

### FLANDERS ENVIRONMENT AGENCY

BE 1+2 extension



TOPSOIL Partnermeeting Dieter Vandevelde 18/11/2020



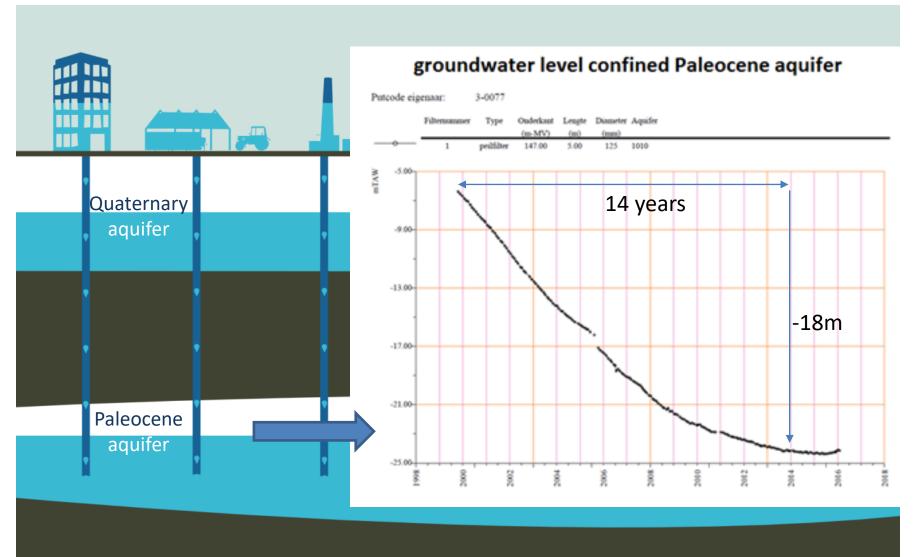


# Airborne EM (SkyTEM)



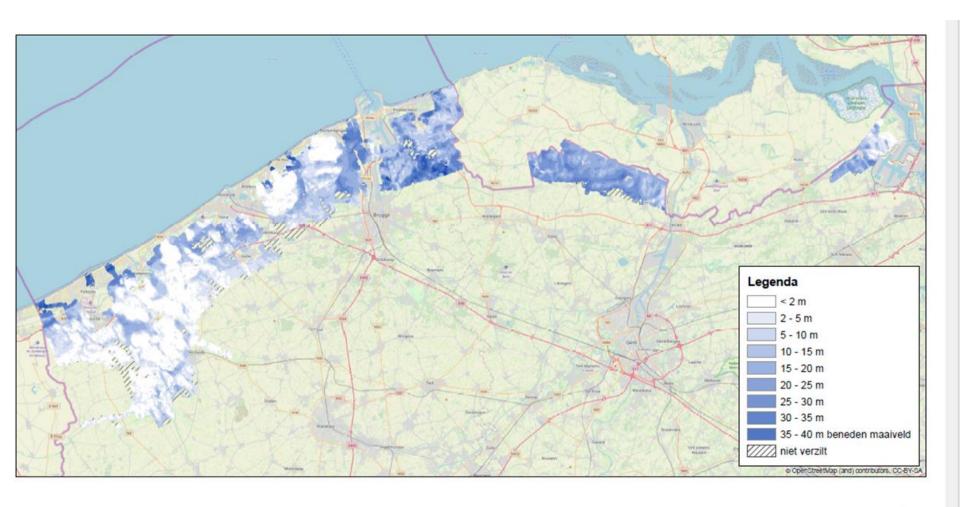


# Overexploited aquifer





### Salinity map













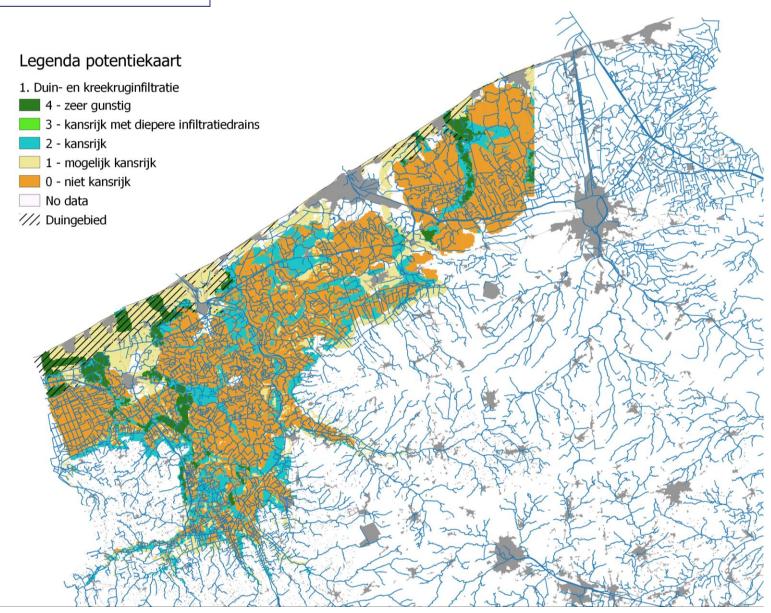






