



GAC Filter in Kretinga WWTP

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LOCATION

KRETINGA - a city in Lithuania,
near the Baltic sea

Population – 38 000;

WWTP capacity – 158 m³/h.



JSC „KRETINGA WATER“COMPANY



- 43 WTP;
- 12 WWTP;
- 52 pumping stations;
- About 200 km of
wastewater pipelines.

ROLE IN THE PROJECT

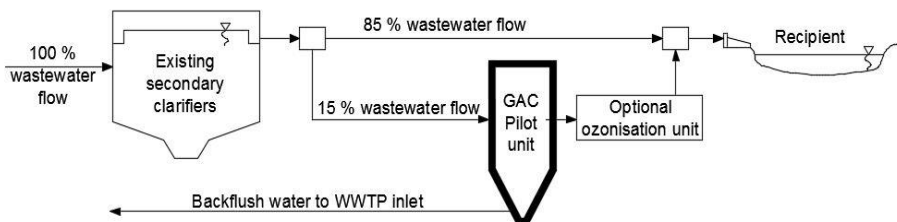
Granulated activated carbon (GAC) filter demonstration plant (pilot unit)

Main goal – advanced removal of micro-pollutants from wastewater

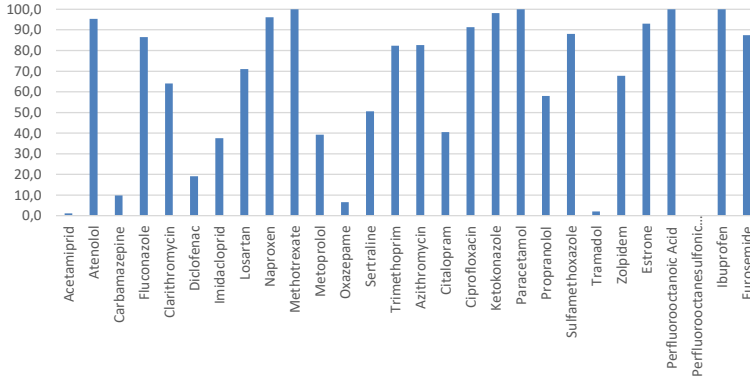


CONCEPTUAL DESIGN OF PILOT UNIT

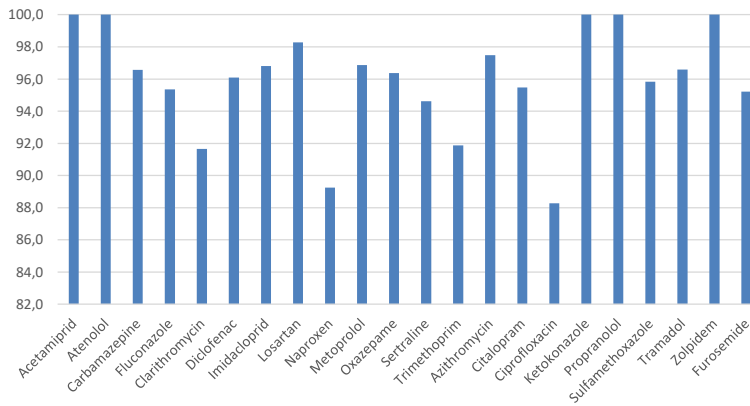
- GAC filter built indoors of existing tertiary treatment building (microstrain filters);
- Flow – 22 m³/h;



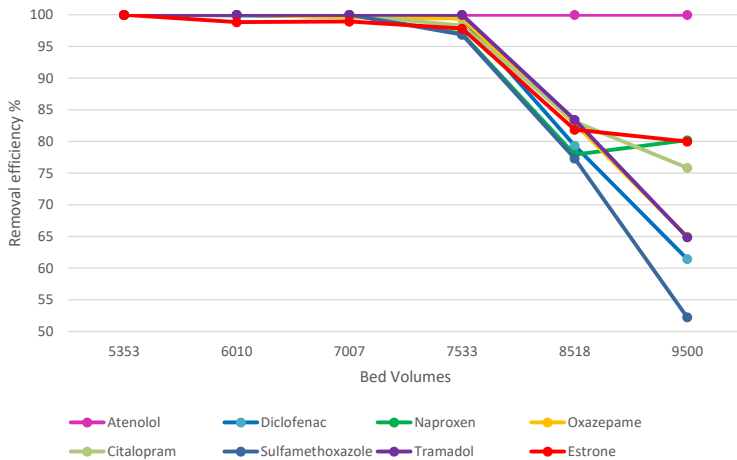
REMOVAL EFFICIENCY IN CONVENTIONAL WWTP



REMOVAL EFFICIENCY IN KRETINGA GAC FILTER



GAC FILTER BREAKTHROUGH



THINGS TO CONSIDER

- Investment/operational costs;
- Excellent quality of treated wastewater;
- Easy control of the unit;
- Additional benefits for your own plant?
 - Increasing water quality during peak pollution periods;
 - Possible use for high quality treated water;
 - Planning for more strict future effluent requirements.



THANK YOU FOR YOUR ATTENTION!

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