

Supporting Information  
Annex 1

Necula N., Tuşa I.M., Sidoroff M.E., Iţcuş C., Florea D., Amărioarei A., Păun A., Pacioglu O., Păun M., 2022. How accurate is the remote sensing based estimate of water physico-chemical parameters in the Danube Delta (Romania)? Ann. For. Res. 65(2): 103-118.

Parameter	measure unit	ISO standard used for analysis	Instruments or method used for analysis	Year	Caraorman	Ceatal Ismail	Ceatal Sf. Gheorghe	Chilia Veche	Crisan	Lacul Razim - Gura Portitei	Lacul Taranova	Murighiol	Pardina	Periprava	Sf. Gheorghe - Canal Paladin		
Alcalinity	(milliequivalent)	9963-1 :2002	Titration	2018	2.62 (0.49)	2.73 (0.47)	2.55 (0.63)	2.51 (0.63)	2.55 (0.63)	2.91 (0.21)	3.3 (0.42)	2.58 (0.59)	2.62 (0.32)	2.51 (0.63)	3.72 (1.15)		
					[2.27, 2.96]	[2.4, 3.06]	[2.11, 3]	[2.07, 2.96]	[2.11, 3]	[2.76, 3.06]	[3, 3.6]	[2.17, 3]	[2.4, 2.85]	[2.07, 2.96]	[2.91, 4.54]		
				2019	3.12 (0.03)	3.5 (0.44)	3.53 (0.54)	3.3 (0.29)	3.4 (0.43)	3.34 (0.36)	3.4 (0.43)	3.66 (0.94)	3.3 (0.43)	3.34 (0.36)	2.91 (0.27)		
					[3.1, 3.14]	[3.19, 3.81]	[3.14, 3.91]	[3.09, 3.5]	[3.09, 3.7]	[3.09, 3.6]	[3.09, 3.7]	[2.99, 4.32]	[2.99, 3.6]	[3.09, 3.6]	[2.72, 3.1]		
				2020	2.59 (0.41)	3.09 (0.55)	2.9 (0)	2.66 (0.47)	2.52 (0.01)	2.86 (0.34)	3.28 (0.62)	3.62 (1.49)	2.82 (0.4)	2.46 (0.05)	2.98 (0.37)		
					[2.3, 2.88]	[2.7, 3.48]	[2.9, 2.9]	[2.33, 3]	[2.52, 2.53]	[2.62, 3.1]	[2.84, 3.72]	[2.57, 4.68]	[2.53, 3.1]	[2.43, 2.5]	[2.72, 3.24]		
BOD	mg/L	5815-1:2020	Dissolved oxygen	2018	2.7 (0.81)	3.16 (0.16)	2.96 (0.02)	2.26 (0.11)	2.43 (0.23)	1.98 (0.03)	2.94 (0.01)	2.44 (0.08)	2.13 (0.13)	3.1 (0.03)	6.37 (3.04)		
					[2.13, 3.27]	[3.04, 3.27]	[2.95, 2.98]	[2.18, 2.34]	[2.27, 2.59]	[1.96, 2]	[2.93, 2.94]	[2.38, 2.5]	[2.04, 2.22]	[3.08, 3.12]	[4.22, 8.52]		
				2019	2.71 (0.7)	2.62 (0.94)	13.88 (16.43)	3.92 (1.48)	4.06 (1.49)	22.52 (28.82)	15.55 (10.25)	4.94 (3.9)	13.68 (15.87)	9.94 (9.71)	2.7 (0.42)		
					[2.22, 3.21]	[1.96, 3.29]	[2.27, 25.5]	[2.88, 4.97]	[3.01, 5.12]	[2.14, 42.9]	[8.31, 22.8]	[2.18, 7.7]	[2.46, 24.9]	[3.07, 16.8]	[2.4, 3]		
