

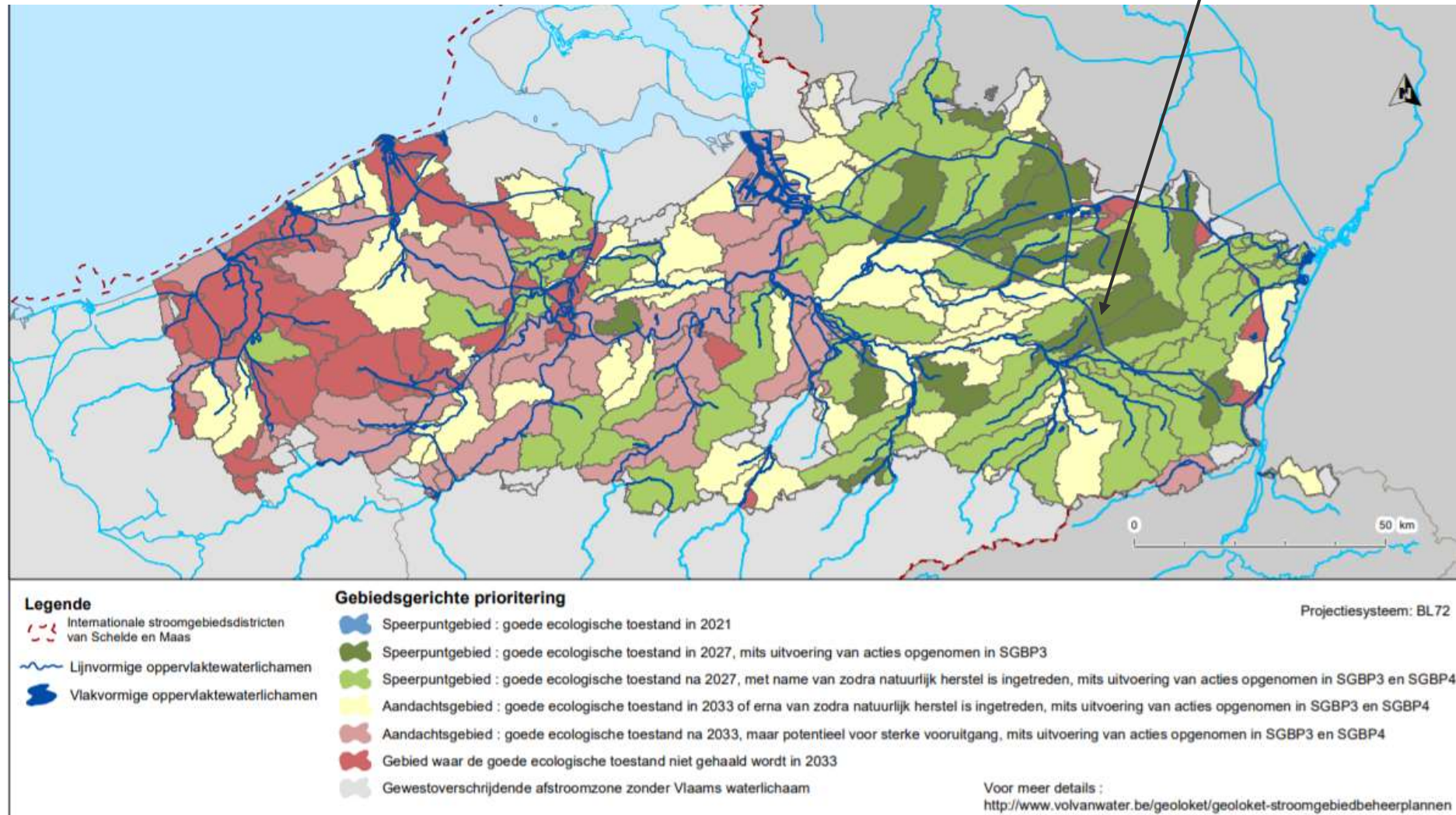


Vlaanderen
is milieu

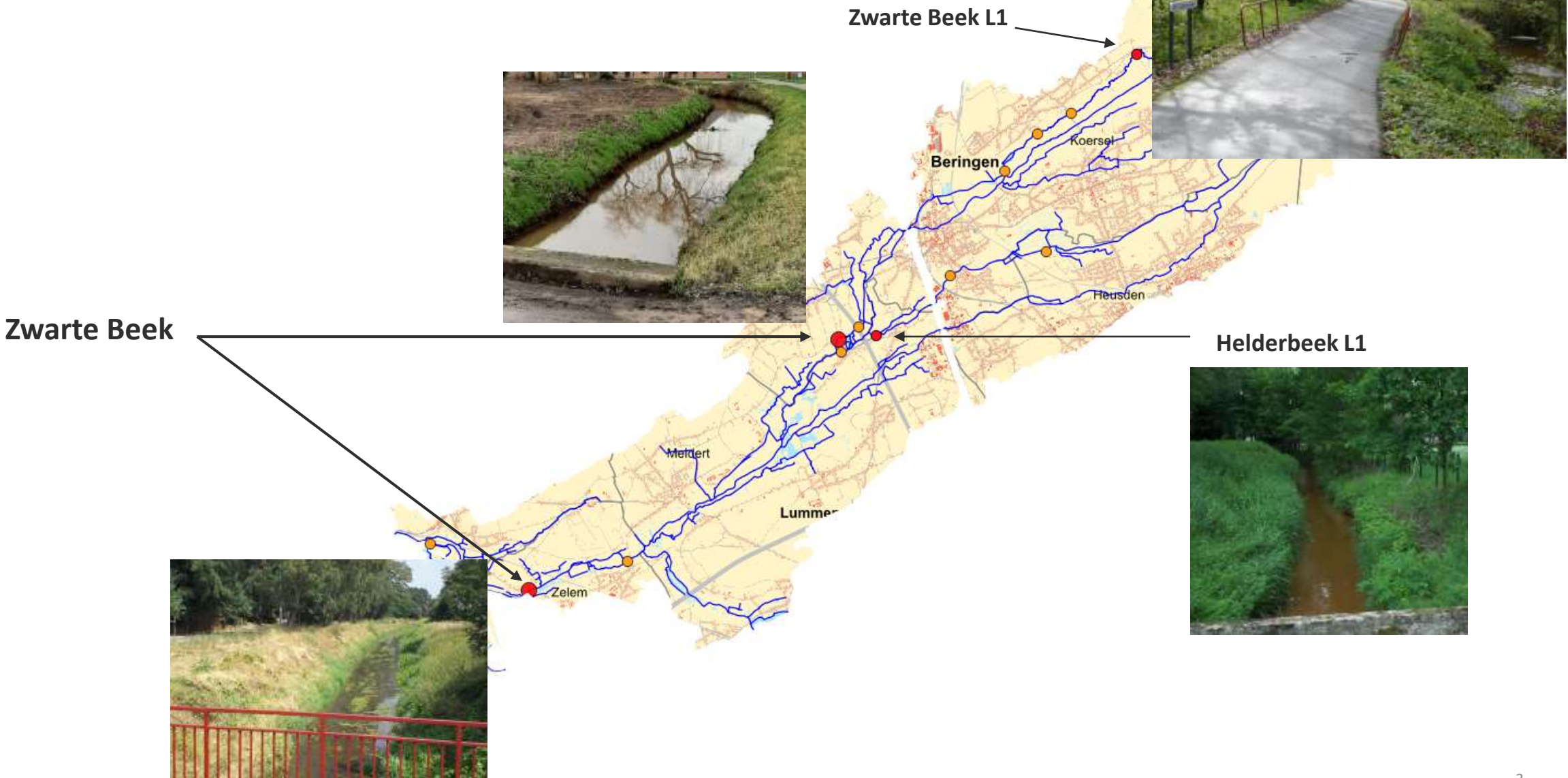
De waterkwaliteit van de Zwarte Beek

Maarten De Jonge - VMM
10de Demerdag, 11 september 2023

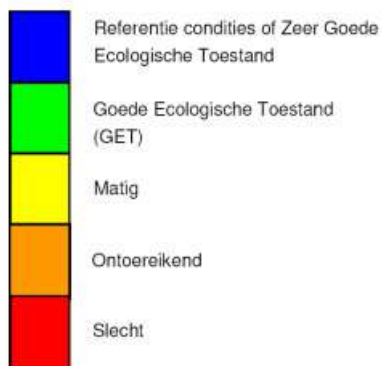
Situering



Monitoring KRW



Biologische monitoring KRW

