

Environmental Monitoring and Assessment

Examination of Degradation and Ecotoxicology of Pethoxamid and Metazachlor after Chlorine Dioxide Treatment

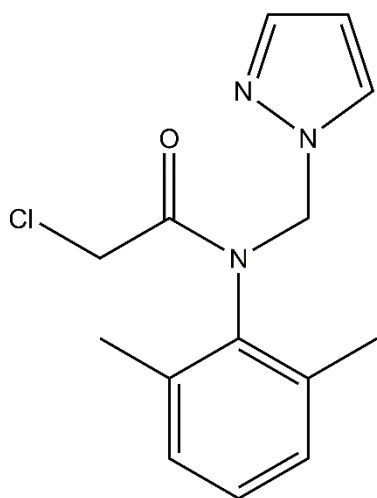
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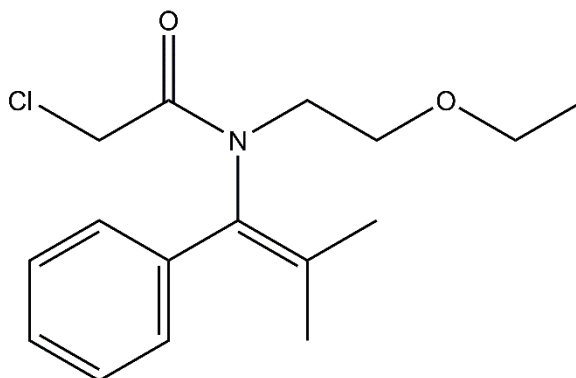
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Metazachlor



Pethoxamid

Fig. S1. Chemical structures of the chloracetamide herbicides.

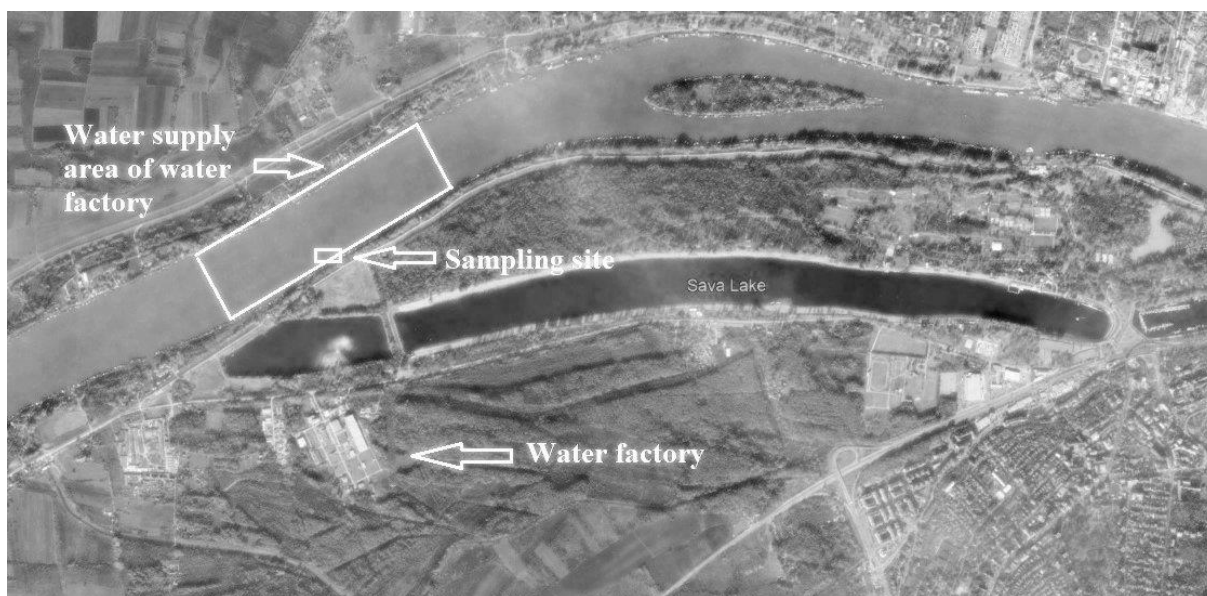


Fig. S2. Photograph of the sampling site, the Sava River, Belgrade (Google Earth, accessed 4 April 2020).

Table S1 Main Sava River water characteristics

Parameter	Unit	Value	Analysis method
BOD ₅	mg/L	1.10	UP 1.34/PC 12
TOC	mg/L	2.8	ISO 20236:2018
Humic acid	mass%	15	APHA AWWA WEF 5510 (B)
Fulvic acid	mass%	85	Environmental Science and Technology, 2007, 41(19), 6755-6761
Total Dissolved Salts	mg/L	22	UP 1.130/PC 12
Ca ²⁺	mg/L	52.30	ISO 6058:1984
Mg ²⁺	mg/L	10.46	ISO 6058:1984
Fe	µg/L	76.9	UP 1.37/PC 12 : 2019
Mn	µg/L	26.0	UP 1.37/PC 12 : 2019
Al	µg/L	81.6	UP 1.37/PC 12 : 2019
Zn	µg/L	11.0	UP 1.37/PC 12 : 2019
Cr	µg/L	1.1	UP 1.37/PC 12 : 2019
Cu	µg/L	2.3	UP 1.37/PC 12 : 2019
Pb	µg/L	1.0	UP 1.37/PC 12 : 2019
Cd	µg/L	0.02	UP 1.37/PC 12 : 2019
Ni	µg/L	1.4	UP 1.37/PC 12 : 2019
Co	µg/L	<0.5	UP 1.37/PC 12 : 2019
Sb	µg/L	<0.5	UP 1.37/PC 12 : 2019
As	µg/L	1.2	UP 1.37/PC 12 : 2019
B	µg/L	95.2	UP 1.37/PC 12 : 2019
HCO ₃ ³⁻	mg/L	210	SRPS EN ISO 9963-1 : 2007
Cl ⁻	mg/L	21.1	SRPS ISO 9297:1997
SO ₄ ²⁻	mg/L	13.5	UP 1.101/PC 1
o-PO ₄ ⁴⁻ (P)	mg/L	0.041	UP 1.102/PC 12
NH ₄ ⁺ (N)	mg/L	0.30	UP 1.96/PC 12
NO ₂ ²⁻ (N)	mg/L	0.004	UP 1.97/PC 12
NO ₃ ³⁻ (N)	mg/L	0.8	UP 1.98/PC 12
Polycyclic Aromatic Hydrocarbons	µg/L	<LOD	UP 1.44/PC 12 : 2019
Triazine-based pesticide	µg/L	<LOD	UP 1.124/PC 12 : 2019
Organochlorine pesticides	µg/L	<LOD	UP 1.42/PC 12 : 2019