				2020	9.55 (9.12)	15.65 (17.47)	26 (0)	4.4 (2.26)	21.6 (27.44)	28.5 (0.71)	11.95 (12.8)	5.15 (4.03)	7 (5.66)	7.75 (7.42)	2.26 (0.2)		
					[3.1, 16]	[3.3, 28]	[26, 26]	[2.8, 6]	[2.2, 41]	[28, 29]	[2.9, 21]	[2.3, 8]	[3, 11]	[2.5, 13]	[2.12, 2.4]		
Ca	mg/L	11885:2009	ICP-OES (Inductive)	2018	39.6 (2.4)	46.25 (4.17)	45.5 (5.66)	45.35 (4.74)	43.45 (5.3)	48.9 (1.13)	47.1 (2.26)	46.2 (4.1)	46.45 (4.6)	46.15 (4.31)	56.6 (10.89)		
					[37.9, 41.3]	[43.3, 49.2]	[41.5, 49.5]	[42, 48.7]	[39.7, 47.2]	[48.1, 49.7]	[45.5, 48.7]	[43.3, 49.1]	[43.2, 49.7]	[43.1, 49.2]	[48.9, 64.3]		
				2019	43 (0.57)	49.85 (0.21)	49.15 (0.21)	49.85 (0.21)	49.15 (0.92)	50.1 (0.42)	48.2 (4.81)	50.35 (0.78)	45.9 (5.8)	50.05 (0.64)	48.95 (2.9)		
					[42.6, 43.4]	[49.7, 50]	[49, 49.3]	[49.7, 50]	[48.5, 49.8]	[49.8, 50.4]	[44.8, 51.6]	[49.8, 50.9]	[41.8, 50]	[49.6, 50.5]	[46.9, 51]		
				2020	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)	NA (NA)
					[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	[NA, NA]	
Cl	mg/L	9297:2001	titration with AgNo3	2018	28.85 (3.61)	16.45 (19.73)	27.3 (5.23)	26.65 (5.3)	27.3 (5.23)	40.8 (13.86)	29.65 (8.56)	27.15 (4.03)	29.35 (3.32)	27.3 (6.22)	28.3 (3.82)		
					[26.3, 31.4]	[2.5, 30.4]	[23.6, 31]	[22.9, 30.4]	[23.6, 31]	[31, 50.6]	[23.6, 35.7]	[24.3, 30]	[27, 31.7]	[22.9, 31.7]	[25.6, 31]		
				2019	31.75 (0.78)	34.05 (7)	34.75 (5.02)	25.15 (2.47)	35.1 (4.53)	30.45 (4.03)	32.1 (0.28)	32.95 (1.48)	62.25 (42.36)	30.5 (0)	26.25 (7.99)		
					[31.2, 32.3]	[29.1, 39]	[31.2, 38.3]	[23.4, 26.9]	[31.9, 38.3]	[27.6, 33.3]	[31.9, 32.3]	[31.9, 34]	[32.3, 92.2]	[30.5, 30.5]	[20.6, 31.9]		
				2020	25.8 (2.4)	21.85 (0.07)	20.4 (0)	22.25 (2.33)	23 (4.38)	22.95 (2.33)	24.4 (0.92)	24.5 (4.38)	26.5 (8.34)	25.1 (6.36)	28.05 (10.54)		
					[24.1, 27.5]	[21.8, 21.9]	[20.4, 20.4]	[20.6, 23.9]	[19.9, 26.1]	[21.3, 24.6]	[23.4, 24.7]	[21.3, 27.5]	[20.6, 32.4]	[20.6, 29.6]	[20.6, 35.5]		
CO2	mg/L	8911-1971	titration	2018	15.25 (21.57)	15.25 (21.57)	14.1 (21.57)	15.25 (19.94)	15.25 (21.57)	13.05 (18.46)	28.3 (40.02)	13.05 (21.57)	13.05 (18.46)	10.9 (15.41)	26.15 (36.98)		