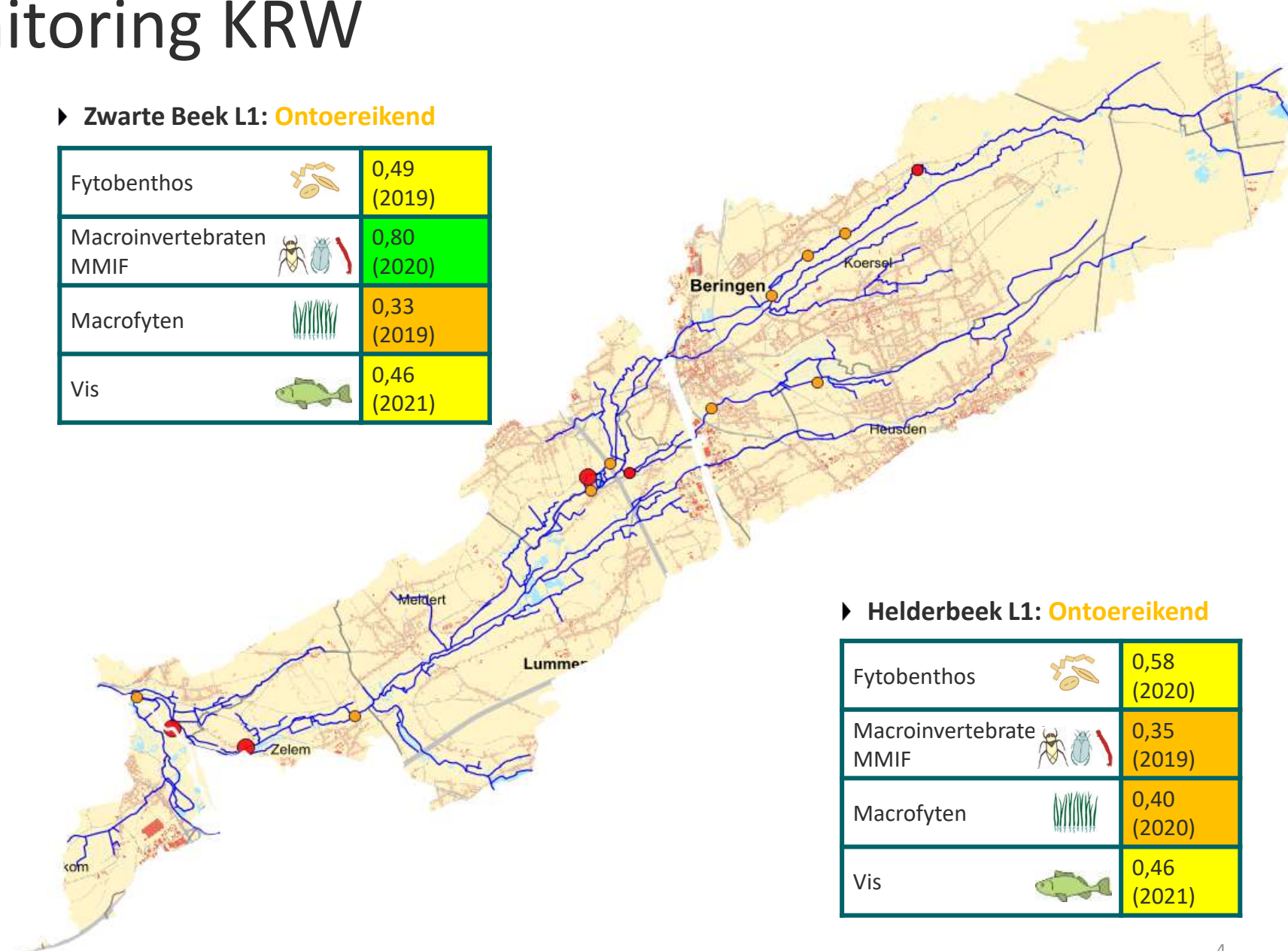


► Zwarte Beek L1: **Ontoereikend**

Fytobenthos		0,49 (2019)
Macroinvertebraten MMIF		0,80 (2020)
Macrofyten		0,33 (2019)
Vis		0,46 (2021)

► Zwarte Beek: **Matig**

Fytobenthos		0,63 (2020)
Macroinvertebraten MMIF		0,55 (2020)
Macrofyten		0,53 (2020)
Vis		0,65 (2019)

