

Retour d'expériences

Country

The Netherlands

Title of the operation (name of your water protection operation for water catchment area (s))

Gebiedsdossier Valtherbos/Noordbargeres (drinkwater protection file Valtherbos/Noordbargeres)

A short summary of the operation of drinking water catchment protection (fight against diffuse pollution)

The Drinking Water Protection File (DWPF) identifies necessary measures needed per water abstraction site. The Protection File is part of the Dutch national EU-WFD implementation strategy, intended to improve the protection level of groundwater resources. One of the DWPF is the file for the abstraction in the city of Emmen, named Valtherbos/Noordbargeres. Total abstraction is 11.5 milj. m³/year

Key words

Groundwaterprotection, risk assessment, measures, stakeholderproces

Name of the catchment area(s) and its localisation (city, geographical situation...)

Valtherbos/Noordbargeres parly inside the city of Emmen, province Drenthe

Description of the area where the operation takes place and feature of their territory (forest, urban area, main crops...)

Its a sandy area with short travel times from the surface towards the drinking water wells. Recharge area 10% urban, 25% forest, 65% Agricultural use (mainly arable: potatoes, sugarbeets, cereals)

Number of farmers present in the water catchment area

20-30

Problems encountered (main water pollutants and original aims)

Pesticides, nitrates, heavy metals from agricultural land use. Chlorinated Hydrocarbons from industry and urban area.



Water quality monitoring	Drinking water wells and survey wells of the drinking water company. Provinciale and national Waterframe Work Directive monitoring network. Monitoring wells to investigate and follow the ground water plumes of pollution. Study started to a shallow early warning monitoring network, to be placed before 2020.
Population served by this catchment for drinking water	175.000 inhabitants
Operation: is it voluntary/compulsory (related to regulation)	Drinkingwater protection files are setup within the current legislation. The most measures following the risk assessment are voluntary. Many prevention measures are compulsory and based on provincial regulations and national regulations.
Background/ history of the operation	In 2010 a national agreement was made to implement Drinking Water Protection Files. Reason for this step was the implementation of the WFD where lowering of the purification effort should be realized.

STAKEHOLDERS INVOLVED (Organisations' name and department)

Technical partners	Royal Haskoning, Watercompany, municipality Emmen
Financial partners	Province Drenthe, Drinkingwater company
Project leader	Province Drenthe
Other stakeholders	Farmers, Agricultural organisation, Nature conservation organisations, waterboard
Description of concrete actions (with the dates of the accomplishment)	2011: Drinking Water Protection File 2014: Program of measures 2015: Start Agricultural project 2016: Collection of old and used pesticides For more information see attached paper
Funding	Province Drenthe Watercompanies



Mains results (outcomes): Examples:
number of farmers engaged,
enhancement of water quality...

5 farmers engaged, 1 municipality.

Obstacles and difficulties

Most measures are voluntarily. Budgets are limited. Additional compulsory measures for farmers are not allowed (national parlement)

Lessons and perspectives

The Protection File process improves the acceptance of the risks and ensures that measures are better geared to the actual abstraction site risks, resulting in more societal support implementing them; The Protection File with cyclic evaluation is a major improvement of the protection level of drinking water abstractions; However, the effectiveness of this process in meeting the EU-WFD objectives has yet to be proven in practice for now.

Website

<https://www.provincie.drenthe.nl/onderwerpen/natuur-milieu/water/drinkwater/>