					[0, 5]	[0, 5]	[0, 5]	[0, 20]	[0, 5]	[0, 11]	[0, 6]	[0, 5]	[0, 26]	[0, 8]	[0, 21]		
				2019	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
					[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]	[0, 0]		
				2020	2.2 (3.11)	5.5 (7.78)	12.1 (0)	1.1 (1.56)	4.4 (6.22)	5.5 (7.78)	4.4 (6.22)	3.3 (4.67)	3.3 (4.67)	5.5 (7.78)	7.5 (10.61)		
					[0, 4.4]	[0, 11]	[12.1, 12.1]	[0, 2.2]	[0, 8.8]	[0, 11]	[0, 8.8]	[0, 6.6]	[0, 6.6]	[0, 11]	[0, 15]		
Cu	mg/L	11885:2009	ICP-OES	2018	1.5 (2.12)	2.45 (3.46)	2.2 (3.11)	3 (4.24)	1.95 (2.76)	1.7 (2.4)	0.85 (1.2)	2.15 (3.04)	2.7 (3.81)	1.5 (2.12)	1.85 (2.61)		
					[0, 3]	[0, 4.9]	[0, 4.4]	[0, 6]	[0, 3.9]	[0, 3.4]	[0, 1.7]	[0, 4.3]	[0.01, 5.4]	[0, 3]	[0, 3.7]		
				2019	1.1 (0.14)	0.5 (0.71)	0 (0)	5 (4.24)	1 (1.41)	3.4 (1.98)	1 (1.41)	0 (0)	1.85 (0.21)	1.5 (2.12)	0.5 (0.71)		
	[1, 1.2]	[0, 1]	[0, 0]	[2, 8]	[0, 2]	[2, 4.8]	[0, 2]	[0, 0]	[1.7, 2]	[0, 3]	[0, 1]						

Detergents	mg/L	903:2003	UV-VIS spectrophotometer	2020	1.3 (1.84) [0, 2.6]	0.55 (0.78) [0, 1.1]	0 (0) [0, 0]	1.5 (2.12) [0, 3]	1.3 (1.84) [0, 2.6]	1.7 (2.4) [0, 3.4]	1.4 (1.98) [0, 2.8]	1.6 (2.26) [0, 3.2]	1.5 (2.12) [0, 3]	0 (0) [0, 0]	1.5 (0.71) [1, 2]			
				2018	0 (0) [0, 0]	0.18 (0.02) [0.17, 0.2]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0.18 (0.03) [0.16, 0.2]	
				2019	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	9.26 (12.93) [0.12, 18.4]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]
				2020	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0.05 (0.07) [0, 0.1]
				2018	8.81 (0.04) [8.78, 8.84]	9.39 (0.62) [8.95, 9.83]	9.39 (0.62) [8.95, 9.83]	9.35 (0.44) [9.04, 9.66]	9.22 (0.54) [8.84, 9.61]	9.89 (0.18) [9.77, 10.02]	9.76 (0.29) [9.55, 9.96]	9.98 (0.13) [9.88, 10.07]	9.36 (0.42) [9.06, 9.66]	9.25 (0.27) [9.06, 9.44]	11.62 (2.68) [9.72, 13.51]			
				2019	8.91 (0.04) [8.88, 8.94]	9.84 (0.5) [9.48, 10.19]	9.68 (0.35) [9.43, 9.92]	9.89 (0.42) [9.59, 10.19]	9.46 (0.27) [9.27, 9.65]	9.89 (0.11) [9.81, 9.97]	9.84 (0.35) [9.59, 10.08]	10.05 (0.35) [10.08, 10.3]	10.46 (0.93) [9.81, 11.12]	9.75 (0.23) [9.59, 9.92]	9.56 (0.66) [9.09, 10.03]			