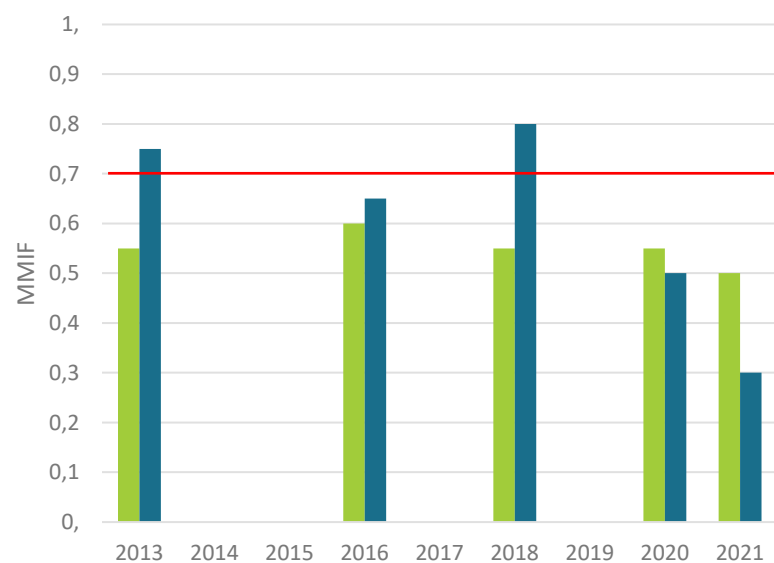
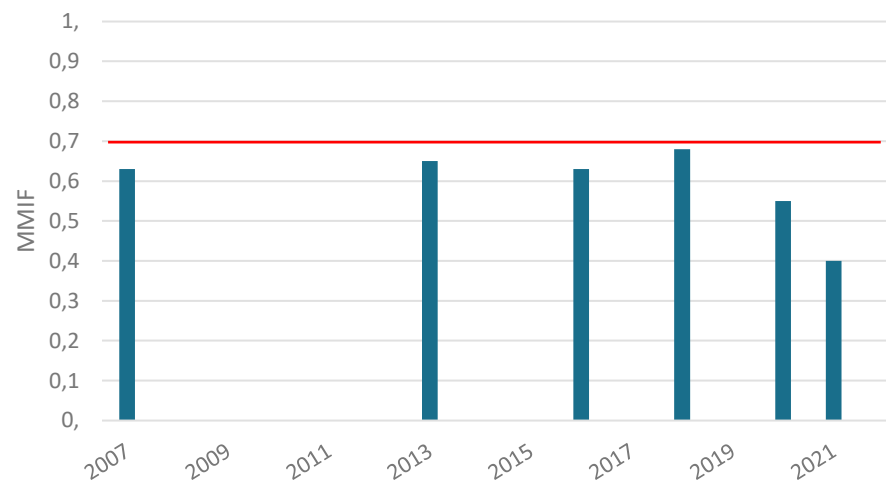


► Helderbeek L1: **Ontoereikend**

Fytobenthos		0,58 (2020)
Macroinvertebraten MMIF		0,35 (2019)
Macrofyten		0,40 (2020)
Vis		0,46 (2021)

