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S Bentley	Variability of the concentration of mineral forms of nitrogen and phosphorus in watercourses
	in the agricultural catchment area (Bay of Puck, Baltic Sea, Poland)
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	Sa	mple	s		
Collection			VII – XII 2017		
Comparison			Regu Environm	ulation of ental Minister	
NO ₂ (mg/dm ³) П class 0.01 П class 0.03	NO ₃ . [mg/dm ³] 2.20 3.40	NH ₄₊ [mg/dm ³] 0.25 0.74	PO4 ^{3.} [mg/dm ³] 0.07 0.10	P [mg/dm³] 0.2 0.3	

Sampling points	N [mg N/dm²]	NO2 ⁻ [mg NO2 ⁻ /dm3]	NO ₃ [mg NO ₅ :/dm²]	NH4 ⁺ [mg NH4 ⁺ /dm ²]	N _{org} [mg N/dm³]
4	1.46	0.02	1.17	0.12	0.15
	100%	1%	80%	8%	11%
•	3.64	0.05	2.76	0.19	0.63
4	100%	2%	76%	5%	17%
	1.02	0.02	0.76	0.12	0.13
3	100%	2%	74%	12%	12%







Conclusions

- 1. The elevated concentrations of nutrients for Blądzikowski Stream were observed.
- The autumn fertilization could be the reason for the elevated nutrient concentrations recorded in August and September.
 In all measurement point the dominant form od nitrogen was nitrate (V).
- 4. Further research carried out within the Water Puck project will focus on accurate determining the land use in the analysed catchment areas and on estimation of the doses or mineral fertilizers used by farmers. It is also planned to analyze the variability of concentrations of nitrogen and phosphorus compounds during dry weather and during rain episodes.