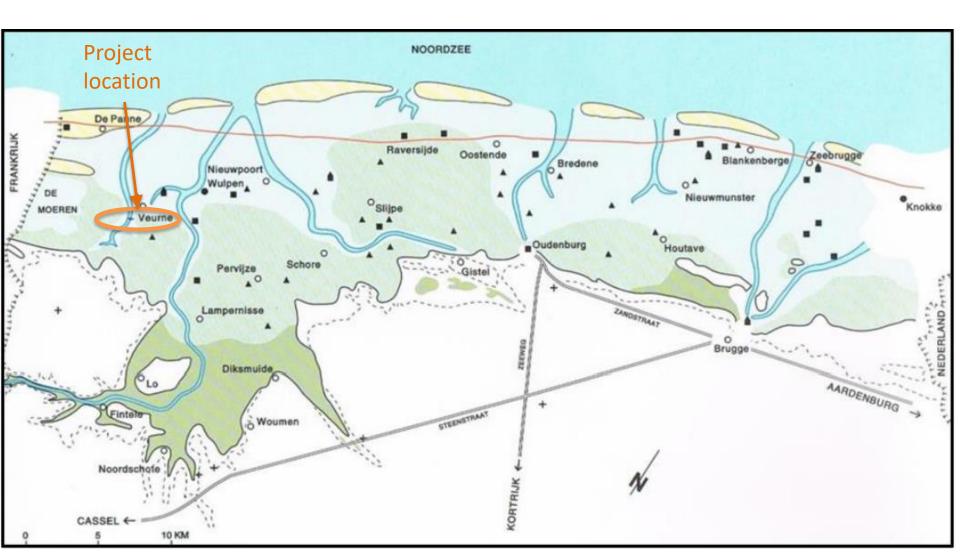


### Opportunity map



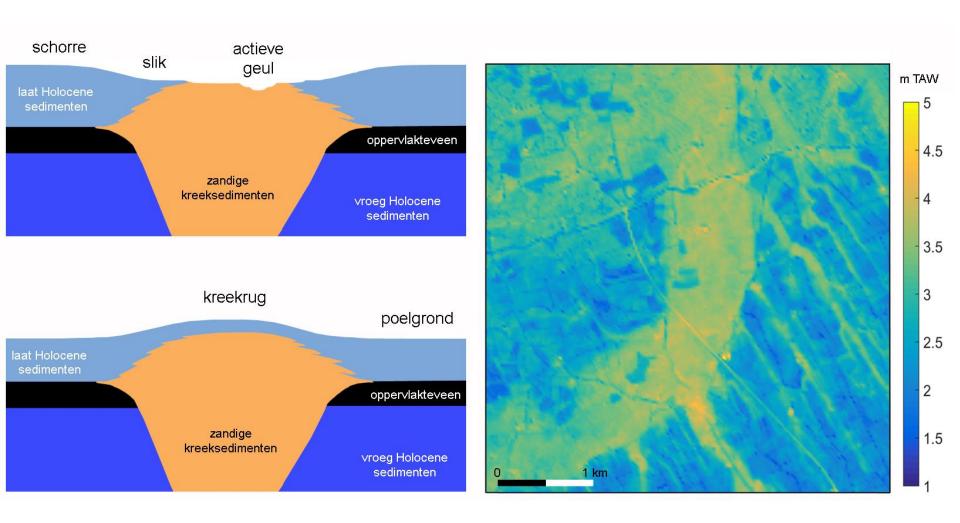


### Tidal gullies (Roman period)



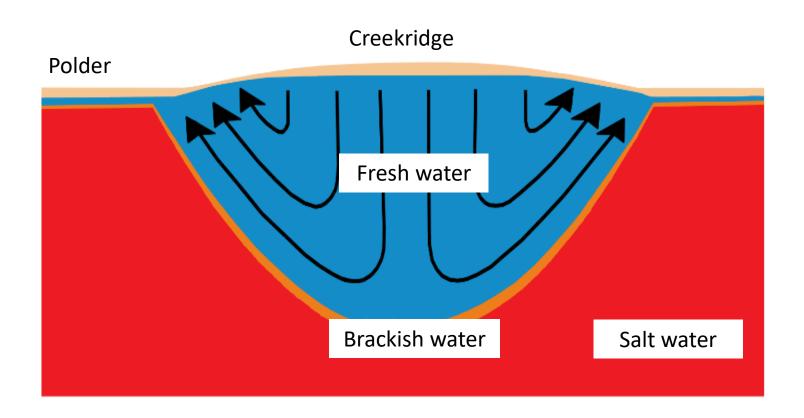


### Creekridge



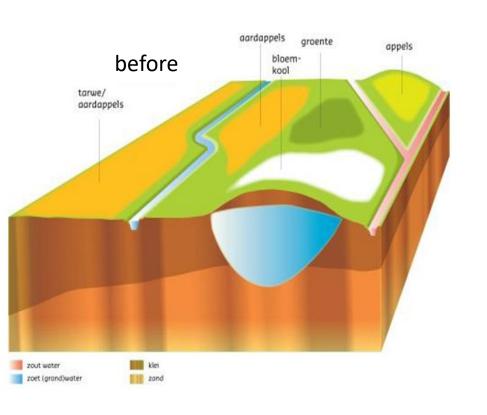