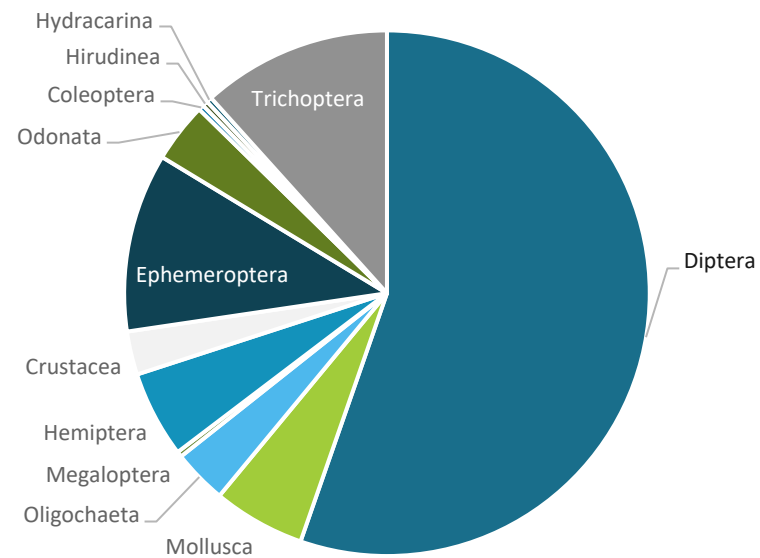
Macro-invertebraten

Evolutie EKC Macro-invertebraten Zwarte Beek

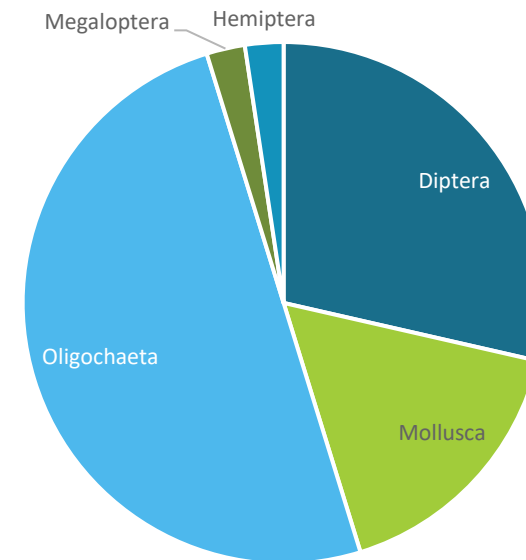


Macro-invertebraten

Verdeling taxa 2018



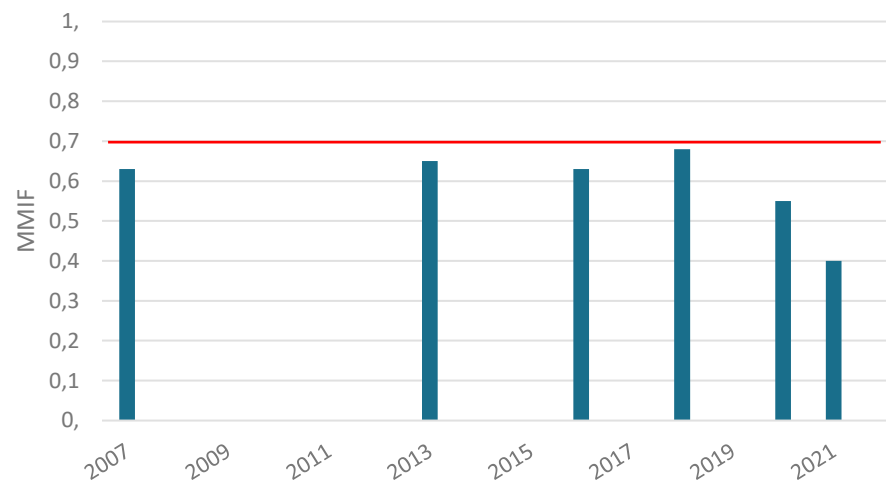
