

An analysis of the reaction of Frogbit (*Hydrocharis Morsus-Ranae* L.) to cadmium contamination with regard to its use in the phytoremediation of water bodies

Table S1. Meteorological conditions in three consecutive research seasons against the background of long-term averages for the Meteorological Station in Szczecin.

Growing season	Month			
	VI	VII	VIII	VI-VIII
	Average of the air temperature (°C)			Average
1	18.5	22.3	17.0	19.3
2	18.3	18.2	18.3	18.3
3	17.6	19.2	18.4	18.4
1991-2021	17.2	18.8	18.4	18.1
	Insolation (h)			Sum
1	298.4	336.2	159.4	794.0
2	203.8	184.0	220.9	608.7
3	294.7	286.6	168.6	749.9
1966-2018	178.6	298.2	289.3	766.1

Table S2. The concentration of sediment [$\mu\text{g g}^{-1}$ d.w.] in the three tested growing seasons.

Conditions		Heavy metal (HM)			
PNK level	Term	0		Cd	
		Average	Standard error	Average	Standard error
low	I	0.30 ^a	0.002	0.30 ^a	0.002
	II	0.30 ^a	0.004	0.30 ^a	0.003
high	I	0.30 ^a	0.003	0.30 ^a	0.003
	II	0.30 ^a	0.003	0.30 ^a	0.003

HM, PNK level, Term, Growing season – statistically insignificant;

LSD_{0.05} (Least Significant Difference) for interaction PNK level and Term and HM = 0.01 (F = 0.66; p = 0.420678).

Table S3. The linear correlation between concentration of O₂ in water [mg dm^{-3}] and dry weight of *Hydrocharis morsus-ranae* [g] in the three tested growing seasons.

Conditions			Linear correlation		
PNK level	Term	Equation	Regression coefficient (r)	Probability (p)	Value of correlation
low	I	w.d. = $9.637 - 0.752 \cdot \text{C}_{\text{O}_2}$	r = -0.5663	p = 0.0566	-
	II	w.d. = $6.507 - 0.022 \cdot \text{C}_{\text{O}_2}$	r = -0.0084	p = 0.9793	-
high	I	w.d. = $5.571 - 0.226 \cdot \text{C}_{\text{O}_2}$	r = -0.5210	p = 0.0824	-
	II	w.d. = $6.788 - 0.203 \cdot \text{C}_{\text{O}_2}$	r = -0.5242	p = 0.0802	-

C_{O2} = O₂ concentration in water.

d.w. = dry weigh.

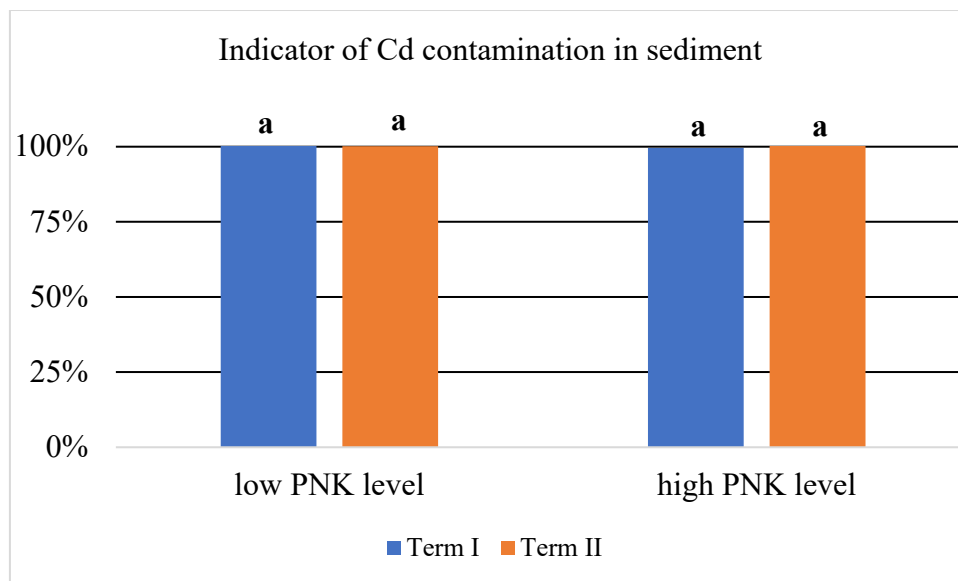


Figure S1. The indicator of Cd contamination in sediment in the three tested growing seasons.