

THE AALBORG STUDY SITE

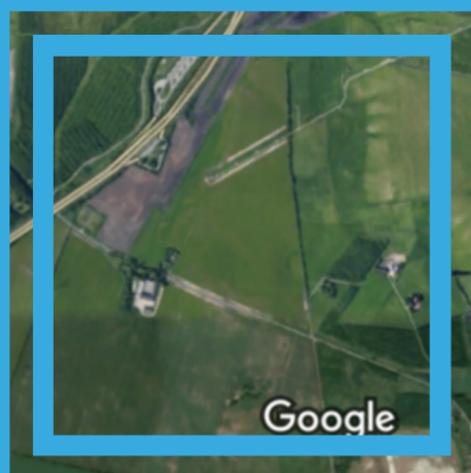


How Protection Zones and Different Mitigation Measures Restore Contaminated Groundwater in the Kongshøj Area in Aalborg, DK

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LARGE WATERWORKS SOUTH OF AALBORG

778 ha
3 mill. cubic m per yr
14 abstraction wells
Land use: agriculture and forest

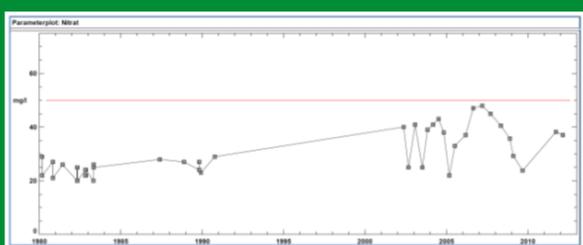


STRICTER DEMANDS CLOSER TO THE ABSTRACTION WELL

	Inner zone	Middle zone	Outer zone
Nitrate	Max 25 mg/l	Avg. 25 mg/l	Avg. 50 mg/l
Pesticides	Prohibited	Prohibited	Limited use

GEOLOGY

Unconfined chalk aquifer
Only partly protected by clay layers



GROUNDWATER QUALITY

Nitrate concentrations close to 50 mg/l
Findings of BAM and atrazine above 0.1 µg/l

Monitoring program: Annual modelling of nitrate leaching (2010: 66 mg/l)
Frequent groundwater analyses

ACTION PLANS SINCE 2004

General regulation
Set-aside or reduced use of N fertilization
Afforestation
Campaign on correct use of herbicides



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