

**TERMÉSZET KÖZELI VÍZTISZTÍTÁS****SALLAI LÁSZLÓ, MOLNÁR TAMÁS**

SZTE MGK, Takarmányozástani és Műszaki Intézet,  
6800 Hódmezővásárhely, Andrásy út 15.  
[sallai@mgk.u-szeged.hu](mailto:sallai@mgk.u-szeged.hu)

**ABSTRACT - Wastewater treatment by reedbed system**

There are several different ways to treat the wastewater. The present practice the canalisation among other long distance situated settlements to get subsidy for the local authorities, but the running of these is very expensive and not environment friendly. Dealing with the treatment of domestic waste water is our important interest, in the second place we have to fulfil the environmental standards in connection with the joining to the European Union. In our country there are many half ready made plans in the case of villages counting canalisation with one bigger settlement's wastewater treatment plant transporting the wastewater through 10-20 km. According to sustainability analysis this solutions produce enormous environmental deficit. In the case of small settlements is a manifest solution the environment friendly wastewater treatment technology, inside it the utilisation of the constructed wetland technology. They are more cost effective to install and simple and inexpensive to run compared with the conventional biological and mechanical purification plants. Compared with these widespread artificial technologies the advantages of a ecological wastewater purification plant are the following:

- low investment costs (the sewage network is necessary of course);
- low maintenance and running costs (there is no energy consumption in the purification);
- there is no utilisation of chemicals and no secondary sewage sludge;
- landscape fit, environmental installation.

**Kulcsszavak:** Kommunális szennyvíz, kistelepülések, szennyezőanyag eltávolítás, hidraulikai terhelés