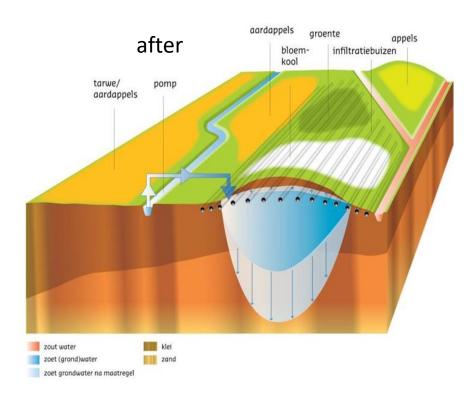
### Creekridge





# Creekridge infiltraton





Source: Deltares



Dichtstbijzijnde adres: Crocodillewedstraat 3, 8630 Veurne

93504 o.A4

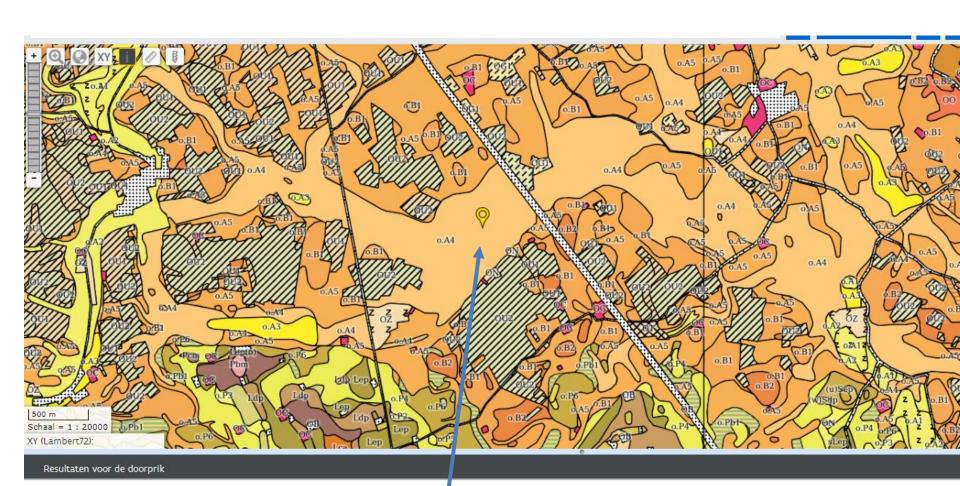
Id kaartvlak

Digitale bodemkaart van het Vlaams Gewest: bodemtypes:

