0.089
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	6	0.001	0.012	0.025	0.011	0.025		0.013	0.024	0.007
Faecal Streptococci	x10 ³ CFU/100 ml	3	0.000	0.000	0.000						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	7	1.8	2.0	2.1	2.0	2.1	2.0	2.0	2.0	2.0
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	R004
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3350.0	6445.8	10500.0	6235.0	9080.4	5935.3	7910.0	5223.3	6714.7
Temperature	°C	11	2.0	15.2	26.5	17.0	24.0	3.3	22.3	22.2	11.9
Suspended Solids	mg/l	11	13	63	129	38	120	101	63	54	19
Dissolved Oxygen	mg/l	11	6.1	7.7	9.1	7.8	6.4	8.3	6.9	7.1	8.8
pH	-	11	7.5	7.9	8.4	7.8	8.3	7.7	8.0	8.0	7.8
Conductivity @ 20°C	µS/cm	6	369	393	436	386	418			385	402
Alkalinity	mmol/l	12	2.4	2.9	3.5	2.9	3.5	3.4	2.6	2.7	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.12	0.44	1.24	0.35	1.06	0.70	0.19	0.53	0.34
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.029	0.060	0.025	0.050	0.017	0.037	0.037	0.027
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.22	1.58	2.03	1.61	2.00	1.68	1.53	1.41	1.68
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.020	0.060	0.080	0.060	0.079	0.053	0.043	0.067	0.077
Total Phosphorus	mg/l	12	0.09	0.12	0.15	0.12	0.15	0.11	0.10	0.12	0.13
Sodium (Na ⁺)	mg/l	12	13.8	19.2	26.2	16.5	25.0	24.4	18.0	18.6	15.8
Potassium (K ⁺)	mg/l	12	1.8	3.6	4.2	3.9	4.2	4.1	3.4	3.7	3.1
Calcium (Ca ²⁺)	mg/l	12	42.6	55.3	62.0	57.2	59.7	57.6	56.0	50.1	57.5
Magnesium (Mg ²⁺)	mg/l	12	12.0	17.0	22.8	16.7	20.9	19.5	14.6	17.2	16.7
Chloride (Cl ⁻)	mg/l	12	22	31	45	29	39	40	28	31	27
Sulphate (SO ₄ ²⁻)	mg/l	12	31	52	70	56	60	58	55	52	40
Iron (Fe)	mg/l	9	0.03	0.22	0.75	0.10	0.46	0.08	0.41	0.17	
Manganese (Mn)	mg/l	6	0.031	0.064	0.100	0.055	0.095		0.055	0.031	0.081
Zinc (Zn)	µg/l	6	47.0	113.7	413.0	54.0	239.0		49.0	413.0	57.0
Copper (Cu)	µg/l	6	1.0	23.2	37.0	28.0	36.0		23.5	1.0	30.3
Chromium (Cr) - total	µg/l	6	5.0	9.3	19.0	8.5	14.5		14.5	9.0	6.0
Lead (Pb)	µg/l	6	1.0	24.2	62.0	15.0	51.5		26.0	16.0	25.7
Cadmium (Cd)	µg/l	6	0.17	0.39	0.59	0.40	0.51		0.50	0.39	0.31
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	7	5.0	21.1	42.0	24.0	37.8	5.0	32.7	20.0	
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.7	2.8	3.6	2.9	3.5	3.2	2.7	2.6	2.8
COD _{Cr}	mg/l	11	8.8	11.1	18.0	10.0	12.8	9.2	11.6	9.9	15.1
COD _{Mn}	mg/l	12	2.2	5.3	10.1	4.1	10.0	9.7	3.5	3.4	4.8
DOC	mg/l										
Phenol index	mg/l	11	0.003	0.009	0.017	0.011	0.015	0.013	0.006	0.009	0.010
Anionic active surfactants	mg/l	6	0.010	0.023	0.042	0.017	0.039	0.023		0.014	0.042
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.003	0.004						
pp' DDT	µg/l	2	0.012	0.031	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	6	0.003	0.154	0.540	0.014	0.445		0.014	0.003	0.298
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	6	0.000	0.005	0.013	0.004	0.009		0.004	0.001	0.006
Faecal Streptococci	x10 ³ CFU/100 ml	2	0.000	0.000	0.000						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	6									
Macrozoobenthos	sapr.index	6	2.0	2.1	2.2	2.1	2.2		2.0	2.2	2.1
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	RO04
Distance from the mouth [km]	375.0	Altitude	13 m	
Location	Chiciu/Silistra R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	3350.0	6445.8	10500.0	6235.0	9080.4	5935.3	7910.0	5223.3	6714.7
Temperature	°C	11	2.0	15.2	26.5	17.0	24.0	3.3	22.3	22.2	12.0
Suspended Solids	mg/l	11	15	66	147	39	121	103	71	55	20
Dissolved Oxygen	mg/l	11	5.8	7.6	10.0	7.8	6.1	8.4	6.4	7.1	9.3
pH	-	11	7.5	7.9	8.4	7.9	8.3	7.9	7.9	8.0	7.7
Conductivity @ 20°C	µS/cm	6	369	398	437	395	419			390	406
Alkalinity	mmol/l	12	2.6	3.0	3.6	2.9	3.5	3.3	2.9	2.7	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.16	0.35	0.85	0.29	0.61	0.45	0.23	0.42	0.29
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.036	0.070	0.035	0.060	0.020	0.047	0.043	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.02	1.57	2.23	1.60	1.82	1.59	1.62	1.46	1.61
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.040	0.060	0.080	0.065	0.080	0.040	0.050	0.073	0.077
Total Phosphorus	mg/l	12	0.08	0.11	0.13	0.12	0.13	0.11	0.10	0.11	0.13
Sodium (Na ⁺)	mg/l	12	12.7	18.5	25.8	16.7	24.9	22.6	17.1	18.4	15.8
Potassium (K ⁺)	mg/l	12	1.8	3.6	4.7	3.9	4.3	4.2	3.6	3.7	3.1
Calcium (Ca ²⁺)	mg/l	12	48.1	56.8	63.1	57.7	62.6	57.6	57.7	53.1	58.8
Magnesium (Mg ²⁺)	mg/l	12	12.0	17.4	24.4	16.3	23.2	19.8	16.4	16.7	16.7
Chloride (Cl ⁻)	mg/l	12	23	32	42	32	41	40	30	33	27
Sulphate (SO ₄ ²⁻)	mg/l	12	33	55	71	58	66	59	63	56	41
Iron (Fe)	mg/l	9	0.07	0.25	0.73	0.11	0.50	0.10	0.44	0.20	
Manganese (Mn)	mg/l	6	0.032	0.061	0.083	0.061	0.082		0.057	0.032	0.074
Zinc (Zn)	µg/l	6	13.6	87.1	345.0	22.5	224.5		22.0	345.0	44.5
Copper (Cu)	µg/l	6	10.0	38.7	66.0	35.5	65.0		37.0	21.0	45.7
Chromium (Cr) - total	µg/l	6	5.0	12.8	30.0	9.5	22.5		12.0	10.0	14.3
Lead (Pb)	µg/l	6	1.0	22.2	55.0	11.0	54.0		28.0	7.0	23.3
Cadmium (Cd)	µg/l	6	0.11	0.58	1.46	0.47	1.03		0.47	0.11	0.81
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	7	5.0	19.9	42.0	9.0	41.4	5.0	30.7	18.5	
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.8	2.8	4.0	2.9	3.4	2.4	3.0	2.7	3.0
COD _{Cr}	mg/l	11	8.9	11.2	18.0	10.2	14.7	9.4	12.1	10.0	14.8
COD _{Mn}	mg/l	12	2.5	5.5	10.1	4.2	9.7	9.7	3.7	3.6	5.0
DOC	mg/l										
Phenol index	mg/l	11	0.004	0.016	0.032	0.017	0.028	0.022	0.014	0.019	0.006
Anionic active surfactants	mg/l	6	0.013	0.029	0.045	0.030	0.042	0.025		0.026	0.045
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.027	0.050						
pp' DDT	µg/l	2	0.018	0.034	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	6	0.001	0.087	0.350	0.005	0.255		0.081	0.006	0.119
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	6	0.001	0.005	0.022	0.002	0.013		0.012	0.002	0.002
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.000							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	6									
Macrozoobenthos	sapr.index	6	1.8	2.0	2.2	1.9	2.1		2.0	2.0	1.9
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4 m	
Location	Reni - Chilia/Kilia arm L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	4200.0	7035.8	11710.0	6305.0	10320.0	6572.3	9023.3	5256.7	7290.7
Temperature	°C	12	0.5	14.3	28.0	16.1	24.8	1.0	22.7	23.7	9.7
Suspended Solids	mg/l	12	9	42	132	35	65	30	36	69	31
Dissolved Oxygen	mg/l	11	5.9	8.6	12.7	8.2	6.2	11.9	6.6	7.1	9.1
pH	-	11	7.0	7.5	8.1	7.5	7.7	7.5	7.4	7.5	7.7
Conductivity @ 20°C	µS/cm	6	395	438	485	428	484			461	415
Alkalinity	mmol/l	7	2.7	3.0	3.8	3.0	3.4	3.8	2.7	2.8	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.14	0.32	0.47	0.31	0.47	0.44	0.21	0.24	0.37
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.010	0.043	0.080	0.040	0.060	0.033	0.057	0.050	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.16	1.76	2.05	1.84	2.04	2.03	1.61	1.58	1.83
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.050	0.068	0.080	0.070	0.080	0.067	0.070	0.057	0.079
Total Phosphorus	mg/l	11	0.07	0.10	0.13	0.11	0.12	0.10	0.12	0.08	0.11
Sodium (Na ⁺)	mg/l	12	14.8	18.9	23.3	18.3	22.5	17.9	22.4	19.0	16.1
Potassium (K ⁺)	mg/l	12	1.2	7.5	16.4	5.1	12.4	9.6	8.3	9.0	3.2
Calcium (Ca ²⁺)	mg/l	12	51.2	57.8	67.2	56.1	62.2	59.8	54.1	55.7	61.8
Magnesium (Mg ²⁺)	mg/l	12	10.4	12.9	18.7	12.3	14.9	11.8	11.7	12.5	15.7
Chloride (Cl ⁻)	mg/l	12	21	29	40	28	35	29	29	32	28
Sulphate (SO ₄ ²⁻)	mg/l	12	30	47	61	47	60	41	56	48	43
Iron (Fe)	mg/l	9	0.04	0.36	0.93	0.20	0.83	0.17	0.64	0.26	0.15
Manganese (Mn)	mg/l	6	0.058	0.097	0.151	0.092	0.138		0.092	0.067	0.111
Zinc (Zn)	µg/l	6	3.0	79.0	253.0	60.5	163.5		13.0	253.0	65.0
Copper (Cu)	µg/l	6	1.0	17.8	31.0	18.0	29.0		15.5	1.0	25.0
Chromium (Cr) - total	µg/l	6	4.0	7.5	14.0	6.5	12.0		7.0	14.0	5.7
Lead (Pb)	µg/l	6	1.0	40.3	166.0	19.0	100.5		6.0	35.0	65.0
Cadmium (Cd)	µg/l	6	0.52	1.23	2.82	0.99	2.18		1.27	0.52	1.45
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	4.0	14.7	34.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.4	2.8	3.9	2.9	3.4	2.1	3.0	3.4	2.7
COD _{Cr}	mg/l	8	8.9	12.5	16.0	12.8	15.3	11.3	12.4	13.2	14.2
COD _{Mn}	mg/l	11	3.1	4.7	10.3	4.2	6.8	3.5	4.4	6.0	5.0
DOC	mg/l										
Phenol index	mg/l	9	0.004	0.008	0.019	0.007	0.012	0.015	0.006	0.007	0.004