K	mg/L	1185:2009	ICP-OES	2020	10.93 (4.48) [7.76, 14.1]	12.67 (5.56) [8.74, 16.6]	14.6 (0) [14.6, 14.6]	10.71 (3.23) [8.43, 13]	10.2 (2.69) [8.29, 12.1]	10.88 (2.72) [8.95, 12.8]	11.77 (4.29) [8.74, 14.8]	11.91 (4.37) [8.82, 15]	11.56 (4.02) [8.72, 14.4]	10.51 (2.54) [8.71, 12.3]	9.67 (0.82) [9.09, 10.25]			
				2018	3.21 (1.51) [2.15, 4.28]	2.59 (0.35) [2.35, 2.84]	2.65 (0.49) [2.3, 3]	2.66 (0.49) [2.32, 3.01]	2.88 (0.91) [2.24, 3.53]	3.05 (0.07) [3, 3.1]	2.99 (0.37) [2.73, 3.25]	2.61 (0.47) [2.28, 2.94]	2.7 (0.49) [2.35, 3.05]	2.6 (0.53) [2.23, 2.98]	4.06 (1.55) [2.96, 5.15]			
				2019	3.29 (1.19) [2.45, 4.13]	2.64 (0.51) [2.28, 3]	2.63 (0.54) [2.25, 3.01]	2.59 (0.45) [2.27, 2.91]	2.86 (0.41) [2.57, 3.15]	2.61 (0.45) [2.29, 2.93]	3.97 (2.41) [2.27, 5.68]	2.59 (0.42) [2.3, 2.89]	3.97 (1.34) [3.03, 4.92]	2.8 (0.81) [2.23, 3.38]	2.33 (0.21) [2.18, 2.48]			
				2020	9.95 (11.24) [2, 17.9]	2 (0.57) [1.6, 2.4]	1.7 (0) [1.7, 1.7]	2.08 (0.54) [1.7, 2.47]	2.28 (0.68) [1.8, 2.76]	2.37 (0.23) [2.2, 2.53]	2.3 (0.7) [1.8, 2.79]	2.22 (0.32) [2, 2.45]	2.08 (0.54) [1.7, 2.46]	2.22 (0.59) [1.8, 2.64]	2.71 (0.33) [2.48, 2.95]			
				2018	12.2 (1.41) [11.2, 13.2]	12.5 (2.12) [11, 14]	12.35 (2.33) [10.7, 14]	12.05 (2.19) [10.5, 13.6]	12.35 (1.91) [11, 13.7]	13.7 (0.42) [13.4, 14]	14.45 (2.76) [12.5, 16.4]	12.35 (2.33) [10.7, 14]	12.55 (2.47) [10.8, 14.3]	12.45 (2.19) [10.9, 14]	15.95 (2.9) [13.9, 18]			
				2019	12.2 (1.41) [11.2, 13.2]	11.7 (1.7) [10.5, 12.9]	11.85 (1.91) [10.5, 13.2]	11.8 (1.98) [10.4, 13.2]	12.3 (1.41) [11.3, 13.3]	11.85 (1.63) [10.7, 13]	12.2 (2.12) [10.7, 13.7]	11.95 (1.34) [11, 12.9]	17.05 (5.3) [13.3, 20.8]	11.9 (1.84) [10.6, 13.2]	11.3 (1.13) [10.5, 12.1]			
Mg	mg/L	11885:2009	ICP-OES	2020	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]	NA (NA) [NA, NA]			
				2018	17.05 (5.59) [13.1, 21]	16.15 (6.58) [11.5, 20.8]	16.35 (7.42) [11.1, 21.6]	16.1 (7.21) [11, 21.2]	16.45 (6.15) [12.1, 20.8]	19.5 (3.25) [17.2, 21.8]	18.45 (7) [13.5, 23.4]	16.15 (7.28) [11, 21.3]	16.9 (7.07) [11.9, 21.9]	16.8 (7.21) [11.7, 21.9]	23.95 (3.32) [21.6, 26.3]			