**IEdp** 

Unibodemtype

#### Selected parcel



Beknopte omschrijving bodemserie

Kreekruggronden (Oudlandpoviers)

Source: dov.vlaanderen.be

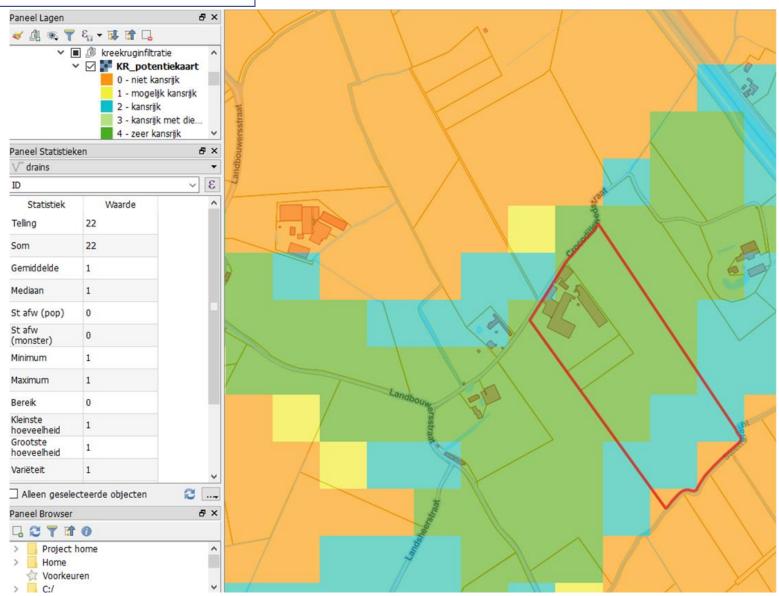
XY (Lambert72) = 32198 193536 / GPS (Lat/Long) = 51,0400 2,6890 / Z (DH 1 II) = 3,88 m TAW