Anionic active surfactants	mg/l	6	0.010	0.052	0.150	0.032	0.107	0.080	0.030	0.028	0.064
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.005	0.006						
pp' DDT	µg/l	2	0.010	0.030	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	5	0.005	0.068	0.160	0.056	0.134		0.050	0.024	0.108
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	5	0.000	0.034	0.160	0.003	0.097		0.003	0.001	0.080
Faecal Streptococci	x10 ³ CFU/100 ml	3	0.000	0.001	0.003						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	8	1.2	1.8	2.2	1.9	2.2	1.6	1.9	1.7	1.8
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4 m	
Location	Reni - Chilia/Kilia arm M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	4200.0	7035.8	11710.0	6305.0	10320.0	6572.3	9023.3	5256.7	7290.7
Temperature	°C	12	0.5	14.3	28.0	16.1	24.8	1.2	22.7	23.7	9.8
Suspended Solids	mg/l	12	14	37	100	31	54	35	34	55	24
Dissolved Oxygen	mg/l	11	6.2	9.0	12.4	8.5	6.5	12.1	7.3	7.3	9.6
pH	-	11	7.0	7.5	8.0	7.5	7.7	7.5	7.4	7.6	7.7
Conductivity @ 20°C	µS/cm	6	401	438	490	425	487			459	417
Alkalinity	mmol/l	7	2.6	2.9	3.8	2.9	3.4	3.8	2.6	2.6	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.15	0.27	0.41	0.27	0.39	0.32	0.17	0.22	0.36
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.020	0.046	0.070	0.044	0.069	0.027	0.060	0.059	0.037
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.01	1.79	2.27	1.97	2.16	2.17	1.74	1.36	1.88
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.040	0.074	0.090	0.080	0.090	0.070	0.080	0.061	0.085
Total Phosphorus	mg/l	12	0.08	0.10	0.12	0.10	0.12	0.10	0.11	0.09	0.11
Sodium (Na ⁺)	mg/l	12	15.5	18.3	23.2	17.7	20.7	17.4	20.3	19.0	16.3
Potassium (K ⁺)	mg/l	12	1.4	7.2	13.3	6.1	11.9	9.9	6.7	8.9	3.2
Calcium (Ca ²⁺)	mg/l	12	52.8	57.6	68.8	56.9	62.0	60.8	53.9	55.1	60.4
Magnesium (Mg ²⁺)	mg/l	12	10.6	13.0	19.9	12.0	14.9	11.4	11.8	12.5	16.4
Chloride (Cl ⁻)	mg/l	12	23	29	39	28	35	28	28	32	28
Sulphate (SO ₄ ²⁻)	mg/l	12	33	45	63	47	53	42	49	46	43
Iron (Fe)	mg/l	9	0.04	0.35	1.18	0.20	1.01	0.14	0.80	0.08	0.20
Manganese (Mn)	mg/l	6	0.045	0.102	0.233	0.085	0.166		0.093	0.064	0.120
Zinc (Zn)	µg/l	6	9.0	96.5	351.0	21.5	255.0		15.5	351.0	65.7
Copper (Cu)	µg/l	6	1.0	25.8	67.0	24.5	47.5		17.5	1.0	39.7
Chromium (Cr) - total	µg/l	6	4.0	11.0	22.0	9.5	17.5		9.0	22.0	8.7
Lead (Pb)	µg/l	6	1.0	21.8	60.0	18.5	44.5		5.5	27.0	31.0
Cadmium (Cd)	µg/l	6	0.10	0.82	1.80	0.51	1.77		1.77	0.71	0.21
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	10.0	21.3	36.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	1.9	2.8	3.8	2.8	3.4	2.4	2.7	3.2	2.8
COD _{Cr}	mg/l	8	8.8	12.0	20.0	11.3	14.9	10.2	10.9	12.0	15.8
COD _{Mn}	mg/l	11	2.8	4.6	10.3	4.0	7.0	3.4	4.2	6.1	4.7
DOC	mg/l										
Phenol index	mg/l	8	0.004	0.008	0.012	0.008	0.011	0.012	0.005	0.009	0.007
Anionic active surfactants	mg/l	5	0.023	0.043	0.076	0.030	0.072	0.076	0.030	0.023	0.065
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.026	0.050						
pp' DDT	µg/l	2	0.006	0.028	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	5	0.001	0.413	1.600	0.092	1.072		0.141	0.092	0.846
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	5	0.000	0.026	0.092	0.007	0.067		0.001	0.007	0.061
Faecal Streptococci	x10 ³ CFU/100 ml	3	0.000	0.002	0.002						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	8	1.2	1.8	2.1	1.9	2.1	1.5	1.9	1.6	1.9
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	805700 km ²	RO05
Distance from the mouth [km]	132.0	Altitude	4 m	
Location	Reni - Chilia/Kilia arm R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	4200.0	7035.8	11710.0	6305.0	10320.0	6572.3	9023.3	5256.7	7290.7
Temperature	°C	12	0.5	14.3	28.0	16.1	24.8	1.0	22.7	23.7	9.8
Suspended Solids	mg/l	12	11	32	88	29	44	29	26	50	23
Dissolved Oxygen	mg/l	11	6.1	8.6	12.5	8.4	6.2	11.4	7.0	7.0	9.4
pH	-	11	7.0	7.5	8.1	7.5	7.7	7.5	7.4	7.6	7.7
Conductivity @ 20°C	µS/cm	6	400	437	485	425	484			458	416
Alkalinity	mmol/l	7	2.6	2.9	3.8	2.9	3.4	3.8	2.6	2.6	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.15	0.29	0.43	0.26	0.39	0.35	0.20	0.20	0.39
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.029	0.047	0.080	0.040	0.069	0.030	0.060	0.060	0.036
Nitrate-N (NO ₃ ⁻ -N)	mg/l	12	1.03	1.75	2.27	1.78	2.15	2.06	1.84	1.33	1.78
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	12	0.040	0.072	0.090	0.080	0.080	0.069	0.083	0.061	0.073
Total Phosphorus	mg/l	11	0.09	0.11	0.14	0.11	0.12	0.10	0.11	0.10	0.12
Sodium (Na ⁺)	mg/l	12	14.6	22.6	74.6	17.9	22.7	17.6	38.4	18.5	16.0
Potassium (K ⁺)	mg/l	12	1.2	7.9	15.6	7.6	13.5	11.8	7.9	8.8	3.2
Calcium (Ca ²⁺)	mg/l	12	51.2	57.1	68.8	57.2	59.2	61.9	53.1	55.0	58.5
Magnesium (Mg ²⁺)	mg/l	12	8.7	13.1	19.9	12.4	15.5	10.7	12.4	12.5	16.8
Chloride (Cl ⁻)	mg/l	12	21	28	38	28	35	29	27	32	25
Sulphate (SO ₄ ²⁻)	mg/l	12	31	46	61	48	56	44	51	47	42
Iron (Fe)	mg/l	9	0.04	0.39	1.17	0.20	0.90	0.12	0.69	0.34	0.17
Manganese (Mn)	mg/l	6	0.058	0.079	0.112	0.075	0.103		0.083	0.077	0.076
Zinc (Zn)	µg/l	6	22.0	90.8	310.0	44.5	206.0		27.0	310.0	60.3
Copper (Cu)	µg/l	6	1.0	17.8	25.0	22.5	25.0		18.0	1.0	23.3
Chromium (Cr) - total	µg/l	6	5.0	22.7	87.0	11.0	50.0		48.0	13.0	9.0
Lead (Pb)	µg/l	6	1.0	22.8	48.0	23.5	43.5		10.0	28.0	29.7
Cadmium (Cd)	µg/l	6	0.03	0.70	1.66	0.55	1.38		1.38	0.03	0.46
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	11.0	21.3	31.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	12	2.0	2.8	3.7	2.8	3.5	2.4	2.9	3.1	2.8
COD _{Cr}	mg/l	8	9.7	11.9	15.0	11.8	13.7	10.2	12.5	11.4	14.1
COD _{Mn}	mg/l	11	2.8	4.6	10.3	4.1	6.7	3.6	4.2	6.0	4.6
DOC	mg/l										
Phenol index	mg/l	8	0.003	0.007	0.011	0.007	0.010	0.010	0.005	0.009	0.005
Anionic active surfactants	mg/l	5	0.023	0.053	0.090	0.050	0.082	0.090	0.050	0.028	0.069
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.004	0.006						
pp' DDT	µg/l	2	0.002	0.026	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	5	0.002	0.166	0.540	0.024	0.424		0.271	0.250	0.019
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	5	0.001	0.009	0.024	0.003	0.021		0.002	0.017	0.012
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.000							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	8	1.3	1.9	2.2	2.0	2.2	1.9	2.1	1.7	1.9
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1 m	
Location	Vilkova - Chilia arm/Kilia arm L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	2330.0	4292.1	8500.0	3270.0	6874.5	5843.3	4861.7	2880.0	3583.3
Temperature	°C	12	1.0	14.2	25.0	16.0	22.9	3.0	22.3	21.0	10.5
Suspended Solids	mg/l	12	16	50	121	45	80	80	55	41	25
Dissolved Oxygen	mg/l	12	6.0	8.4	12.1	8.1	6.2	11.2	6.2	6.9	9.2
pH	-	12	7.4	7.7	8.1	7.7	8.0	7.5	7.7	7.8	7.9
Conductivity @ 20°C	µS/cm	12	346	406	483	407	427	413	397	407	407
Alkalinity	mmol/l	12	2.6	2.9	3.4	2.8	3.1	3.0	2.7	2.8	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.14	0.24	0.31	0.23	0.31	0.22	0.27	0.21	0.25
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.030	0.047	0.072	0.044	0.069	0.040	0.064	0.050	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	13	0.96	1.46	2.24	1.39	1.81	1.66	1.35	1.16	1.61
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	13	0.030	0.057	0.090	0.051	0.078	0.064	0.070	0.040	0.055
Total Phosphorus	mg/l	13	0.07	0.09	0.12	0.09	0.11	0.09	0.10	0.08	0.10
Sodium (Na ⁺)	mg/l	13	15.4	20.1	24.9	20.4	24.1	22.0	19.1	23.7	16.7
Potassium (K ⁺)	mg/l	13	2.6	3.3	4.1	3.2	4.1	3.0	3.3	3.5	3.4
Calcium (Ca ²⁺)	mg/l	13	51.3	56.9	67.2	56.0	62.6	61.1	56.6	53.5	56.6
Magnesium (Mg ²⁺)	mg/l	13	9.3	13.9	19.0	13.8	15.9	12.1	12.5	13.5	16.6
Chloride (Cl ⁻)	mg/l	13	26	28	34	28	32	30	29	30	26
Sulphate (SO ₄ ²⁻)	mg/l	13	34	42	61	40	52	40	48	39	42
Iron (Fe)	mg/l	11	0.01	0.44	1.35	0.25	1.00	0.33	0.76	0.36	0.25
Manganese (Mn)	mg/l	12	0.010	0.059	0.132	0.074	0.109	0.042	0.043	0.053	0.098
Zinc (Zn)	µg/l	6	20.0	85.0	300.0	45.0	185.0		30.0	300.0	50.0
Copper (Cu)	µg/l	11	1.0	21.3	79.0	11.0	30.0	10.0	33.3	7.0	25.8
Chromium (Cr) - total	µg/l	13	6.0	15.0	30.0	10.0	28.0	8.7	13.3	26.7	12.3
Lead (Pb)	µg/l	8	10.0	35.4	83.0	20.0	80.9	10.0	15.0	20.0	55.8
Cadmium (Cd)	µg/l	7	0.12	0.68	1.20	0.90	1.08		0.94	1.20	0.42
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	10.0	31.1	61.0	30.0	47.7	30.0	27.3	35.7	