Verdeling taxa 2021



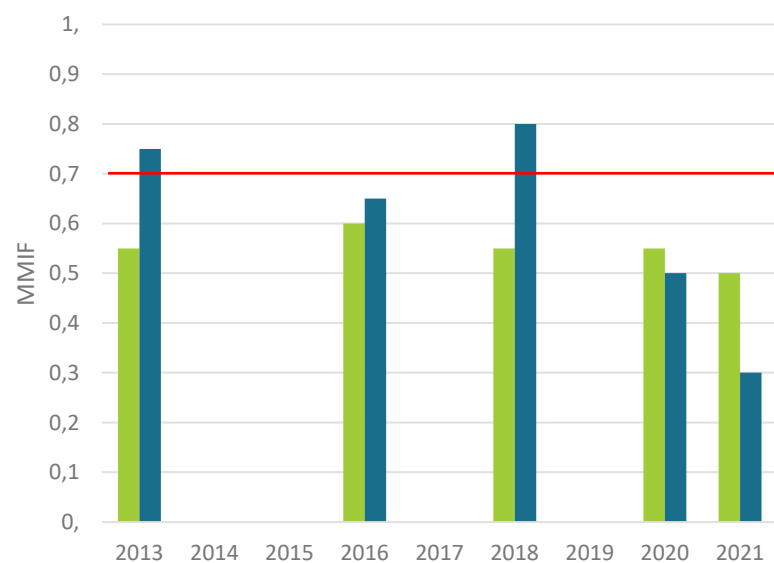
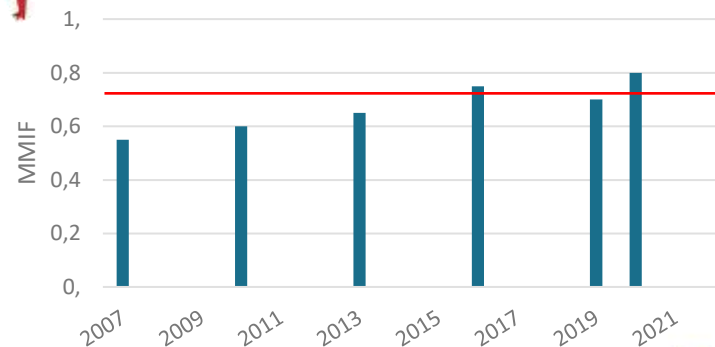
Macro-invertebraten



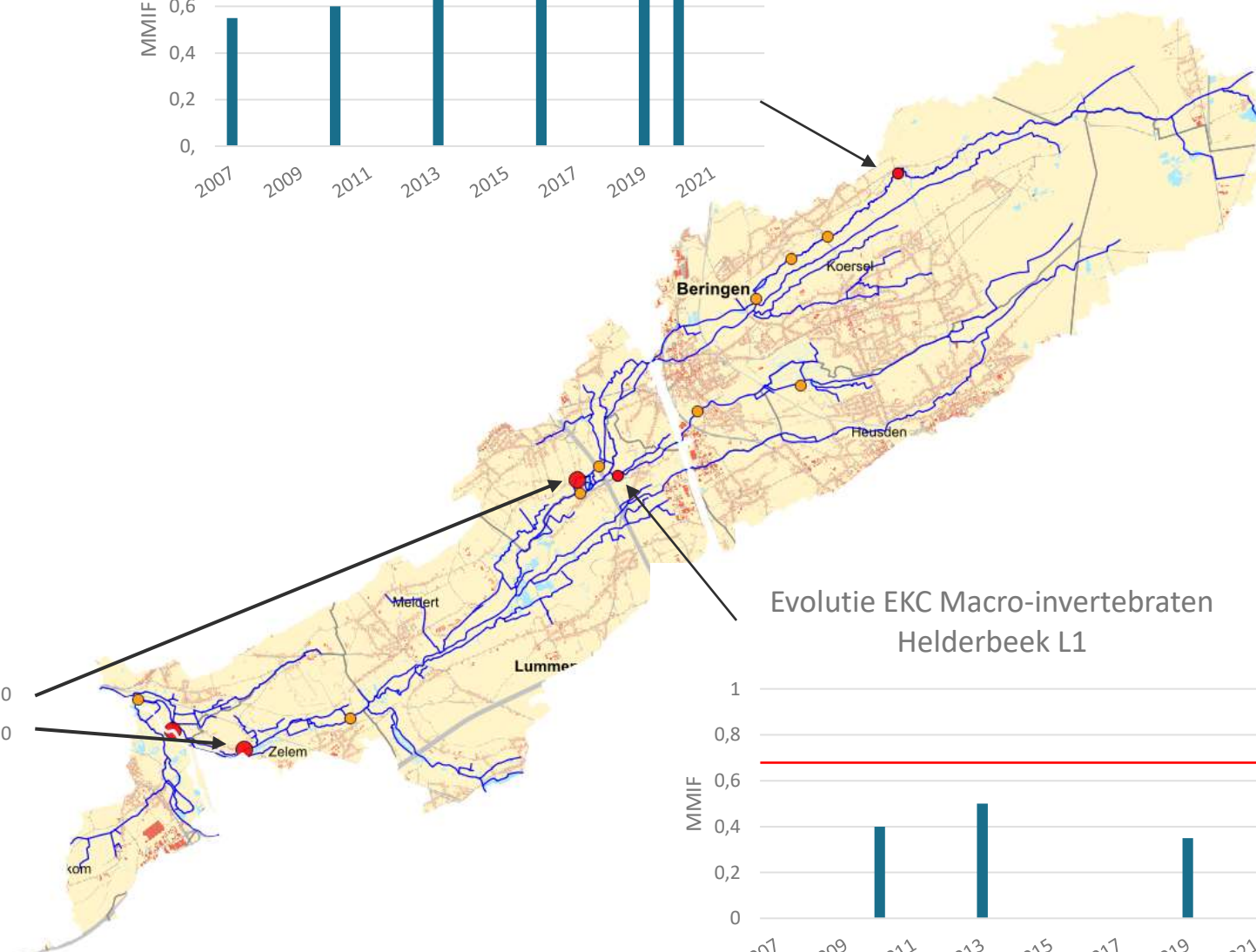
Evolutie EKC Macro-invertebraten Zwarte Beek