				2019	19.05 (2.33) [17.4, 20.7]	18.7 (4.1) [15.8, 21.6]	18.6 (4.38) [15.5, 21.7]	18.05 (4.45) [14.9, 21.2]	18.9 (3.25) [16.6, 21.2]	18.3 (3.96) [15.5, 21.1]	18.95 (5.16) [15.3, 22.6]	18.7 (3.54) [16.2, 21.2]	39.05 (23.97) [22.1, 56]	18.75 (4.17) [15.8, 21.7]	14.7 (0) [14.7, 14.7]			
				2020	13.46 (14.63) [3.11, 23.8]	15.4 (1.41) [14.4, 16.4]	15.9 (0) [15.9, 15.9]	17.55 (3.61) [15, 20.1]	17.15 (1.91) [15.8, 18.5]	17.85 (3.75) [15.2, 20.5]	18.15 (0.49) [17.8, 18.5]	16.9 (2.83) [14.9, 18.9]	15.45 (0.49) [15.1, 15.8]	16.4 (1.41) [15.4, 17.4]	18.5 (5.37) [14.7, 22.3]			
				2018	0.28 (0.06) [0.24, 0.32]	0.12 (0) [0.12, 0.12]	0.1 (0.03) [0.08, 0.12]	0.06 (0.02) [0.05, 0.08]	0.12 (0.04) [0.1, 0.15]	0.1 (0.03) [0.08, 0.12]	0.1 (0.1) [0.03, 0.17]	0.1 (0.02) [0.09, 0.12]	0.12 (0) [0.12, 0.12]	0.07 (0.03) [0.05, 0.09]	0.06 (0.05) [0.03, 0.1]			
				2019	0.04 (0.06) [0, 0.09]	0.11 (0.13) [0.02, 0.21]	0.19 (0.27) [0, 0.38]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0.18 (0.26) [0, 0.37]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0.06) [0, 0.08]	0.04 (0) [0, 0]			
NH4	mg/L	7150-1:2001	UV-VIS spectrophotometer	2020	0.01 (0.01) [0, 0.02]	0 (0.1) [0, 0.14]	0 (0) [0, 0]	0 (0) [0, 0]	0.01 (0.01) [0, 0.02]	0 (0) [0, 0]	0.02 (0.03) [0, 0.04]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0.01 (0.01) [0, 0.02]			
				2019	0.01 (0.01) [0, 0.02]	0 (0.1) [0, 0.14]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0.01 (0.01) [0, 0.02]	

NO2	mg/L	26777:2002	UV-VIS spectrophotometer	2018	0.05 (0) [0.05, 0.06]	0.08 (0.03) [0.06, 0.1]	0.09 (0.04) [0.06, 0.12]	0.04 (0.02) [0.03, 0.06]	0.07 (0.03) [0.05, 0.09]	0.03 (0.01) [0.02, 0.04]	0.03 (0) [0.02, 0.03]	0.07 (0.01) [0.06, 0.08]	0.05 (0.02) [0.03, 0.06]	0.05 (0.03) [0.03, 0.07]	0.05 (0.02) [0.04, 0.06]		
				2019	0.1 (0.14) [0, 0.2]	0 (0) [0, 0]	0.05 (0.07) [0, 0.1]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0.01) [0, 0.01]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]
				2020	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0.01) [0, 0.01]