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	13	1.9	2.6	3.3	2.8	3.1	2.5	2.4	3.1	2.4
COD _{Cr}	mg/l	12	9.4	12.6	15.2	12.3	14.9	10.5	12.0	13.2	14.8
COD _{Mn}	mg/l	13	3.4	4.0	4.4	4.1	4.4	3.8	4.2	3.6	4.3
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.005	0.007	0.005	0.006	0.005	0.006	0.004	0.005
Anionic active surfactants	mg/l	12	0.040	0.070	0.100	0.070	0.090	0.067	0.067	0.087	0.060
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.004	0.006						
pp' DDT	µg/l	1		0.012							
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	4	0.007	0.061	0.092						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	4	0.001	0.007	0.011						
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.000							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4									
Macrozoobenthos	sapr.index	4	1.9	2.0	2.3						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1 m	
Location	Vilkova - Chilia arm/Kilia arm M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	2330.0	4292.1	8500.0	3270.0	6874.5	5843.3	4861.7	2880.0	3583.3
Temperature	°C	12	1.0	14.2	25.0	16.0	22.9	3.0	22.3	21.0	10.5
Suspended Solids	mg/l	12	14	47	119	41	79	80	50	37	21
Dissolved Oxygen	mg/l	12	6.0	8.4	11.1	8.3	6.4	10.5	6.4	7.2	9.3
pH	-	12	7.4	7.7	8.1	7.7	8.0	7.5	7.7	7.9	7.9
Conductivity @ 20°C	µS/cm	12	346	406	483	407	423	411	397	409	408
Alkalinity	mmol/l	12	2.6	2.8	3.5	2.9	3.0	3.0	2.7	2.8	2.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.13	0.23	0.38	0.24	0.29	0.23	0.27	0.19	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.024	0.049	0.080	0.045	0.070	0.040	0.070	0.050	0.034
Nitrate-N (NO ₃ ⁻ -N)	mg/l	13	0.91	1.39	2.16	1.32	1.70	1.61	1.20	1.14	1.56
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	13	0.033	0.059	0.090	0.060	0.080	0.073	0.073	0.041	0.053
Total Phosphorus	mg/l	13	0.07	0.10	0.12	0.10	0.11	0.10	0.10	0.08	0.10
Sodium (Na ⁺)	mg/l	13	14.6	19.9	24.2	19.0	23.6	21.9	18.4	23.3	16.9
Potassium (K ⁺)	mg/l	12	2.6	3.2	4.3	3.1	3.6	2.9	3.2	3.3	3.2
Calcium (Ca ²⁺)	mg/l	13	49.7	56.9	66.4	56.1	62.1	60.6	55.9	53.3	57.5
Magnesium (Mg ²⁺)	mg/l	13	8.8	13.7	18.5	14.4	15.6	11.8	12.1	13.6	16.3
Chloride (Cl ⁻)	mg/l	13	25	28	35	28	31	30	29	30	26
Sulphate (SO ₄ ²⁻)	mg/l	13	33	42	62	40	53	40	48	37	42
Iron (Fe)	mg/l	11	0.02	0.34	1.14	0.10	0.93	0.09	0.55	0.33	0.42
Manganese (Mn)	mg/l	12	0.010	0.039	0.130	0.012	0.080	0.034	0.028	0.027	0.067
Zinc (Zn)	µg/l	8	10.0	48.5	210.0	20.0	112.0		13.3	110.0	42.7
Copper (Cu)	µg/l	11	1.0	15.3	28.0	12.0	23.0	10.0	16.7	7.0	21.8
Chromium (Cr) - total	µg/l	13	3.0	13.0	30.0	10.0	28.0	8.7	11.0	23.3	10.0
Lead (Pb)	µg/l	8	10.0	19.1	33.0	20.0	30.9	10.0	15.0	20.0	23.3
Cadmium (Cd)	µg/l	7	0.08	0.77	2.58	0.55	1.51		0.53	2.58	0.45
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	1.0	20.6	42.0	20.5	34.3	30.0	28.0	7.0	
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	13	1.5	2.7	3.8	2.9	3.3	2.3	2.3	3.4	2.7
COD _{Cr}	mg/l	11	10.0	12.1	14.6	11.7	14.4	10.9	11.2	12.6	14.5
COD _{Mn}	mg/l	13	3.3	3.9	4.3	3.9	4.3	3.6	4.0	3.7	4.1
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.005	0.007	0.005	0.006	0.005	0.005	0.004	0.006
Anionic active surfactants	mg/l	12	0.020	0.067	0.090	0.070	0.080	0.067	0.073	0.063	0.063
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.004	0.004						
pp' DDT	µg/l	1		0.011							
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	5	0.002	0.096	0.350	0.035	0.235		0.019	0.062	0.192
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	5	0.000	0.006	0.013	0.007	0.011		0.004	0.008	0.007
Faecal Streptococci	x10 ³ CFU/100 ml	2	0.000	0.001	0.001						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	4									
Macrozoobenthos	sapr.index	4	2.0	2.1	2.1						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO06
Distance from the mouth [km]	18.0	Altitude	1 m	
Location	Vilkova - Chilia arm/Kilia arm R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	12	2330.0	4292.1	8500.0	3270.0	6874.5	5843.3	4861.7	2880.0	3583.3
Temperature	°C	12	1.0	14.2	25.0	16.0	22.9	3.0	22.3	21.0	10.5
Suspended Solids	mg/l	12	18	53	116	48	91	82	59	42	28
Dissolved Oxygen	mg/l	12	6.0	8.3	11.5	8.2	6.1	11.0	6.2	7.0	9.1
pH	-	12	7.4	7.7	8.0	7.7	8.0	7.5	7.7	7.9	7.9
Conductivity @ 20°C	µS/cm	12	346	405	478	405	426	409	398	405	408
Alkalinity	mmol/l	12	2.6	2.9	3.5	2.9	3.1	3.1	2.7	2.9	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	12	0.14	0.21	0.29	0.21	0.27	0.21	0.20	0.21	0.24
Nitrite-N (NO ₂ ⁻ -N)	mg/l	12	0.030	0.048	0.072	0.040	0.069	0.037	0.067	0.050	0.036
Nitrate-N (NO ₃ ⁻ -N)	mg/l	13	0.96	1.43	2.13	1.37	1.78	1.61	1.37	1.16	1.55
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	13	0.030	0.054	0.090	0.050	0.070	0.066	0.060	0.037	0.055
Total Phosphorus	mg/l	13	0.07	0.09	0.12	0.10	0.11	0.10	0.09	0.08	0.10
Sodium (Na ⁺)	mg/l	13	14.6	19.9	24.9	19.7	24.4	22.2	18.6	23.3	16.5
Potassium (K ⁺)	mg/l	13	2.6	3.2	4.1	3.3	4.0	3.0	3.3	3.3	3.4
Calcium (Ca ²⁺)	mg/l	13	51.3	57.1	67.2	56.9	62.2	60.9	55.8	54.4	57.1
Magnesium (Mg ²⁺)	mg/l	12	9.3	13.6	17.5	13.8	16.2	12.1	12.3	13.4	16.6
Chloride (Cl ⁻)	mg/l	13	24	28	34	28	31	30	28	29	26
Sulphate (SO ₄ ²⁻)	mg/l	13	33	42	62	42	54	40	49	39	41
Iron (Fe)	mg/l	11	0.01	0.39	1.80	0.12	1.00	0.10	0.84	0.36	0.22
Manganese (Mn)	mg/l	12	0.010	0.060	0.133	0.050	0.130	0.010	0.068	0.021	0.109
Zinc (Zn)	µg/l	9	10.0	45.4	160.0	19.0	112.0		13.3	60.0	63.0
Copper (Cu)	µg/l	11	1.0	15.5	30.0	11.0	23.0	10.0	14.7	7.0	23.8
Chromium (Cr) - total	µg/l	13	6.0	14.9	30.0	10.0	28.0	8.7	16.7	23.3	12.0
Lead (Pb)	µg/l	8	10.0	20.0	30.0	20.0	30.0	10.0	10.0	20.0	27.5
Cadmium (Cd)	µg/l	7	0.08	0.56	1.18	0.55	0.87		0.50	1.18	0.43
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	1.0	27.0	51.0	30.0	44.7	30.0	35.0	17.0	
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	13	1.3	2.5	3.3	2.8	3.2	2.7	2.2	2.6	2.4
COD _{Cr}	mg/l	12	9.8	12.9	14.9	13.1	14.8	10.7	12.7	13.4	14.7
COD _{Mn}	mg/l	12	3.2	4.1	4.7	4.2	4.4	3.8	4.3	3.7	4.4
DOC	mg/l										
Phenol index	mg/l	12	0.002	0.005	0.007	0.005	0.006	0.005	0.006	0.004	0.006
Anionic active surfactants	mg/l	12	0.040	0.071	0.100	0.070	0.099	0.067	0.067	0.093	0.057
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.002	0.002						
pp' DDT	µg/l	1		0.014							
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	5	0.011	0.070	0.180	0.035	0.152		0.062	0.180	0.023
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	5	0.001	0.013	0.035	0.012	0.028		0.009	0.012	0.018
Faecal Streptococci	x10 ³ CFU/100 ml	5	0.000	0.000	0.001	0.000	0.001		0.001	0.000	0.000
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	3	1.9	2.0	2.1						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sulina - Sulina arm L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	3	1260.0	1518.3	1890.0						
Temperature	°C	3	6.5	11.2	14.0						
Suspended Solids	mg/l	3	14	28	49						
Dissolved Oxygen	mg/l	3	8.5	8.7	9.0						
pH	-	3	7.6	7.8	8.1						
Conductivity @ 20°C	µS/cm	3	385	397	407						
Alkalinity	mmol/l	3	3.0	3.1	3.2						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.11	0.18	0.31						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.032	0.038	0.050						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.46	1.53	1.65						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.080	0.083	0.090						
Total Phosphorus	mg/l	2	0.10	0.10	0.10						
Sodium (Na ⁺)	mg/l	3	14.6	16.2	17.2						
Potassium (K ⁺)	mg/l	3	2.8	3.4	4.3						
Calcium (Ca ²⁺)	mg/l	3	54.5	57.5	62.0						
Magnesium (Mg ²⁺)	mg/l	3	12.6	15.4	19.4						
Chloride (Cl ⁻)	mg/l	3	24	27	29						
Sulphate (SO ₄ ²⁻)	mg/l	3	33	42	59						
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l	3	0.029	0.066	0.103						
Zinc (Zn)	µg/l	3	6.0	36.7	79.0						
Copper (Cu)	µg/l	3	21.0	25.0	31.0						
Chromium (Cr) - total	µg/l	3	6.0	7.7	10.0						
Lead (Pb)	µg/l	3	1.0	22.7	50.0						
Cadmium (Cd)	µg/l	3	0.06	0.14	0.29						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	1.5	2.3	3.0						
COD _{Cr}	mg/l	3	1.5	2.3	3.0						
COD _{Mn}	mg/l	3	4.3	5.4	6.1						
DOC	mg/l										
Phenol index	mg/l	1		0.002							
Anionic active surfactants	mg/l	1		0.310							
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	1		0.092							
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	1		0.018							