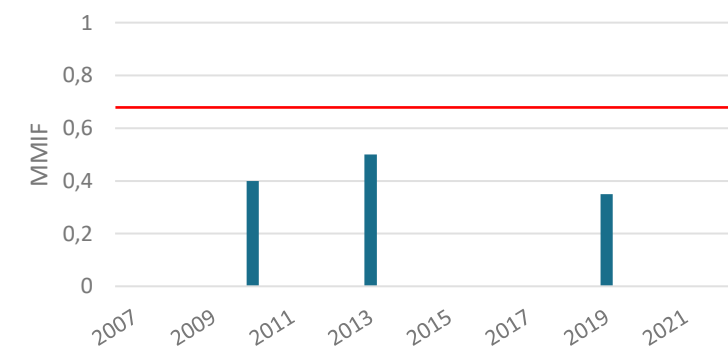
Evolutie EKC Macro-invertebraten
Zwarte Beek L1



419600
418200



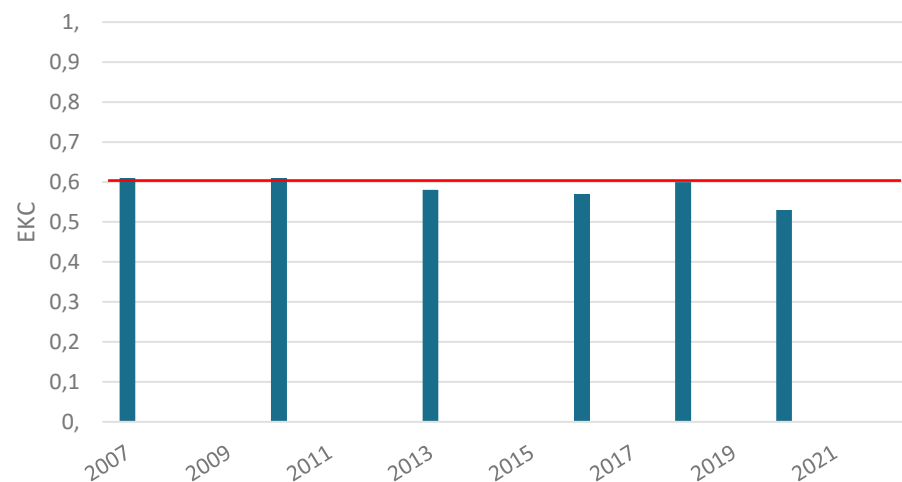
Evolutie EKC Macro-invertebraten
Helderbeek L1



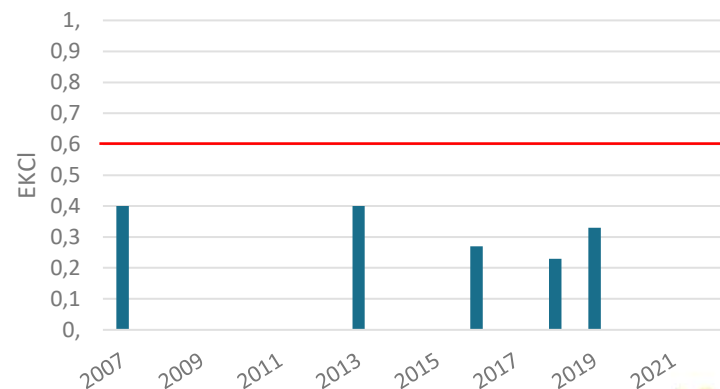
Macrofyten



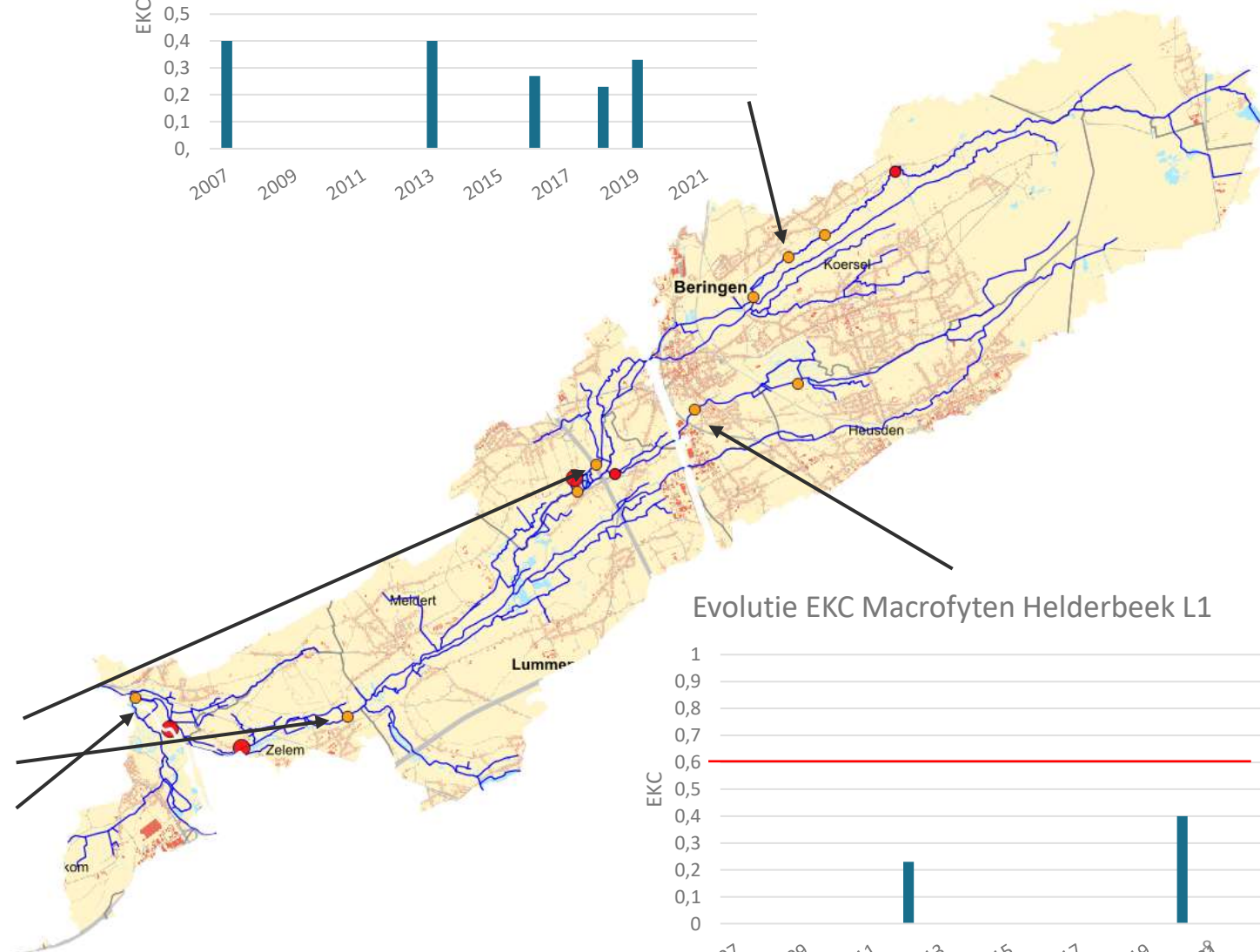
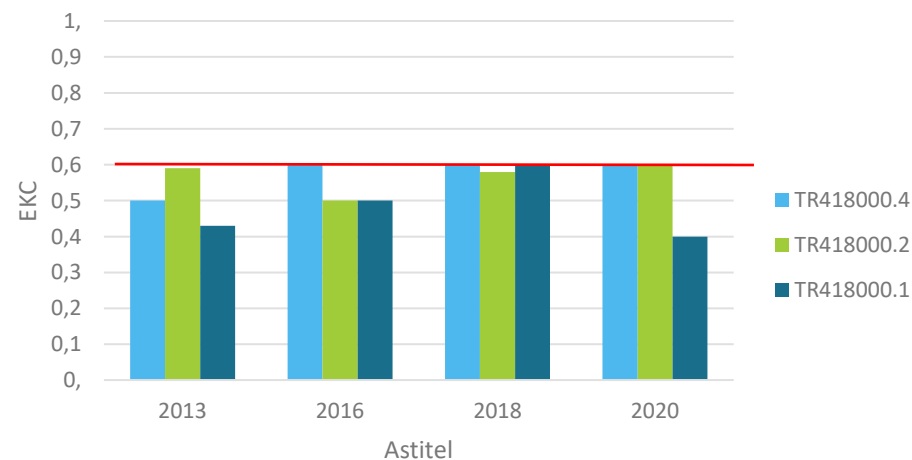
Evolutie EKC Macrofyten Zwarte Beek