	mg/L	7890-3:2000	UV-VIS spectrophotometer	2018	0.66 (0.14) [0.56, 0.76]	2.7 (1) [1.99, 3.41]	2.45 (1) [1.74, 3.16]	3.36 (1.61) [2.22, 4.49]	1.61 (0.87) [1, 2.23]	1.06 (1.33) [0.12, 2]	0.52 (0.39) [0.25, 0.8]	2.55 (1.02) [1.83, 3.27]	2.84 (1.41) [1.85, 3.84]	2.32 (0.85) [1.72, 2.92]	1.58 (1.32) [0.65, 2.51]		
				2019	0.94 (0.52) [0.57, 1.31]	0.41 (0.01) [0.4, 0.42]	0.32 (0.17) [0.2, 0.44]	2.94 (3.74) [0.29, 5.58]	2.6 (3.2) [0.33, 4.86]	3.48 (3.14) [1.26, 5.7]	0.32 (0.11) [0.25, 0.4]	3.87 (2.2) [2.31, 5.42]	3.1 (3.99) [0.28, 5.92]	2.89 (3.71) [0.27, 5.52]	0.4 (0.02) [0.38, 0.41]		
				2020	1.69 (0.66) [1.22, 2.16]	2.26 (1.43) [1.25, 3.27]	0 (0) [0, 0]	0.45 (0.35) [0.21, 0.7]	1.42 (0.23) [1.26, 1.58]	3.61 (4.17) [0.66, 6.56]	2.8 (0.93) [2.14, 3.46]	2.84 (0.67) [2.37, 3.32]	1.95 (1.75) [0.71, 3.18]	2.1 (1.74) [0.87, 3.33]	2.89 (3.51) [0.41, 5.37]		
O2	mg/L	5814:2013	multiparametre	2018	8 (0.02) [7.99, 8.02]	8.04 (0.05) [8.01, 8.08]	8.23 (0.11) [8.16, 8.31]	8.04 (0.06) [8, 8.08]	8.04 (0.04) [8.01, 8.06]	8.09 (0.04) [8.07, 8.12]	7.77 (0.05) [7.73, 7.8]	8.09 (0.01) [8.09, 8.1]	8.06 (0.04) [8.03, 8.09]	8.31 (0.04) [8.28, 8.34]	7.58 (0.05) [7.54, 7.61]		
				2019	0.7 (0.01) [0.69, 0.71]	0.74 (0.11) [0.67, 0.82]	4.27 (5.87) [0.12, 8.42]	2.58 (2.61) [0.73, 4.42]	1.96 (1.75) [0.72, 3.19]	2.25 (1.8) [0.98, 3.52]	5.79 (5.71) [1.75, 9.83]	2.42 (2.37) [0.75, 4.1]	2.6 (2.88) [0.56, 4.64]	2.25 (2.29) [0.63, 3.87]	3.26 (3.42) [0.84, 5.67]		
				2020	9.94 (4.89) [6.48, 13.4]	9.28 (6.68) [4.56, 14]	12.5 (0) [12.5, 12.5]	8.76 (3.73) [6.12, 11.4]	11.98 (8.65) [5.86, 18.1]	7.93 (3.63) [5.36, 10.5]	10.33 (4.62) [7.06, 13.6]	10.96 (7.4) [5.73, 16.2]	6.65 (7.71) [1.2, 12.1]	8.59 (7.79) [3.09, 14.1]	4.94 (1.04) [4.2, 5.67]		
	mg/L	11885:2009	ICP-OES	2018	0 (0) [0, 0]	0.2 (0.28) [0, 0.4]	1 (1.41) [0, 2]	0.35 (0.49) [0, 0.7]	0.35 (0.49) [0, 0.7]	0.15 (0.21) [0, 0.3]	0 (0) [0, 0]	0.25 (0.35) [0, 0.5]	0.65 (0.92) [0, 1.3]	0.1 (0.14) [0, 0.2]	0.6 (0.85) [0, 1.2]		
				2019	10.6 (14.99) [0, 21.2]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0.38) [0, 0.75]	
