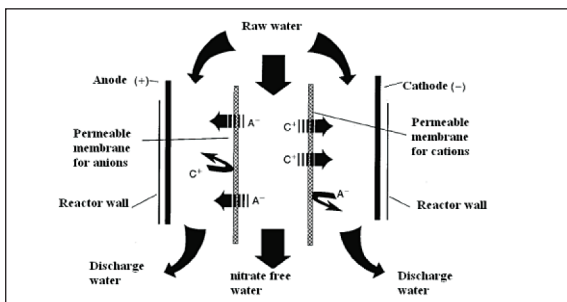


Goal of the project:

The main goal of this project is to monitor nitrate and nitrite parameters from groundwater and a literature study regarding the technical solutions for their removal.

Short description of the project:

The quality of certain groundwater sources was assessed envisaging their use as drinking water source. Nitrate, nitrite and ammonium parameters were determined once per month during the period of one year as operational monitoring program to use these sources for drinking water in a potential area susceptible as vulnerable to nitrates. Also, several unitary processes suitable for the removal of nitrates, nitrites and ammonium were identified in order to elaborate a specific technology for drinking water treatment.



Example of electro dialysis membrane

Project implemented by:

SC. SECOM SA Drobeta-Turnu-Severin

Implementation period: 2013

Fields of interest:

Drinking water treatment

Main activities:

Monitoring of nitrate, nitrite and ammonia for certain groundwater sources selected from areas vulnerable to nitrate;

Literature study regarding the main unitary process for removal of nitrate, nitrite and ammonium

Results:

Assessment of groundwater quality from Mehedinti county

Technical solutions for removal of nitrate, nitrite and ammonium as data base for feasibility study to design the technological flow for drinking water treatment

Financed through/by:

SC. SECOM SA Drobeta-Turnu-Severin

Research team:

- Assoc. Prof. dr. eng. Florica Manea-director
- Prof. dr. eng. Georgeta Burtica-member
- Dr. eng. Aniela Pop-member
- Eng. Sorina Motoc-member, PhD student
- Eng. Anamaria Baciu-member, PhD student

Research centre:

Research Centre for Environmental Science and Engineering

Applicability and transferability of the results:

Water and sewage operators

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