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.000							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1		2.2							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sulina - Sulina arm M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	6	864.0	1511.2	2519.0	1332.5	2204.5		1824.0	864.0	1518.3
Temperature	°C	6	6.5	17.1	25.0	17.5	24.0		23.0	23.0	11.2
Suspended Solids	mg/l	6	12	27	47	23	45		30	27	26
Dissolved Oxygen	mg/l	6	6.3	7.6	8.9	7.4	6.5		6.5	6.6	8.6
pH	-	6	7.5	7.6	8.0	7.6	7.9		7.6	7.5	7.8
Conductivity @ 20°C	µS/cm	6	387	401	416	403	414		399	416	397
Alkalinity	mmol/l	6	2.6	2.9	3.2	2.8	3.2		2.7	2.6	3.1
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.11	0.20	0.37	0.18	0.29		0.18	0.21	0.20
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.033	0.048	0.070	0.045	0.065		0.055	0.070	0.036
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.77	1.68	3.59	1.52	2.62		2.33	0.77	1.56
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.040	0.065	0.082	0.070	0.081		0.060	0.040	0.077
Total Phosphorus	mg/l	6	0.08	0.12	0.19	0.10	0.18		0.18	0.08	0.10
Sodium (Na ⁺)	mg/l	6	15.2	18.6	21.6	18.9	20.9		19.3	21.6	17.2
Potassium (K ⁺)	mg/l	6	2.7	3.4	4.3	3.4	4.1		3.5	3.6	3.3
Calcium (Ca ²⁺)	mg/l	6	54.0	56.1	62.0	54.8	59.5		54.0	55.0	57.8
Magnesium (Mg ²⁺)	mg/l	6	12.0	14.3	18.5	14.1	16.5		13.2	13.8	15.2
Chloride (Cl ⁻)	mg/l	6	25	30	38	29	35		30	38	28
Sulphate (SO ₄ ²⁻)	mg/l	6	33	46	61	46	59		56	41	41
Iron (Fe)	mg/l	3	0.44	0.76	1.37						
Manganese (Mn)	mg/l	6	0.039	0.065	0.111	0.056	0.097		0.083	0.039	0.062
Zinc (Zn)	µg/l	6	17.0	65.5	251.0	26.0	150.5		20.5	251.0	33.7
Copper (Cu)	µg/l	6	11.0	25.0	34.0	26.5	31.5		20.0	34.0	25.3
Chromium (Cr) - total	µg/l	6	7.0	32.3	147.0	9.5	79.5		78.5	9.0	9.3
Lead (Pb)	µg/l	6	1.0	18.8	52.0	15.0	35.0		8.0	18.0	26.3
Cadmium (Cd)	µg/l	6	0.05	0.40	1.12	0.27	0.87		0.48	1.12	0.10
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	3.0	10.0	18.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	1.4	2.7	3.3	2.9	3.3		2.7	3.0	2.6
COD _{Cr}	mg/l	1		13.0							
COD _{Mn}	mg/l	6	3.3	4.6	5.9	4.3	5.8		4.3	3.3	5.3
DOC	mg/l										
Phenol index	mg/l	4	0.002	0.005	0.007						
Anionic active surfactants	mg/l	1		0.303							
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.004	0.027	0.050						
pp'DDT	µg/l	1		0.050							
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	2	0.046	0.078	0.110						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	2	0.001	0.004	0.007						
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.001							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	5									
Macrozoobenthos	sapr.index	5	2.0	2.1	2.3	2.1	2.2		2.1	2.0	2.2
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO07
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sulina - Sulina arm R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	3	1260.0	1518.3	1890.0						
Temperature	°C	3	6.5	11.2	14.0						
Suspended Solids	mg/l	3	17	30	50						
Dissolved Oxygen	mg/l	3	7.9	8.3	8.6						
pH	-	3	7.6	7.8	8.0						
Conductivity @ 20°C	µS/cm	3	385	396	402						
Alkalinity	mmol/l	3	2.9	3.1	3.3						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.10	0.19	0.35						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.032	0.035	0.040						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.48	1.58	1.63						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.080	0.081	0.082						
Total Phosphorus	mg/l	3	0.10	0.10	0.11						
Sodium (Na ⁺)	mg/l	3	15.2	17.9	21.4						
Potassium (K ⁺)	mg/l	3	2.5	3.2	4.3						
Calcium (Ca ²⁺)	mg/l	3	55.3	57.8	62.0						
Magnesium (Mg ²⁺)	mg/l	3	13.2	15.1	18.5						
Chloride (Cl ⁻)	mg/l	3	25	28	29						
Sulphate (SO ₄ ²⁻)	mg/l	3	32	41	58						
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l	3	0.058	0.064	0.074						
Zinc (Zn)	µg/l	3	33.0	58.0	94.0						
Copper (Cu)	µg/l	3	20.0	23.7	28.0						
Chromium (Cr) - total	µg/l	3	5.0	9.0	16.0						
Lead (Pb)	µg/l	3	8.0	22.3	45.0						
Cadmium (Cd)	µg/l	3	0.02	0.07	0.16						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	1.2	1.9	3.1						
COD _{Cr}	mg/l	1		14.0							
COD _{Mn}	mg/l	3	4.2	5.2	5.9						
DOC	mg/l										
Phenol index	mg/l	1		0.002							
Anionic active surfactants	mg/l	1		0.303							
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	2	0.035	0.818	1.600						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	2	0.001	0.024	0.046						
Faecal Streptococci	x10 ³ CFU/100 ml	2	0.000	0.001	0.001						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1		2.2							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sf.Gheorge - Sf.Gheorge arm L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	3	1105.0	1658.3	2260.0						
Temperature	°C	3	6.4	11.1	14.0						
Suspended Solids	mg/l	3	13	44	97						
Dissolved Oxygen	mg/l	3	8.1	8.6	9.2						
pH	-	3	7.7	7.8	8.0						
Conductivity @ 20°C	µS/cm	3	389	395	402						
Alkalinity	mmol/l	3	2.7	2.9	3.1						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.14	0.23	0.39						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.027	0.035	0.040						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.42	1.58	1.73						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.010	0.057	0.080						
Total Phosphorus	mg/l	3	0.10	0.10	0.11						
Sodium (Na ⁺)	mg/l	3	14.6	16.9	19.5						
Potassium (K ⁺)	mg/l	3	2.4	3.0	4.0						
Calcium (Ca ²⁺)	mg/l	3	53.7	56.0	59.0						
Magnesium (Mg ²⁺)	mg/l	3	15.0	16.5	18.0						
Chloride (Cl ⁻)	mg/l	3	23	26	29						
Sulphate (SO ₄ ²⁻)	mg/l	3	33	40	54						
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l	3	0.009	0.076	0.163						
Zinc (Zn)	µg/l	3	17.0	36.7	76.0						
Copper (Cu)	µg/l	3	19.0	27.3	34.0						
Chromium (Cr) - total	µg/l	3	9.0	19.0	38.0						
Lead (Pb)	µg/l	3	4.0	24.3	57.0						
Cadmium (Cd)	µg/l	3	0.01	1.22	3.44						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	1.4	2.1	3.3						
COD _{Cr}	mg/l	1		14.0							
COD _{Mn}	mg/l	3	3.7	4.9	5.6						
DOC	mg/l										
Phenol index	mg/l	2	0.002	0.004	0.007						
Anionic active surfactants	mg/l	2	0.034	0.069	0.104						
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	1		0.001							
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	1		0.001							
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa	2									
Macrozoobenthos	sapr.index	2	2.0	2.1	2.3						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sf.Gheorge - Sf.Gheorge arm M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	6	951.0	1512.0	2260.0	1357.5	2190.0		1535.5	1026.0	1658.3
Temperature	°C	6	6.4	17.1	25.0	17.5	24.0		23.0	23.0	11.1
Suspended Solids	mg/l	6	15	30	50	25	49		33	29	28
Dissolved Oxygen	mg/l	6	6.5	7.7	8.9	7.7	6.7		6.7	6.8	8.7
pH	-	6	7.6	7.7	8.1	7.6	8.0		7.6	7.6	7.8
Conductivity @ 20°C	µS/cm	6	383	398	412	397	411		397	412	394
Alkalinity	mmol/l	6	2.6	2.8	3.0	2.7	3.0		2.7	2.6	2.9
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.12	0.19	0.35	0.17	0.27		0.15	0.18	0.22
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.030	0.048	0.070	0.050	0.065		0.060	0.070	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.82	1.69	3.48	1.53	2.62		2.25	0.82	1.60
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.040	0.072	0.100	0.075	0.095		0.060	0.040	0.090
Total Phosphorus	mg/l	6	0.08	0.13	0.19	0.12	0.18		0.18	0.08	0.11
Sodium (Na ⁺)	mg/l	6	13.5	18.4	22.0	18.5	21.8		18.5	21.5	17.3
Potassium (K ⁺)	mg/l	6	2.6	3.8	5.1	3.9	4.6		4.3	4.0	3.5
Calcium (Ca ²⁺)	mg/l	6	53.0	72.5	159.0	54.9	109.0		53.5	159.0	56.3
Magnesium (Mg ²⁺)	mg/l	6	12.6	16.9	28.4	15.3	22.2		14.1	13.8	19.8
Chloride (Cl ⁻)	mg/l	6	25	30	40	28	37		31	40	27
Sulphate (SO ₄ ²⁻)	mg/l	6	35	48	64	47	62		62	41	41
Iron (Fe)	mg/l	3	0.49	0.77	1.23						
Manganese (Mn)	mg/l	5	0.053	0.073	0.116	0.056	0.105		0.071	0.054	0.086
Zinc (Zn)	µg/l	5	13.0	32.6	78.0	25.9	59.2		22.0	25.9	46.5
Copper (Cu)	µg/l	5	12.0	71.8	270.0	23.0	176.0		23.5	270.0	21.0
Chromium (Cr) - total	µg/l	5	9.0	39.4	153.0	11.0	97.0		83.0	11.0	10.0
Lead (Pb)	µg/l	5	11.0	16.2	26.0	13.0	23.6		15.5	11.0	19.5
Cadmium (Cd)	µg/l	5	0.00	0.40	1.00	0.00	1.00		0.50	0.00	0.50
