

**Table S1:** General statistics for major site variables (SD standard deviation, CV variation coefficient).

Feature	Variable	Abbreviation	Unit	Minimum	Maximum	Median	Average	SD	CV (%)
pH	pH	pH	-	3.4	9.3	7.7	7.4	1.1	15.3
total ions	electrical conductivity	EC	$\mu\text{S.cm}^{-1}$	24	3520	460	520	393	75.6
cations	sodium	Na	$\text{mg.L}^{-1}$	1.9	571.0	21.0	32.6	52.5	161.2
	potassium	K	$\text{mg.L}^{-1}$	0.4	39.1	6.5	7.8	6.0	77.1
	calcium	Ca	$\text{mg.L}^{-1}$	1.4	307.0	61.3	63.9	44.0	68.7
	magnesium	Mg	$\text{mg.L}^{-1}$	0.56	65.80	6.79	9.13	7.90	86.5
	aluminium	Al	$\text{mg.L}^{-1}$	0.02	2.53	0.09	0.15	0.24	157.6
	total iron	Fe	$\text{mg.L}^{-1}$	0.01	5.62	0.24	0.49	0.77	158.0
anions	chloride	Cl	$\text{mg.L}^{-1}$	3	921	37	52	80	154.6
	sulphate	SO <sub>4</sub>	$\text{mg.L}^{-1}$	<4	390	38	53	61	115.7
phosphorus	ortho-phosphate	ortho-P	$\text{mg.L}^{-1}$	<0,02	1.92	0.04	0.18	0.36	201.8
	total phosphorus	TP	$\text{mg.L}^{-1}$	<0,07	2.89	0.13	0.29	0.45	154.3
nitrogen	nitrate nitrogen	NO <sub>3</sub> -N	$\text{mg.L}^{-1}$	<0,05	6.60	0.03	0.41	1.10	268.3
	nitrite nitrogen	NO <sub>2</sub> -N	$\text{mg.L}^{-1}$	<0,01	0.22	0.01	0.02	0.03	163.7
	ammonium nitrogen	NH <sub>4</sub> -N	$\text{mg.L}^{-1}$	<0,08	6.40	0.08	0.28	0.70	251.6
	Kjeldahl nitrogen	KjN	$\text{mg.L}^{-1}$	0.3	10.0	1.5	1.9	1.3	68.5
	total inorganic nitrogen	TIN	$\text{mg.L}^{-1}$	0.07	7.95	0.24	0.78	1.38	176.4
	total organic nitrogen	TON	$\text{mg.L}^{-1}$	0.3	7.4	1.3	1.5	0.8	57.4
	total nitrogen	TN	$\text{mg.L}^{-1}$	0.37	10.52	1.83	2.36	1.79	75.6
silica	silica	SiO <sub>2</sub>	$\text{mg.L}^{-1}$	0.06	30.30	3.96	6.55	6.85	104.6
organic sustances	chemical oxygen demand	COD	$\text{mg.L}^{-1}$	1.5	309.0	37.4	40.7	27.5	67.6
	chemical oxygen demand, filtered	COD <sub>f</sub>	$\text{mg.L}^{-1}$	<1,5	143.5	26.2	28.0	16.8	59.9
	chemical oxygen demand, particulate	COD <sub>p</sub>	$\text{mg.L}^{-1}$	<1,5	162.2	9.1	12.2	14.5	119.0
	absorbance 254 nm (aromatic organics)	A254	$\text{m}^{-1}$	<0,2	2.3	0.3	0.3	0.3	85.9

	absorbance 440 nm (gelbstoff)	A440	m <sup>-1</sup>	0.002	0.397	0.024	0.036	0.046	127.4
phytoplankton	chlorophyll <i>a</i>	chl <i>a</i>	µg.L <sup>-1</sup>	<1	310	21	42	56	133.0
	phaeopigment	phaeo	µg.L <sup>-1</sup>	<1	102	2	5	9	206.8
metabolism	oxygen saturation	oxygen sat.	%	12	206	92	91	29	31.6
	potential gross oxygen production	pGOP	mg.L <sup>-1</sup>	-1.0	41.8	3.3	6.6	8.4	127.5
	biochemical oxygen demand	BOD	mg.L <sup>-1</sup>	0.2	8.8	1.7	2.1	1.4	64.1
morphometry	surface area of water body	surface	m <sup>2</sup>	211	739,743	13,331	46,032	95,788	208.1
	shoreline length of water body	perimeter	m	60	7168	702	1012	992	98.1
	maximum length of water body	length	m	20	2268	252	358	363	101.4
	maximum width of water body	width	m	10	1001	75	127	135	106.7
	maximum depth of water body	maximum	m	c. 0.5	c. 18	-	-	-	-
	shoreline density of water body	Dsl	-	0.01	0.28	0.05	0.06	0.05	75.8
soil	sand texture class within 50 m	sand	%	0	100	0	28	44	156.7
	sandloam texture class within 50 m	sandloam	%	0	100	0	30	44	146.4
	loam texture class within 50 m	loam	%	0	100	0	11	30	281.5
	peat texture class within 50 m	peat	%	0	100	0	8	26	332.9
	clay texture class within 50 m	clay	%	0	100	0	23	41	176.1
land cover	coastal dunes within 500 m	dune	%	0	84	0	1	10	756.0
	heathland within 500 m	heath	%	0	90	0	4	15	366.9
	deciduous trees within 500 m	deciduous	%	0	100	21	28	27	96.0
	coniferous trees within 500 m	coniferous	%	0	94	0	5	15	289.1
	poplar trees within 500 m	poplar	%	0	94	0	13	21	165.4
	arable fields within 500 m	field	%	0	55	0	8	14	180.1
	fallow land within 500 m	fallow	%	0	16	0	0	2	799.6
	pastures within 500 m	pasture	%	0	97	12	20	24	117.1
	built area within 500 m	built	%	0	60	0	4	10	237.9

	infrastructure within 500 m	infrastructure	%	0	52	0	3	8	259.8
	marshland within 500 m	marsh	%	0	72	0	6	13	217.2
	running water within 500 m	lotic	%	0	26	0	1	3	399.7
	standing water within 500	lentic	%	0	59	1	6	10	167.1
connectivity	standing water bodies within 500 m	ponds	number	0	72	6	9	9	100.0
	in- and outflows	connections	number	0	16	1	1.3	2	65.0
vegetation	wooded shoreline	wooded shore	%	0	100	60	55	36	66.4
	emergent cover	emergent	%	0	100	1	10	21	200.6
	submerged cover	submerged	%	0	100	1	21	35	165.2
	number of macrophytes	macrophytes	number	1	25	10	11	6	54.5

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