Bodemserie

o.A4

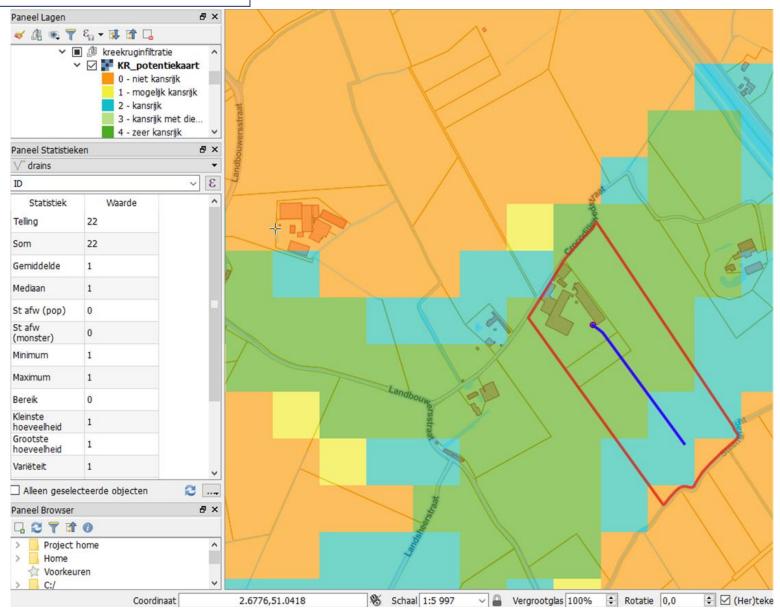


### Selected parcel



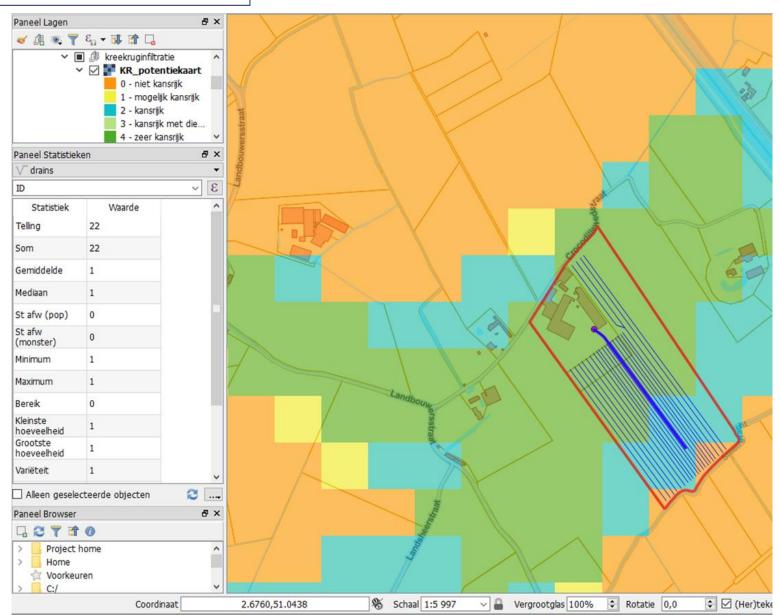


### Selected parcel





### Selected parcel





# Cooperation agreement





### **Tendering**







### Piezometer network



- License application
- Design
- Baseline conditions
- Groundwater modelling
- Monitoring

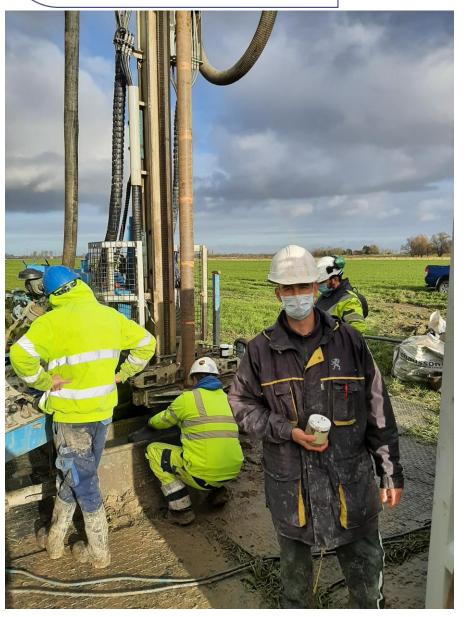


### Drilling





### Sample collection







## Geophysical borehole measurements





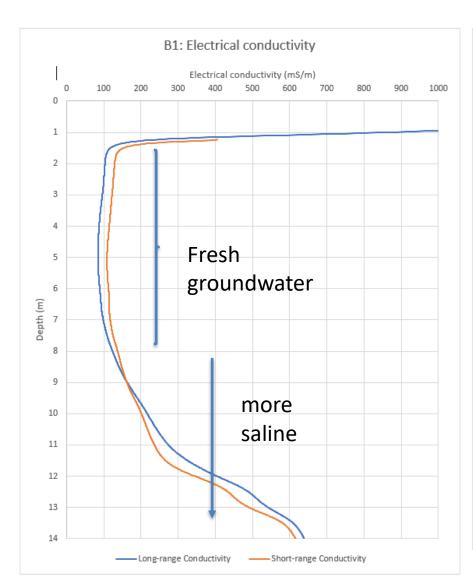
# Geophysical borehole measurements

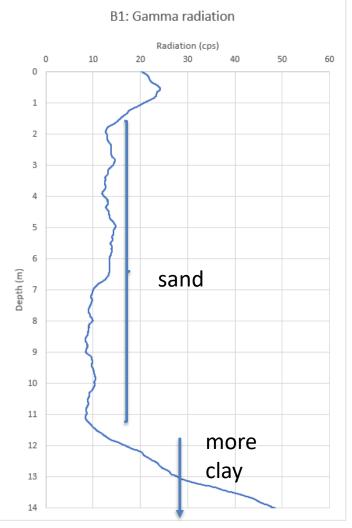






### Geophysical borehole measurements







#### Planning

- ▶ December January
  - → Monitoring groundwater and surface water
  - → Groundwater model and hydrogeological study
  - → Final design of the infiltration system
  - → Preparation of the license application
- ▶ March August 2021
  - → License application
- September October 2021
  - → Construction of the infiltration system
- November December 2021
  - → Start of infiltration
  - → Monitoring and optimalisation



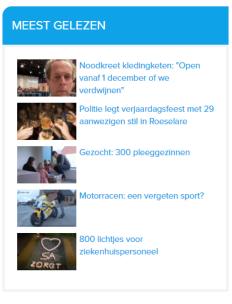


#### Press



#### KREEKRUGINFILTRATIE ZORGT VOOR EXTRA ZOETWATERVOORRAAD









#### Thank you



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