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	2	1.0	4.5	8.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	1.8	2.4	3.0	2.5	3.0		2.5	2.9	2.2
COD _{Cr}	mg/l	3	10.0	14.3	18.0						
COD _{Mn}	mg/l	5	3.5	4.4	5.7	4.3	5.1		4.3	3.5	4.9
DOC	mg/l										
Phenol index	mg/l	6	0.002	0.004	0.005	0.004	0.005		0.004	0.005	0.004
Anionic active surfactants	mg/l	2	0.030	0.065	0.100						
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	3	0.002	0.006	0.008						
pp' DDT	µg/l	1		0.004							
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	4	2.1	2.1	2.1						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	817000 km ²	RO08
Distance from the mouth [km]	0.0	Altitude	1 m	
Location	Sf.Gheorge - Sf.Gheorge arm R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	3	1105.0	1658.3	2260.0						
Temperature	°C	3	6.4	11.1	14.0						
Suspended Solids	mg/l	3	12	41	87						
Dissolved Oxygen	mg/l	3	8.6	8.9	9.4						
pH	-	3	7.6	7.8	8.0						
Conductivity @ 20°C	µS/cm	3	387	394	397						
Alkalinity	mmol/l	3	2.7	2.9	3.1						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.14	0.22	0.37						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.026	0.035	0.040						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.39	1.61	1.73						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.010	0.057	0.080						
Total Phosphorus	mg/l	3	0.10	0.10	0.10						
Sodium (Na ⁺)	mg/l	3	13.5	16.3	19.0						
Potassium (K ⁺)	mg/l	3	2.4	3.1	4.1						
Calcium (Ca ²⁺)	mg/l	3	53.7	56.6	60.0						
Magnesium (Mg ²⁺)	mg/l	3	14.4	16.2	18.0						
Chloride (Cl ⁻)	mg/l	3	25	26	28						
Sulphate (SO ₄ ²⁻)	mg/l	3	33	40	53						
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l	3	0.086	0.106	0.135						
Zinc (Zn)	µg/l	2	15.0	26.5	38.0						
Copper (Cu)	µg/l	3	23.0	31.3	38.0						
Chromium (Cr) - total	µg/l	3	8.0	20.0	42.0						
Lead (Pb)	µg/l	3	3.0	25.3	40.0						
Cadmium (Cd)	µg/l	3	0.04	0.24	0.63						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	1.4	2.2	3.2						
COD _{Cr}	mg/l	1		12.5							
COD _{Mn}	mg/l	3	3.8	5.0	5.9						
DOC	mg/l										
Phenol index	mg/l	2	0.002	0.004	0.007						
Anionic active surfactants	mg/l	2	0.039	0.074	0.108						
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	1		0.017							
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	1		0.005							
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.000							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1		1.9							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Arges	Catchment	12550 km ²	RO09
Distance from the mouth [km]	0.0	Altitude	14 m	
Location	Conf. Danube M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	6	6.1	16.3	61.8	7.6	34.9		34.9	6.1	7.4
Temperature	°C	6	4.4	16.0	25.0	18.0	25.0		23.0	25.0	8.4
Suspended Solids	mg/l	6	37	97	183	90	148		127	37	97
Dissolved Oxygen	mg/l	6	2.4	6.0	9.8	6.2	2.5		3.0	2.6	9.1
pH	-	6	7.1	7.6	7.9	7.6	7.9		7.3	7.3	7.8
Conductivity @ 20°C	µS/cm	6	338	528	596	567	588		578	558	485
Alkalinity	mmol/l	6	3.2	3.9	5.2	3.7	4.7		4.3	3.2	3.8
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.34	2.96	14.20	0.78	7.68		7.58	1.15	0.49
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.020	0.028	0.050	0.025	0.040		0.020	0.030	0.033
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.24	1.61	2.86	1.70	2.76		0.59	0.52	2.66
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.100	0.328	0.700	0.200	0.675		0.475	0.650	0.123
Total Phosphorus	mg/l	6	0.18	0.49	0.96	0.38	0.87		0.72	0.77	0.24
Sodium (Na ⁺)	mg/l	6	14.8	41.8	50.0	46.6	50.0		49.5	49.9	34.0
Potassium (K ⁺)	mg/l	6	5.4	7.3	9.4	7.1	8.9		7.4	8.4	6.8
Calcium (Ca ²⁺)	mg/l	6	53.0	65.4	78.0	65.5	73.3		63.0	53.0	71.2
Magnesium (Mg ²⁺)	mg/l	6	12.6	19.4	27.0	18.1	26.5		24.0	12.6	18.7
Chloride (Cl ⁻)	mg/l	6	57	72	83	75	80		79	77	66
Sulphate (SO ₄ ²⁻)	mg/l	6	54	66	76	68	73		65	54	71
Iron (Fe)	mg/l	6	0.01	3.02	14.31	0.75	8.14		7.16	1.97	0.61
Manganese (Mn)	mg/l	5	0.004	0.243	0.643	0.248	0.506		0.324	0.248	0.160
Zinc (Zn)	µg/l	5	16.0	213.0	356.0	312.0	348.4		190.5	356.0	164.0
Copper (Cu)	µg/l	5	12.0	41.6	108.0	29.0	78.8		18.0	108.0	32.0
Chromium (Cr) - total	µg/l	5	4.0	19.0	39.0	13.0	34.2		8.0	13.0	33.0
Lead (Pb)	µg/l	5	34.0	61.6	92.0	52.0	91.2		62.0	52.0	66.0
Cadmium (Cd)	µg/l	5	0.19	10.50	45.60	2.50	28.46		24.18	0.19	1.99
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	25.0	43.7	63.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	4.8	28.0	62.5	18.8	60.5		45.4	62.5	4.9
COD _{Cr}	mg/l	3	14.6	15.7	17.6						
COD _{Mn}	mg/l	6	8.0	9.9	12.0	9.9	11.6		11.6	11.1	8.3
DOC	mg/l										
Phenol index	mg/l	6	0.001	0.007	0.015	0.006	0.014		0.011	0.015	0.001
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.026	0.050						
pp'DDT	µg/l	2	0.006	0.028	0.050						
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	2	2.5	2.7	2.8						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Siret	Catchment	42890 km ²	RO10
Distance from the mouth [km]	0.0	Altitude	4 m	
Location	Conf. Danube Sendreni M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	6	196.0	446.5	1150.0	333.5	787.0		673.0	384.0	316.3
Temperature	°C	5	8.8	16.2	22.0	20.5	21.6		21.3	21.0	8.8
Suspended Solids	mg/l	6	22	148	302	140	262		235	62	118
Dissolved Oxygen	mg/l	5	5.7	7.1	9.1	6.0	5.7		5.7	6.0	9.0
pH	-	6	7.2	7.6	8.2	7.6	8.0		7.5	7.6	7.7
Conductivity @ 20°C	µS/cm	6	511	620	760	599	750		599	511	671
Alkalinity	mmol/l	6	3.1	3.4	3.8	3.3	3.7		3.5	3.2	3.3
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.35	1.12	1.52	1.17	1.50		1.27	1.14	1.01
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.030	0.293	1.200	0.125	0.720		0.700	0.240	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	1.34	2.18	3.41	2.04	2.91		2.38	1.87	2.16
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.020	0.085	0.190	0.070	0.150		0.060	0.020	0.123
Total Phosphorus	mg/l	6	0.05	0.29	0.60	0.21	0.57		0.57	0.05	0.17
Sodium (Na ⁺)	mg/l	6	36.7	53.9	81.7	50.0	70.1		64.2	36.7	52.8
Potassium (K ⁺)	mg/l	6	3.4	6.0	10.8	5.5	8.3		4.4	5.5	7.3
Calcium (Ca ²⁺)	mg/l	6	62.0	67.7	73.9	67.0	73.0		70.5	62.0	67.6
Magnesium (Mg ²⁺)	mg/l	6	19.8	24.1	27.6	24.7	27.3		26.4	27.6	21.5
Chloride (Cl ⁻)	mg/l	6	54	89	122	94	119		119	104	65
Sulphate (SO ₄ ²⁻)	mg/l	6	52	100	176	96	151		96	52	118
Iron (Fe)	mg/l	3	6.75	14.73	28.25	9.20	24.44		18.73	6.75	
Manganese (Mn)	mg/l	6	0.204	0.694	1.720	0.557	1.259		1.259	0.739	0.302
Zinc (Zn)	µg/l	6	29.0	115.2	285.0	96.0	203.0		112.5	285.0	60.3
Copper (Cu)	µg/l	6	1.0	18.3	34.0	16.0	33.5		11.0	1.0	29.0
Chromium (Cr) - total	µg/l	6	7.0	21.3	42.0	16.0	39.5		31.5	10.0	18.3
Lead (Pb)	µg/l	6	1.0	23.0	48.0	19.0	44.5		25.5	15.0	24.0
Cadmium (Cd)	µg/l	6	0.24	1.26	3.59	0.76	2.74		2.74	0.52	0.51
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	10.0	56.0	80.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	4.5	5.6	6.5	5.8	6.3		5.2	5.9	5.7
COD _{Cr}	mg/l	1		62.0							
COD _{Mn}	mg/l	6	4.8	7.6	15.1	6.7	11.2		7.2	6.5	8.3
DOC	mg/l										
Phenol index	mg/l	4	0.002	0.006	0.007						
Anionic active surfactants	mg/l	1		0.061							
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l	2	0.002	0.002	0.002						
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	2	0.081	0.216	0.350						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	2	0.054	0.059	0.064						
Faecal Streptococci	x10 ³ CFU/100 ml	2	0.001	0.001	0.001						
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	1		1.8							
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Prut	Catchment	27480 km ²	RO11
Distance from the mouth [km]	0.0	Altitude	5 m	
Location	Conf.Danube Giurgiulesti M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s	3	1.7	89.9	165.0						
Temperature	°C	2	8.4	8.7	9.0						
Suspended Solids	mg/l	3	20	58	88						
Dissolved Oxygen	mg/l	2	9.5	10.8	12.1						
pH	-	3	7.5	7.9	8.2						
Conductivity @ 20°C	µS/cm	3	641	712	786						
Alkalinity	mmol/l	3	3.4	3.6	3.9						
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.47	0.51	0.58						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.030	0.034	0.040						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.40	1.86	2.16						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.080	0.093	0.100						
