

WaterPro – Northern Runoffs into Profits

Reduction and recyclability of nutrient discharge caused by agriculture and extractive industry is investigated in WaterPro project by multinational and multidisciplinary consortium. Both industries are similar in a way that they use abundant natural resources and offer economic diversity and possibilities in sparsely populated areas such as Northern and Arctic Periphery areas.

Project objectives

- Identifying and collecting good practices for runoff management in the field of agriculture and mineral extraction in NPA areas
- Testing and developing collected and innovative practices further at selected pilot sites
- Transferring and capitalising the best solutions and knowledge -> model for shifting tools to other NPA-regions



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Extractive industry related actions

The extractive industry related actions in WaterPro are done by GTK (Geological Survey of Finland) and LTU (Luleå University of Technology).

GTK 's aim is to create useful instructions to the use of mineral based sorbents (heat treated vermiculite and zeolite) in controlling pulse type nitrogen emissions which are caused by blasting events in quarry sites. This is done by reliable screening of the capabilities of the sorbent materials as nitrogen remover and analyzing the possibility of use the remnant material as fertilizer.

LTU develops a decision – support tool to help choosing the best runoff management practices. The tool is based on nitrogen discharge modelling.

Partners

- Savonia UAS (Finland)
- Geological Survey of Finland (Finland)
- Luleå University of Technology (Sweden)
- Agricultural University of Iceland (Iceland)
- Lough Neagh Partnership (North Ireland)
- Agri-Food and Biosciences Institute (North Ireland)
- Heriot Watt University (Scotland)
- Donegal County Council (Ireland)
- Agricultural Agency (Faroe Islands)

GTK's sub-partners

- Tulikivi Ltd.
- NanoGeo Ltd.

WaterPro is lead by Savonia University of Applied Sciences and funded by EU's Northern Periphery Arctic programme. Total project budget is 2M€ and the project period is 6/2016 – 6/2019

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