				2020	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0) [0, 0]	0 (0.53) [0, 0.75]	
PO4	mg/L	6878: 2005	UV-VIS spectrophotometer	2018	0.12 (0.04) [0.1, 0.15]	0.13 (0.07) [0.08, 0.18]	0.14 (0.08) [0.08, 0.19]	0.12 (0.08) [0.06, 0.17]	4.62 (6.36) [0.12, 9.12]	0.12 (0.02) [0.11, 0.14]	0.15 (0.14) [0.05, 0.25]	0.12 (0.09) [0.06, 0.19]	0.1 (0.05) [0.06, 0.13]	0.12 (0.07) [0.07, 0.17]	0.26 (0.12) [0.17, 0.34]		
				2019	0.2 (0.03) [0.18, 0.22]	0.09 (0.08) [0.03, 0.15]	0.12 (0.1) [0.05, 0.19]	0.25 (0.06) [0.21, 0.29]	0.18 (0.11) [0.1, 0.26]	0.18 (0.12) [0.12, 0.29]	0.2 (0.14) [0.03, 0.23]	0.13 (0.12) [0.11, 0.28]	0.2 (0.16) [0.07, 0.29]	0.18 (0.18) [0.07, 0.29]	0.14 (0.01) [0.01, 0.27]	0.08 (0.01) [0.07, 0.08]	
				2020	0.09 (0.12) [0, 0.17]	0.05 (0.07) [0, 0.1]	0 (NA) [0, 0]	0.04 (0.05) [0, 0.07]	0.12 (0.07) [0, 0.16]	0.04 (0.06) [0, 0.09]	0.2 (0.02) [0.19, 0.22]	0.04 (0.06) [0, 0.08]	0.04 (0.06) [0, 0.08]	0.04 (0.06) [0, 0.08]	0.04 (0.06) [0, 0.08]	0.18 (0.15) [0.08, 0.29]	
	mg/L	EPA 9038:1986	UV-VIS spectrophotometer	2018	14.65 (2.62) [12.8, 16.5]	16.7 (0.71) [16.2, 17.2]	31.9 (28.28) [11.9, 51.9]	12.6 (0.57) [12.2, 13]	14.45 (0.21) [14.3, 14.6]	19.7 (6.79) [14.9, 24.5]	11.9 (1.41) [10.9, 12.9]	16.1 (0.85) [15.5, 16.7]	16.55 (2.62) [14.7, 18.4]	37.6 (12.73) [28.6, 46.6]	10.5 (4.67) [7.2, 13.8]		
				2019	16.83 (14.52) [6.56, 27.1]	8.46 (2.46) [6.72, 10.2]	7.81 (3.66) [5.22, 10.4]	17.28 (16) [5.97, 28.6]	8.86 (1.9) [7.52, 10.2]	18.45 (9.4) [11.8, 25.1]	9.69 (6.1) [5.38, 14]	8.46 (4.57) [5.23, 11.7]	21.95 (22.13) [6.3, 37.6]	11.01 (7.91) [5.42, 16.6]	19.15 (10.82) [11.5, 26.8]		
				2020	21.5 (4.95) [18, 25]	26.75 (1.77) [25.5, 28]	25 (0) [25, 25]	27.1 (2.97) [25, 29.2]	30.85 (4.45) [27.7, 34]	29.25 (0.35) [29, 29.5]	27.15 (4.03) [24.3, 30]	28.6 (0.85) [28, 29.2]	25.6 (2.26) [24, 27.2]	27.9 (0.14) [27.8, 28]	16.97 (13.9) [7.14, 26.8]		
g/L	872: 2005		2018	12 (0) [12, 12]	19 (14.14) [9, 29]	13.5 (6.36) [9, 18]	16 (8.49) [10, 22]	14.5 (7.78) [9, 20]	12 (2.83) [10, 14]	16 (11.31) [8, 24]	19.5 (12.02) [11, 28]	12 (2.83) [10, 14]	15 (2.83) [10, 14]	15 (4.24) [12, 18]			