Total Phosphorus	mg/l	3	0.10	0.13	0.17						
Sodium (Na ⁺)	mg/l	3	22.0	24.9	28.6						
Potassium (K ⁺)	mg/l	3	2.4	3.9	4.7						
Calcium (Ca ²⁺)	mg/l	3	65.0	69.3	77.8						
Magnesium (Mg ²⁺)	mg/l	3	21.6	24.0	28.2						
Chloride (Cl ⁻)	mg/l	3	43	61	70						
Sulphate (SO ₄ ²⁻)	mg/l	3	69	109	137						
Iron (Fe)	mg/l										
Manganese (Mn)	mg/l	3	0.098	0.128	0.158						
Zinc (Zn)	µg/l	3	8.0	28.0	43.0						
Copper (Cu)	µg/l	3	19.0	24.3	33.0						
Chromium (Cr) - total	µg/l	3	5.0	16.7	36.0						
Lead (Pb)	µg/l	3	1.0	32.7	49.0						
Cadmium (Cd)	µg/l	3	0.23	0.29	0.32						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	3.8	4.4	5.0						
COD _{Cr}	mg/l	1		23.0							
COD _{Mn}	mg/l	3	5.1	6.5	9.0						
DOC	mg/l										
Phenol index	mg/l	1		0.016							
Anionic active surfactants	mg/l	1		0.053							
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml	2	0.054	0.297	0.540						
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml	2	0.007	0.010	0.013						
Faecal Streptococci	x10 ³ CFU/100 ml	1		0.001							
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index	2	1.8	1.9	2.0						
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	27 m	
Location	Novo Selo harbour/ Pristol L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	9	2.0	15.6	24.0	18.9	23.7	2.3	17.2	23.0	14.9
Suspended Solids	mg/l										
Dissolved Oxygen	mg/l	9	5.6	7.6	13.4	6.7	6.0	11.5	6.4	6.4	7.1
pH	-	9	7.8	8.0	8.2	8.0	8.2	8.1	8.0	8.0	7.8
Conductivity @ 20°C	µS/cm	9	352	379	475	364	420	415	379	360	364
Alkalinity	mmol/l	9	2.5	3.0	3.2	3.0	3.2	3.0	2.8	3.1	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	8	0.03	0.15	0.82	0.03	0.38	0.82	0.08	0.03	0.03
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	0.010	0.031	0.050	0.030	0.042	0.015	0.037	0.033	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	9	1.10	1.69	2.20	1.79	2.12	1.88	2.03	1.27	1.60
Organic Nitrogen	mg/l	2	0.90	1.13	1.35						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.030	0.073	0.130	0.070	0.098	0.035	0.103	0.070	0.070
Total Phosphorus	mg/l	7	0.09	0.13	0.17	0.12	0.16	0.10	0.12	0.16	0.11
Sodium (Na ⁺)	mg/l	2	10.4	13.5	16.5						
Potassium (K ⁺)	mg/l	2	2.9	2.9	2.9						
Calcium (Ca ²⁺)	mg/l	9	39.2	47.3	62.1	41.0	57.3	59.1	45.2	39.6	53.3
Magnesium (Mg ²⁺)	mg/l	9	10.8	12.6	15.8	11.2	15.6	13.4	12.7	11.5	13.9
Chloride (Cl ⁻)	mg/l	9	13	18	21	19	21	16	15	20	21
Sulphate (SO ₄ ²⁻)	mg/l	9	23	34	46	34	43	38	40	28	24
Iron (Fe)	mg/l	9	0.05	0.42	1.41	0.31	0.79	0.58	0.52	0.30	0.15
Manganese (Mn)	mg/l	8	0.025	0.083	0.154	0.065	0.152	0.065	0.072	0.077	0.154
Zinc (Zn)	µg/l	8	0.5	25.1	53.0	25.5	39.7	20.0	31.0	15.2	53.0
Copper (Cu)	µg/l	8	0.5	9.8	46.0	0.5	28.5	0.5	4.8	22.5	0.5
Chromium (Cr) - total	µg/l	8	5.0	8.1	30.0	5.0	12.5	17.5	5.0	5.0	5.0
Lead (Pb)	µg/l	8	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	2	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	0.5	1.4	8.0	0.5	2.8	0.5	4.3	0.5	0.5
Arsenic (As)	µg/l	7	1.0	1.7	4.0	1.0	3.4	3.5	1.0	1.0	1.0
Aluminium (Al)	µg/l										
BOD ₅	mg/l	9	1.1	2.0	3.4	1.8	3.1	3.2	1.8	1.4	1.8
COD _{Cr}	mg/l	9	9.3	15.3	25.4	12.5	23.9	16.5	18.9	11.0	14.8
COD _{Mn}	mg/l	9	2.3	3.2	4.9	2.8	4.6	4.7	3.3	2.5	2.3
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.001						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	2	1.2	1.8	2.4						

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	27 m	
Location	Novo Selo harbour/ Pristol M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	9	2.0	15.6	24.0	18.9	23.7	2.3	17.2	23.0	14.9
Suspended Solids	mg/l										
Dissolved Oxygen	mg/l	9	5.7	7.6	13.0	6.5	5.9	11.3	6.6	6.4	7.0
pH	-	9	7.8	8.0	8.2	8.0	8.2	8.1	8.0	8.0	7.9
Conductivity @ 20°C	µS/cm	9	351	377	476	362	419	415	379	359	353
Alkalinity	mmol/l	9	2.6	2.9	3.2	3.0	3.2	3.0	2.8	3.1	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	8	0.03	0.16	0.86	0.04	0.37	0.86	0.09	0.03	0.03
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	0.010	0.028	0.040	0.030	0.040	0.015	0.030	0.030	0.040
Nitrate-N (NO ₃ ⁻ -N)	mg/l	9	1.10	1.75	2.19	1.89	2.04	1.87	2.03	1.37	1.80
Organic Nitrogen	mg/l	2	0.90	1.10	1.29						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.040	0.073	0.110	0.060	0.110	0.045	0.103	0.067	0.060
Total Phosphorus	mg/l	7	0.09	0.13	0.17	0.12	0.16	0.09	0.12	0.16	0.11
Sodium (Na ⁺)	mg/l	2	10.3	13.7	17.1						
Potassium (K ⁺)	mg/l	2	2.7	2.8	2.9						
Calcium (Ca ²⁺)	mg/l	9	38.9	47.6	59.3	42.7	57.1	57.5	46.3	39.5	56.6
Magnesium (Mg ²⁺)	mg/l	9	10.4	12.4	17.5	11.4	14.8	14.0	12.0	11.4	13.0
Chloride (Cl ⁻)	mg/l	9	13	17	21	19	20	16	15	20	20
Sulphate (SO ₄ ²⁻)	mg/l	9	24	34	44	37	43	43	39	27	24
Iron (Fe)	mg/l	9	0.10	0.32	1.23	0.20	0.61	0.40	0.48	0.18	0.10
Manganese (Mn)	mg/l	8	0.026	0.070	0.157	0.050	0.149	0.050	0.038	0.078	0.146
Zinc (Zn)	µg/l	8	0.5	17.6	35.0	20.0	28.0	10.3	20.0	15.2	35.0
Copper (Cu)	µg/l	8	0.5	8.4	41.0	0.5	24.9	0.5	3.3	19.8	0.5
Chromium (Cr) - total	µg/l	8	5.0	6.9	20.0	5.0	9.5	12.5	5.0	5.0	5.0
Lead (Pb)	µg/l	8	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	2	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	0.5	1.3	7.0	0.5	2.5	0.5	3.8	0.5	0.5
Arsenic (As)	µg/l	7	1.0	1.4	3.0	1.0	2.4	2.5	1.0	1.0	1.0
Aluminium (Al)	µg/l										
BOD ₅	mg/l	9	1.2	1.9	3.7	1.7	2.7	3.0	2.0	1.3	1.3
COD _{Cr}	mg/l	9	8.7	15.1	25.4	15.3	20.8	12.5	18.9	12.8	15.6
COD _{Mn}	mg/l	9	2.0	3.2	4.9	2.5	4.5	4.6	3.5	2.4	2.0
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.002						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	2	1.8	2.1	2.4						

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	580100 km ²	BG01
Distance from the mouth [km]	834.0	Altitude	27 m	
Location	Novo Selo harbour/ Pristol R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	9	2.0	15.6	24.0	18.9	23.7	2.3	17.2	23.0	14.9
Suspended Solids	mg/l										
Dissolved Oxygen	mg/l	9	6.0	7.7	13.0	6.5	6.2	11.2	6.8	6.4	7.2
pH	-	9	7.8	8.0	8.3	8.0	8.2	8.2	8.0	8.0	7.9
Conductivity @ 20°C	µS/cm	9	350	385	483	369	421	425	385	366	361
Alkalinity	mmol/l	9	2.6	3.0	3.4	3.1	3.2	3.1	2.8	3.2	3.0
Ammonium-N (NH ₄ ⁺ -N)	mg/l	8	0.03	0.16	0.93	0.03	0.39	0.93	0.08	0.03	0.03
Nitrite-N (NO ₂ ⁻ -N)	mg/l	9	0.010	0.027	0.040	0.030	0.032	0.015	0.033	0.027	0.030
Nitrate-N (NO ₃ ⁻ -N)	mg/l	9	1.10	1.73	2.20	1.90	2.19	1.97	2.10	1.27	1.50
Organic Nitrogen	mg/l	2	1.01	1.01	1.01						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	9	0.040	0.078	0.110	0.070	0.110	0.045	0.097	0.080	0.080
Total Phosphorus	mg/l	7	0.11	0.14	0.17	0.14	0.17	0.11	0.12	0.17	0.14
Sodium (Na ⁺)	mg/l	2	10.2	13.4	16.5						
Potassium (K ⁺)	mg/l	2	2.9	2.9	2.9						
Calcium (Ca ²⁺)	mg/l	9	39.6	47.7	60.1	41.0	58.8	59.3	45.1	40.1	54.8
Magnesium (Mg ²⁺)	mg/l	9	10.0	12.7	18.5	11.0	16.3	14.5	11.7	11.3	15.8
Chloride (Cl ⁻)	mg/l	9	13	17	21	18	20	16	15	20	20
Sulphate (SO ₄ ²⁻)	mg/l	9	22	36	54	37	47	42	45	27	24
Iron (Fe)	mg/l	9	0.10	0.35	1.23	0.24	0.65	0.48	0.48	0.22	0.12
Manganese (Mn)	mg/l	8	0.032	0.084	0.159	0.075	0.153	0.090	0.058	0.072	0.159
Zinc (Zn)	µg/l	8	0.5	17.1	26.0	21.5	24.6	15.0	18.0	15.5	24.0
Copper (Cu)	µg/l	8	0.5	8.1	30.0	0.5	22.3	0.5	6.8	16.5	0.5
Chromium (Cr) - total	µg/l	8	5.0	6.9	20.0	5.0	9.5	12.5	5.0	5.0	5.0
Lead (Pb)	µg/l	8	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	2	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	8	0.5	1.2	6.0	0.5	2.2	0.5	3.3	0.5	0.5
Arsenic (As)	µg/l	7	1.0	2.0	4.0	1.0	4.0	4.0	1.0	1.3	1.0
Aluminium (Al)	µg/l										
BOD ₅	mg/l	9	1.0	2.0	3.8	2.1	2.9	3.3	2.0	1.1	2.4
COD _{Cr}	mg/l	9	9.0	13.2	21.3	10.9	20.5	15.2	14.6	11.3	10.4
COD _{Mn}	mg/l	9	2.3	3.3	4.7	2.9	4.5	4.5	3.6	2.5	2.9
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.001						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp'DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	2	3.5	4.7	5.9						

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	608 820 km ²	BG02
Distance from the mouth [km]	641.0	Altitude	20 m	
Location	us. Iskar-Bajkal M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	3	3.4	10.7	21.0						
Suspended Solids	mg/l	3	10	15	19						
Dissolved Oxygen	mg/l	3	4.8	10.6	13.7						
pH	-	3	7.7	7.9	8.1						
Conductivity @ 20°C	µS/cm	3	345	452	506						