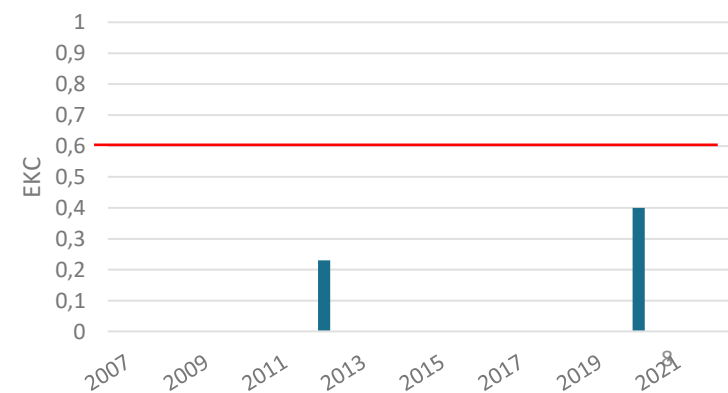
Evolutie EKC Macrofyten Zwarte Beek L1



Evolutie per traject



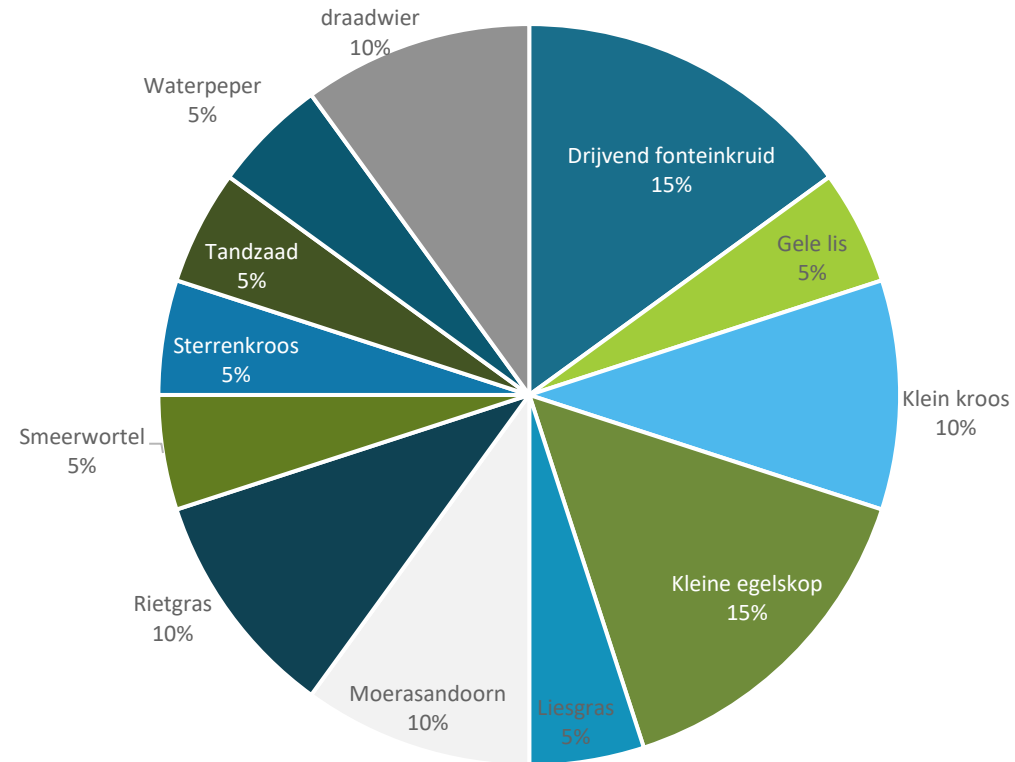
Evolutie EKC Macrofyten Helderbeek L1



Macrofyten



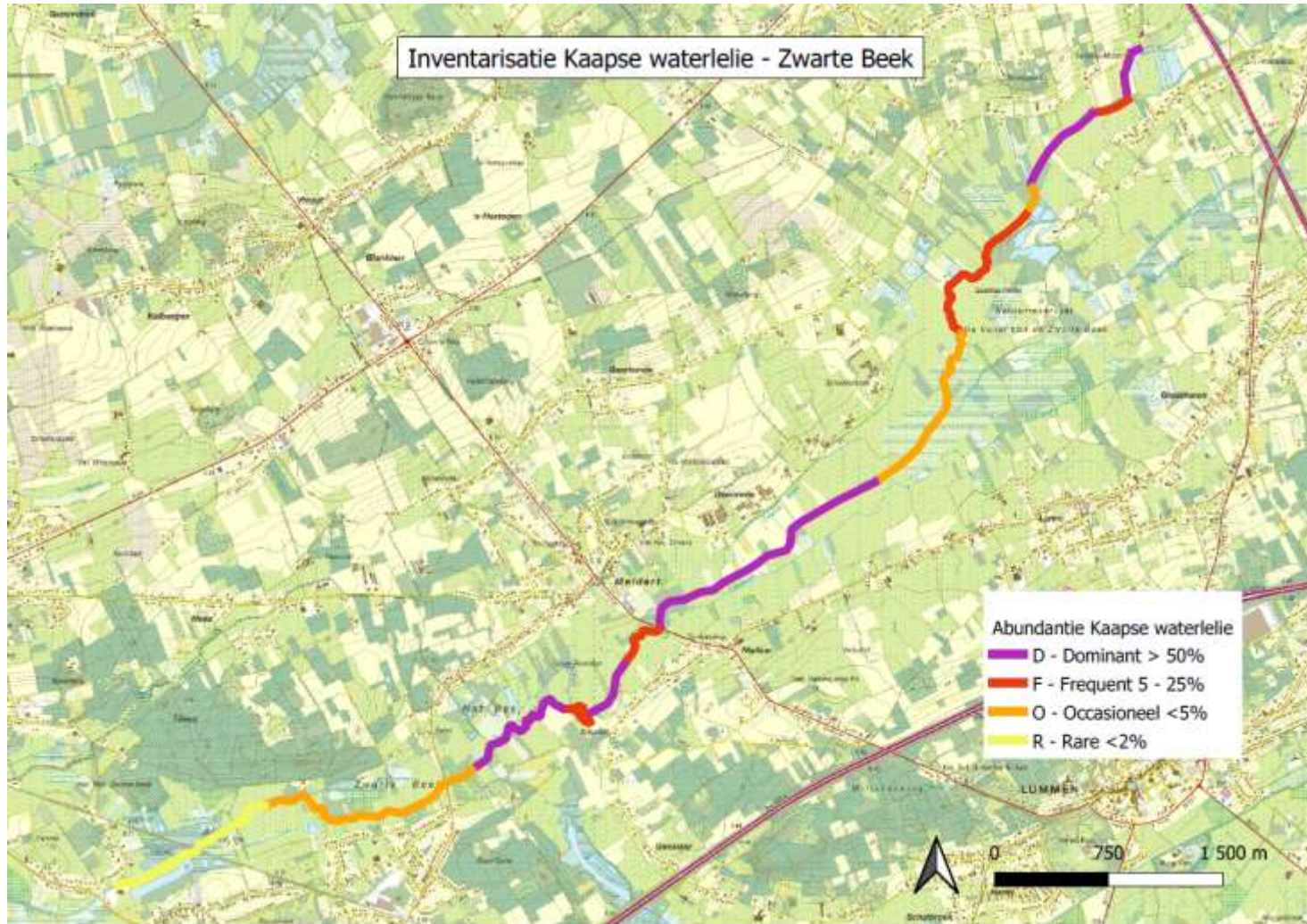
Soortensamenstelling waterplanten Zwarte Beek 2020