Suspended matter	NTU (nephelom 7027-1:2016)	Turbidimeter	2019	17.5 (0.71) [17, 18]	19 (16.97) [7, 31]	23 (19.8) [9, 37]	13.5 (7.78) [8, 19]	8 (5.66) [4, 12]	21 (21.21) [6, 36]	14 (0) [14, 14]	14 (0) [14, 14]	7 (4.24) [4, 10]	23 (25.46) [5, 41]	25 (24.04) [8, 42]	
			2020	6.5 (0.71) [6, 7]	6 (0) [6, 6]	5 (0) [5, 5]	7.5 (0.71) [7, 8]	7.5 (0.71) [7, 8]	6.5 (2.12) [5, 8]	8 (2.83) [6, 10]	8 (0) [8, 8]	7 (4.24) [4, 10]	8.5 (0.71) [8, 9]	6 (2.83) [4, 8]	
			2018	1.78 (2.06) [0.32, 3.24]	4.02 (3.16) [1.78, 6.25]	6.91 (7.47) [1.63, 12.2]	2.22 (0.04) [2.2, 2.25]	1.22 (0.64) [0.77, 1.67]	3.96 (1.19) [3.12, 4.8]	0.87 (0.69) [0.38, 1.36]	2.07 (0.88) [1.45, 2.69]	2.08 (0.09) [2.01, 2.14]	3.09 (1.28) [2.19, 4]	2.5 (0.98) [1.81, 3.2]	
			2019	11.04 (11.96) [2.59, 19.5]	7.54 (4.75) [4.18, 10.9]	4.74 (1.61) [3.61, 5.88]	22.7 (10.04) [15.6, 29.8]	14.3 (1.56) [13.2, 15.4]	14.06 (11.51) [5.92, 22.2]	6.57 (2.98) [4.47, 8.68]	20.35 (8.56) [14.3, 26.4]	9.97 (11.91) [1.55, 18.4]	4.36 (1.69) [3.16, 5.55]	10.58 (11.77) [2.26, 18.9]	
			2020	2.18 (1.92) [0.83, 3.54]	3.95 (2.05) [2.5, 5.4]	1.2 (0) [1.2, 1.2]	4.65 (4.88) [1.2, 8.1]	1.37 (0.68) [0.89, 1.85]	6.45 (5.73) [2.4, 10.5]	4.66 (3.34) [2.3, 7.03]	5.64 (4.72) [2.3, 8.97]	4.56 (5.37) [0.77, 8.36]	4.42 (3.27) [2.1, 6.73]	10.38 (11.48) [2.26, 18.5]	
			2018	2.66 (3.73) [0.03, 5.3]	3.1 (4.38) [0, 6.2]	2.9 (4.09) [0.01, 5.8]	1.8 (2.54) [0.01, 3.6]	1.85 (2.61) [0, 3.7]	2.6 (3.67) [0, 5.2]	1.81 (2.39) [0.12, 3.5]	4.85 (6.85) [0.01, 9.7]	4.3 (6.07) [0.01, 8.6]	2.15 (3.04) [0, 4.3]	2.3 (3.25) [0.01, 4.6]	
Zn	mg/L	11885:2009	ICP-OES	2019	3.35 (0.49) [3, 3.7]	2.75 (3.89) [0, 5.5]	4.85 (0.21) [4.7, 5]	4.45 (6.29) [0, 8.9]	3.75 (1.06) [3, 4.5]	4.5 (0.71) [4, 5]	5.8 (2.55) [4, 7.6]	7 (9.9) [0, 14]	5.6 (2.26) [4, 7.2]	3.6 (0.85) [3, 4.2]	2.9 (4.1) [0, 5.8]
				2020	1.95 (2.76) [0, 3.9]	0 (0) [0, 0]	0 (0) [0, 0]	3.15 (4.45) [0, 6.3]	1.45 (2.05) [0, 2.9]	3.2 (4.53) [0, 6.4]	2.2 (3.11) [0, 4.4]	2.5 (3.54) [0, 5]	2.7 (3.82) [0, 5.4]	0 (0) [0, 0]	2.55 (0.64) [2.1, 3]

mean (stdev) [min, max]