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l										
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.013	0.017	0.020						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.62	2.03	2.32						
Organic Nitrogen	mg/l	3	0.02	0.11	0.28						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.340	0.440	0.530						
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	3	54.6	58.5	61.6						
Magnesium (Mg ²⁺)	mg/l	3	11.9	14.0	17.7						
Chloride (Cl ⁻)	mg/l	3	27	30	33						
Sulphate (SO ₄ ²⁻)	mg/l	3	26	64	103						
Iron (Fe)	mg/l	3	0.10	0.14	0.18						
Manganese (Mn)	mg/l	3	0.005	0.005	0.005						
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										
BOD ₅	mg/l	3	2.2	2.3	2.4						
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	3	4.3	5.3	5.9						
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	1		0.020							
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	650 340 km ²	BG03
Distance from the mouth [km]	554.0	Altitude	16 m	
Location	Downstream Svishtov M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	6	1.0	8.2	14.0	9.5	14.0	1.0	9.7		9.5
Suspended Solids	mg/l	6	32	67	142	42	128	114	39		87
Dissolved Oxygen	mg/l	6	8.9	10.2	11.2	10.1	9.3	11.2	10.2		9.6
pH	-	6	7.1	7.5	8.2	7.4	8.0	7.2	7.9		7.1
Conductivity @ 20°C	µS/cm	6	384	430	465	432	460	384	452		420
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l										
Nitrite-N (NO ₂ ⁻ -N)	mg/l	6	0.003	0.011	0.029	0.005	0.025	0.004	0.013		0.012
Nitrate-N (NO ₃ ⁻ -N)	mg/l	6	0.03	0.37	0.63	0.38	0.63	0.29	0.57		0.12
Organic Nitrogen	mg/l	6	0.01	0.09	0.23	0.07	0.19	0.14	0.11		0.04
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	6	0.103	0.552	1.260	0.415	1.075	1.260	0.550		0.202
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	2	10.4	56.2	102.0						
Magnesium (Mg ²⁺)	mg/l	1		15.3							
Chloride (Cl ⁻)	mg/l	6	14	51	106	46	85	28	66		39
Sulphate (SO ₄ ²⁻)	mg/l	5	1	16	47	10	34	1	11		47
Iron (Fe)	mg/l	6	0.04	0.31	1.08	0.23	0.67	1.08	0.16		0.16
Manganese (Mn)	mg/l	4	0.005	0.019	0.040						
Zinc (Zn)	µg/l	4	0.5	42.6	70.0						
Copper (Cu)	µg/l	4	0.5	7.6	10.0						
Chromium (Cr) - total	µg/l										
Lead (Pb)	µg/l	4	0.5	15.1	30.0						
Cadmium (Cd)	µg/l	4	0.50	0.75	1.00						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	3	0.5	3.5	5.0						
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	6	3.6	4.8	6.7	4.8	5.9	4.8	5.0		4.6
COD _{Cr}	mg/l	2	7.0	11.0	15.0						
COD _{Mn}	mg/l	6	3.7	6.2	9.4	5.9	8.7	6.3	7.0		5.0
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l	6	1.00	4.15	9.10	3.84	7.35	1.50	3.96		5.750
AOX	µg/l										
Lindane	µg/l										
pp' DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	669 900 km ²	BG04
Distance from the mouth [km]	496.0	Altitude	12 m	
Location	us. Russe M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	3	3.5	10.3	21.6						
Suspended Solids	mg/l	3	26	30	36						
Dissolved Oxygen	mg/l	3	7.5	9.5	11.7						
pH	-	3	7.2	7.4	7.5						
Conductivity @ 20°C	µS/cm	3	402	438	490						
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l										
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.010	0.027	0.040						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.50	2.00	2.40						
Organic Nitrogen	mg/l	3	0.05	0.06	0.07						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.310	0.397	0.450						
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	3	24	26	28						
Sulphate (SO ₄ ²⁻)	mg/l	3	35	36	39						
Iron (Fe)	mg/l	1		0.30							
Manganese (Mn)	mg/l	1		0.048							
Zinc (Zn)	µg/l	1		63.0							
Copper (Cu)	µg/l	1		12.0							
Chromium (Cr) - total	µg/l										
Lead (Pb)	µg/l										
Cadmium (Cd)	µg/l										
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	1		0.5							
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	2.6	3.2	3.5						
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	3	4.0	4.3	4.8						
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	669 900 km ²	BG04
Distance from the mouth [km]	496.0	Altitude	12 m	
Location	us. Russe R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	3	3.5	10.3	21.6						
Suspended Solids	mg/l	3	26	30	36						
Dissolved Oxygen	mg/l	2	7.5	8.5	9.4						
pH	-	3	7.2	7.4	7.5						
Conductivity @ 20°C	µS/cm	3	402	438	490						
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	3	0.31	0.40	0.45						
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.010	0.027	0.040						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	1.50	2.00	2.40						
Organic Nitrogen	mg/l										
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.050	0.060	0.070						
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	3	24	26	28						
Sulphate (SO ₄ ²⁻)	mg/l	3	35	36	39						
Iron (Fe)	mg/l	1		0.30							
Manganese (Mn)	mg/l	1		0.048							
Zinc (Zn)	µg/l	1		63.0							
Copper (Cu)	µg/l	1		12.0							
Chromium (Cr) - total	µg/l	1		5.0							
Lead (Pb)	µg/l										
Cadmium (Cd)	µg/l										
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	1		0.5							
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l										
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	3	4.0	4.3	4.8						
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chicui L			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	7	2.4	15.2	23.2	20.9	23.0	2.5	18.5	23.1	
Suspended Solids	mg/l										
Dissolved Oxygen	mg/l	7	6.7	8.3	10.6	7.9	7.0	10.3	7.5	7.6	
pH	-	7	7.9	8.1	8.5	8.0	8.4	8.2	8.0	8.2	
Conductivity @ 20°C	µS/cm	7	402	438	522	427	483	490	420	415	
Alkalinity	mmol/l	7	2.5	3.2	3.6	3.4	3.5	3.2	3.0	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.29	0.73	1.78	0.59	1.28	1.28	0.38	0.53	
Nitrite-N (NO ₂ ⁻ -N)	mg/l	7	0.010	0.023	0.050	0.020	0.038	0.015	0.027	0.025	
Nitrate-N (NO ₃ ⁻ -N)	mg/l	7	0.63	1.59	2.30	1.76	2.04	1.82	1.80	1.05	
Organic Nitrogen	mg/l	1		1.12							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	7	0.020	0.056	0.090	0.060	0.072	0.060	0.040	0.075	
Total Phosphorus	mg/l	3	0.11	0.13	0.15						
Sodium (Na ⁺)	mg/l	2	23.9	23.9	23.9						
Potassium (K ⁺)	mg/l	2	3.0	3.0	3.0						
Calcium (Ca ²⁺)	mg/l	7	46.1	54.5	65.3	52.0	65.1	65.1	50.5	50.0	
Magnesium (Mg ²⁺)	mg/l	7	11.0	12.8	15.6	12.2	14.9	13.5	12.5	12.8	
Chloride (Cl ⁻)	mg/l	7	26	28	32	28	30	28	29	28	
Sulphate (SO ₄ ²⁻)	mg/l	7	33	39	47	37	45	43	39	36	
Iron (Fe)	mg/l	6	0.25	0.50	0.93	0.44	0.74	0.39	0.71	0.40	
Manganese (Mn)	mg/l	6	0.030	0.056	0.080	0.053	0.080	0.067	0.066	0.035	
Zinc (Zn)	µg/l	4	0.5	7.9	30.0						
Copper (Cu)	µg/l	6	0.5	7.8	25.0	3.3	19.5	3.3	19.5	0.5	
Chromium (Cr) - total	µg/l	6	5.0	7.5	20.0	5.0	12.5	12.5	5.0	5.0	
Lead (Pb)	µg/l	4	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	3	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	4	0.5	0.5	0.5						
Arsenic (As)	µg/l	2	3.0	3.0	3.0						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	7	1.6	2.7	4.2	3.2	3.7	3.3	3.0	1.8	
COD _{Cr}	mg/l	3	10.7	11.8	13.9						
COD _{Mn}	mg/l	7	2.6	4.1	5.4	3.8	5.3	4.4	4.8	2.8	
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.001						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	2	1.8	3.9	5.9						

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chiclu M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	7	2.4	15.2	23.2	20.9	23.0	2.5	18.5	23.1	
Suspended Solids	mg/l										
Dissolved Oxygen	mg/l	7	7.6	8.5	10.7	8.1	7.7	9.8	8.1	7.9	
pH	-	7	7.8	8.1	8.3	8.1	8.2	8.1	8.0	8.2	
Conductivity @ 20°C	µS/cm	7	400	433	504	417	473	479	414	414	
Alkalinity	mmol/l	7	2.5	3.1	3.4	3.3	3.4	3.2	3.0	3.4	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.17	0.62	1.24	0.45	1.18	0.86	0.29	0.71	
Nitrite-N (NO ₂ ⁻ -N)	mg/l	7	0.010	0.016	0.040	0.010	0.028	0.015	0.020	0.010	
Nitrate-N (NO ₃ ⁻ -N)	mg/l	7	0.48	1.60	3.02	1.40	2.43	1.88	1.91	0.87	
Organic Nitrogen	mg/l	1		0.90							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	7	0.020	0.049	0.060	0.050	0.060	0.050	0.040	0.060	
Total Phosphorus	mg/l	3	0.10	0.11	0.13						
Sodium (Na ⁺)	mg/l	2	22.3	22.3	22.3						
Potassium (K ⁺)	mg/l	2	2.9	2.9	2.9						
Calcium (Ca ²⁺)	mg/l	7	50.1	57.3	71.7	55.3	67.1	67.9	51.8	55.0	
Magnesium (Mg ²⁺)	mg/l	7	9.5	11.7	15.8	11.7	13.5	12.8	11.9	10.3	
Chloride (Cl ⁻)	mg/l	7	20	27	32	28	30	25	27	28	
Sulphate (SO ₄ ²⁻)	mg/l	7	32	39	43	42	43	43	37	40	
Iron (Fe)	mg/l	6	0.30	0.53	1.14	0.43	0.85	0.32	0.85	0.43	
Manganese (Mn)	mg/l	6	0.029	0.047	0.081	0.044	0.066	0.043	0.065	0.035	
Zinc (Zn)	µg/l	4	0.5	34.4	77.0						
Copper (Cu)	µg/l	6	0.5	23.5	63.0	19.0	51.0	8.8	42.0	19.8	
Chromium (Cr) - total	µg/l	6	5.0	7.5	20.0	5.0	12.5	12.5	5.0	5.0	
Lead (Pb)	µg/l	4	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	3	0.50	5.50	8.00						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	4	0.5	0.5	0.5						
Arsenic (As)	µg/l	2	3.0	3.0	3.0						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	7	1.2	2.7	3.8	3.1	3.7	3.3	2.9	1.8	
COD _{Cr}	mg/l	3	11.8	12.6	13.9						
COD _{Mn}	mg/l	7	2.8	3.9	5.1	3.5	5.0	4.1	4.5	2.8	
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.002						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	2	1.2	4.2	7.1						

* in case of dissolved oxygen C10 was calculated

River	Danube	Catchment	698600 km ²	BG05
Distance from the mouth [km]	375.0	Altitude	7 m	
Location	Silistra/Chiclu R			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	7	2.4	15.2	23.2	20.9	23.0	2.5	18.5	23.1	
Suspended Solids	mg/l										
Dissolved Oxygen	mg/l	7	7.7	8.6	10.2	8.2	7.8	10.0	8.0	8.0	
pH	-	7	7.9	8.1	8.3	8.1	8.2	8.2	8.0	8.2	
Conductivity @ 20°C	µS/cm	7	396	424	494	411	462	467	409	404	
Alkalinity	mmol/l	7	2.5	3.2	3.6	3.2	3.5	3.2	3.0	3.5	
Ammonium-N (NH ₄ ⁺ -N)	mg/l	6	0.13	0.42	0.85	0.32	0.74	0.48	0.31	0.49	
Nitrite-N (NO ₂ ⁻ -N)	mg/l	7	0.010	0.021	0.040	0.020	0.034	0.015	0.027	0.020	
Nitrate-N (NO ₃ ⁻ -N)	mg/l	7	0.51	1.57	2.72	1.60	2.11	1.70	1.94	0.90	
Organic Nitrogen	mg/l	1		0.78							
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	7	0.040	0.051	0.080	0.050	0.068	0.040	0.050	0.065	
Total Phosphorus	mg/l	3	0.11	0.12	0.13						
Sodium (Na ⁺)	mg/l	3	1.0	11.8	17.2	17.2	17.2	17.2	1.0		
Potassium (K ⁺)	mg/l	2	2.8	2.8	2.8						
Calcium (Ca ²⁺)	mg/l	7	50.1	58.9	69.3	56.0	66.2	66.7	56.3	55.0	
Magnesium (Mg ²⁺)	mg/l	7	6.0	11.0	15.8	12.0	14.2	13.4	12.5	6.5	
Chloride (Cl ⁻)	mg/l	7	17	24	32	25	30	20	26	26	
Sulphate (SO ₄ ²⁻)	mg/l	7	34	40	45	42	43	42	38	39	
Iron (Fe)	mg/l	6	0.30	0.61	1.30	0.51	0.99	0.49	0.97	0.37	
Manganese (Mn)	mg/l	6	0.024	0.043	0.078	0.038	0.064	0.033	0.064	0.032	
Zinc (Zn)	µg/l	4	0.5	39.4	77.0						
Copper (Cu)	µg/l	6	0.5	19.5	62.0	15.5	42.5	6.8	20.5	31.3	
Chromium (Cr) - total	µg/l	6	5.0	7.5	20.0	5.0	12.5	12.5	5.0	5.0	
Lead (Pb)	µg/l	4	0.5	0.5	0.5						
Cadmium (Cd)	µg/l	3	0.50	0.50	0.50						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	4	0.5	0.5	0.5						
Arsenic (As)	µg/l	2	3.0	3.5	4.0						
Aluminium (Al)	µg/l										
BOD ₅	mg/l	7	1.5	2.6	4.4	2.1	4.2	2.2	3.3	1.9	
COD _{Cr}	mg/l	3	12.9	15.7	18.2						
COD _{Mn}	mg/l	7	2.9	4.0	5.4	3.4	5.3	4.2	4.7	2.9	
DOC	mg/l										
Phenol index	mg/l	3	0.001	0.001	0.002						
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l	2	1.2	1.8	2.4						

* in case of dissolved oxygen C10 was calculated

River	/Iskar	Catchment	8370 km ²	BG06
Distance from the mouth [km]	28.0	Altitude	31 m	
Location	Orechovitza M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	4	4.2	12.9	28.0						
Suspended Solids	mg/l	4	18	60	141						
Dissolved Oxygen	mg/l	4	8.3	9.6	11.8						
pH	-	4	7.6	7.9	8.2						
Conductivity @ 20°C	µS/cm	4	452	555	635						
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l	1		0.53							
Nitrite-N (NO ₂ ⁻ -N)	mg/l	4	0.010	0.043	0.091						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	4	0.75	2.77	4.13						
Organic Nitrogen	mg/l	3	0.11	0.27	0.53						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	4	0.020	0.633	1.550						
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	3	57.6	63.1	68.4						
Magnesium (Mg ²⁺)	mg/l	3	15.1	18.6	21.6						
Chloride (Cl ⁻)	mg/l	4	30	41	48						
Sulphate (SO ₄ ²⁻)	mg/l	4	10	63	116						
Iron (Fe)	mg/l	4	0.11	0.15	0.25						
Manganese (Mn)	mg/l	4	0.005	0.011	0.030						
Zinc (Zn)	µg/l	1		30.0							
Copper (Cu)	µg/l	1		10.0							
Chromium (Cr) - total	µg/l										
Lead (Pb)	µg/l	1		10.0							
Cadmium (Cd)	µg/l	1		10.00							
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l										
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	5.3	6.6	8.3						
COD _{Cr}	mg/l	1		8.0							
COD _{Mn}	mg/l	4	6.6	9.6	14.8						
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l	2	0.270	0.285	0.300						
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Jantra	Catchment	6860 km ²	BG07
Distance from the mouth [km]	12.0	Altitude	32 m	
Location	Karantzi M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	3	1.0	7.0	11.0						
Suspended Solids	mg/l	3	18	38	52						
Dissolved Oxygen	mg/l	3	9.0	9.6	10.0						
pH	-	3	7.0	7.6	7.9						
Conductivity @ 20°C	µS/cm	3	505	570	635						
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l										
Nitrite-N (NO ₂ ⁻ -N)	mg/l	3	0.010	0.016	0.023						
Nitrate-N (NO ₃ ⁻ -N)	mg/l	3	0.22	0.94	1.84						
Organic Nitrogen	mg/l	3	0.01	0.02	0.04						
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	3	0.250	0.360	0.530						
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l	1		89.4							
Magnesium (Mg ²⁺)	mg/l	1		18.9							
Chloride (Cl ⁻)	mg/l	3	21	40	57						
Sulphate (SO ₄ ²⁻)	mg/l	3	10	11	14						
Iron (Fe)	mg/l	3	0.01	0.10	0.17						
Manganese (Mn)	mg/l	3	0.020	0.027	0.030						
Zinc (Zn)	µg/l	2	0.5	15.3	30.0						
Copper (Cu)	µg/l	2	10.0	10.0	10.0						
Chromium (Cr) - total	µg/l										
Lead (Pb)	µg/l	2	10.0	15.0	20.0						
Cadmium (Cd)	µg/l	2	0.50	5.25	10.00						
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	1		0.5							
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	3	3.3	4.6	5.6						
COD _{Cr}	mg/l	1		8.0							
COD _{Mn}	mg/l	3	6.2	7.2	8.8						
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l	2	0.05	1.53	3.00						
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated

River	/Russ.Lom	Catchment	2800 km ²	BG08
Distance from the mouth [km]	13.0	Altitude	22 m	
Location	Basarbovo M			1996

Determinand name	Unit	N	Min	Mean	Max	C50	C90*	Q1	Q2	Q3	Q4
Flow	m ³ /s										
Temperature	°C	5	3.1	10.9	19.6	9.4	19.1	3.6	15.8		
Suspended Solids	mg/l	5	40	502	860	476	839	184	715		
Dissolved Oxygen	mg/l	5	5.4	8.1	11.4	7.2	6.1	10.4	6.6		
pH	-	5	7.0	7.8	8.3	8.1	8.3	7.3	8.2		
Conductivity @ 20°C	µS/cm	5	794	878	955	867	945	943	834		
Alkalinity	mmol/l										
Ammonium-N (NH ₄ ⁺ -N)	mg/l										
Nitrite-N (NO ₂ ⁻ -N)	mg/l	5	0.080	0.114	0.180	0.100	0.156	0.100	0.123		
Nitrate-N (NO ₃ ⁻ -N)	mg/l	5	7.40	8.60	11.00	7.80	10.20	7.60	9.27		
Organic Nitrogen	mg/l	5	0.14	0.34	0.53	0.30	0.52	0.52	0.22		
Ortho-Phosphate-P (PO ₄ ³⁻ -P)	mg/l	5	0.210	1.068	2.000	1.100	1.840	1.550	0.747		
Total Phosphorus	mg/l										
Sodium (Na ⁺)	mg/l										
Potassium (K ⁺)	mg/l										
Calcium (Ca ²⁺)	mg/l										
Magnesium (Mg ²⁺)	mg/l										
Chloride (Cl ⁻)	mg/l	3	42	49	63						
Sulphate (SO ₄ ²⁻)	mg/l	3	56	67	85						
Iron (Fe)	mg/l	2	0.42	0.56	0.70						
Manganese (Mn)	mg/l	2	0.055	0.172	0.288						
Zinc (Zn)	µg/l	2	3.0	20.5	38.0						
Copper (Cu)	µg/l	2	5.0	22.5	40.0						
Chromium (Cr) - total	µg/l										
Lead (Pb)	µg/l										
Cadmium (Cd)	µg/l										
Mercury (Hg)	µg/l										
Nickel (Ni)	µg/l	1		10.0							
Arsenic (As)	µg/l										
Aluminium (Al)	µg/l										
BOD ₅	mg/l	5	9.5	11.3	12.5	11.5	12.3	10.8	11.7		
COD _{Cr}	mg/l										
COD _{Mn}	mg/l	5	8.0	9.9	11.0	10.7	11.0	9.5	10.2		
DOC	mg/l										
Phenol index	mg/l										
Anionic active surfactants	mg/l										
Petroleum hydrocarbons	mg/l										
AOX	µg/l										
Lindane	µg/l										
pp DDT	µg/l										
Atrazine	µg/l										
Chloroform	µg/l										
Carbon tetrachloride	µg/l										
Trichloroethylene	µg/l										
Tetrachloroethylene	µg/l										
Total Coliforms (37°C)	x10 ³ CFU/100 ml										
Faecal Coliforms (44°C)	x10 ³ CFU/100 ml										
Faecal Streptococci	x10 ³ CFU/100 ml										
Salmonella sp.	in 1 litre										
Macrozoobenthos	no. of taxa										
Macrozoobenthos	sapr.index										
Chlorophyll-a	µg/l										

* in case of dissolved oxygen C10 was calculated