Kleine egelskop

© FLORON

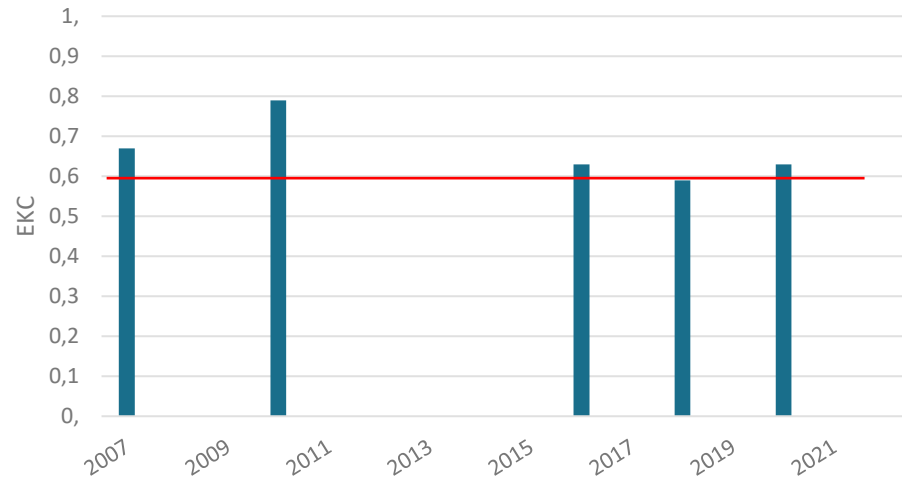
Macrofyten



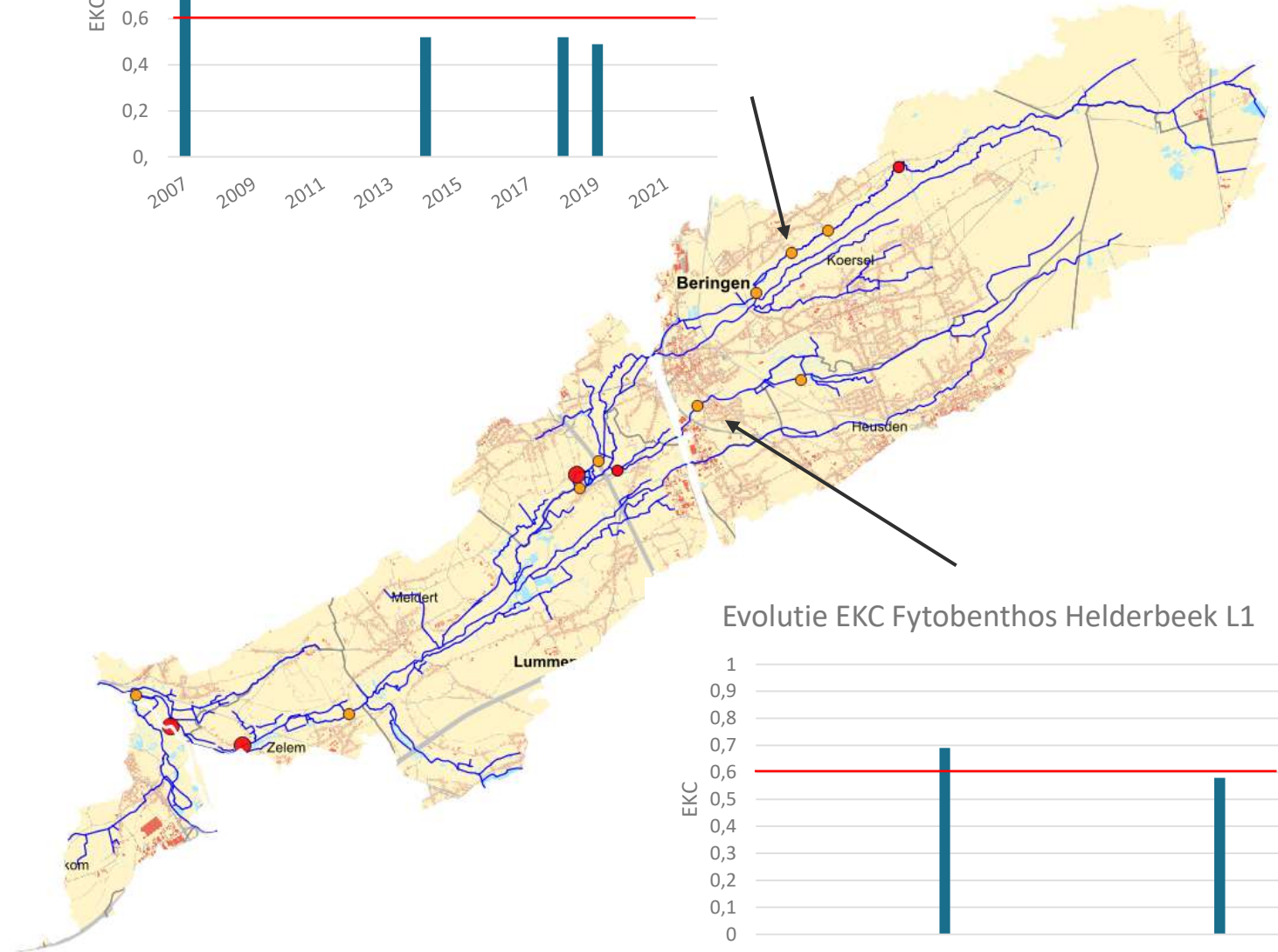
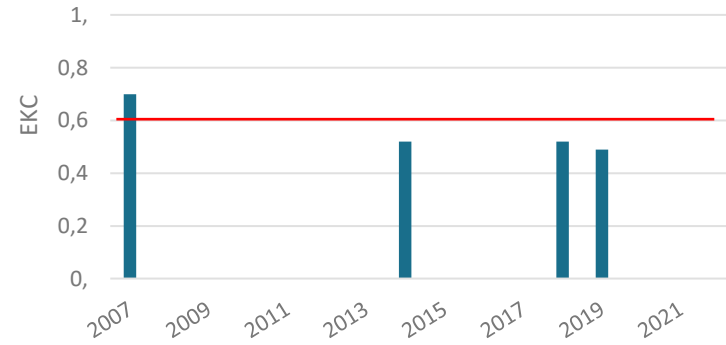
Fytobenthos



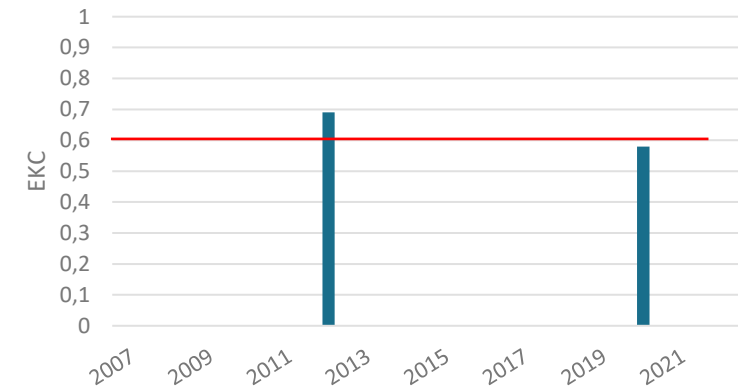
Evolutie EKC Fytobenthos Zwarte Beek



Evolutie EKC Fytobenthos Zwarte Beek
L1



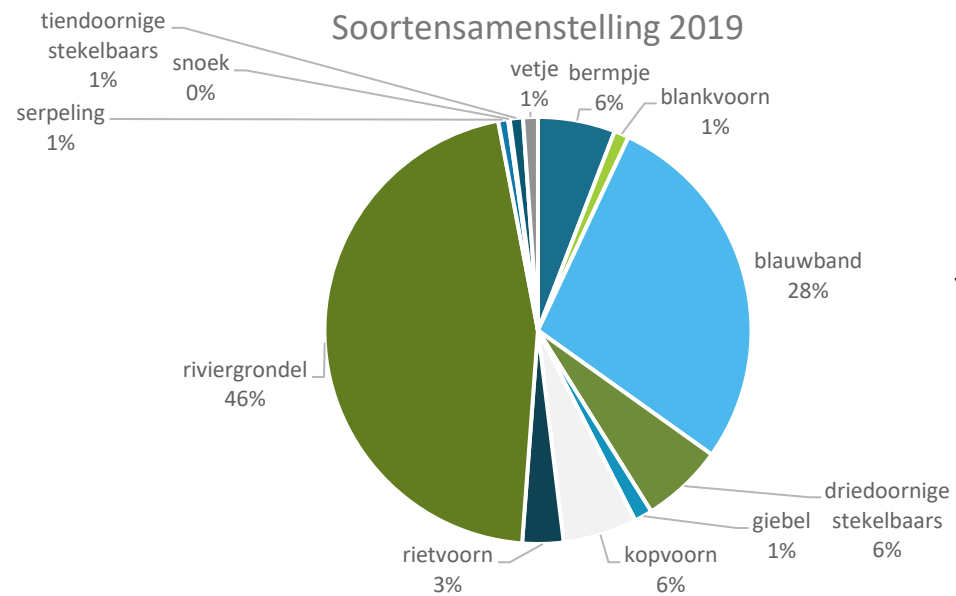
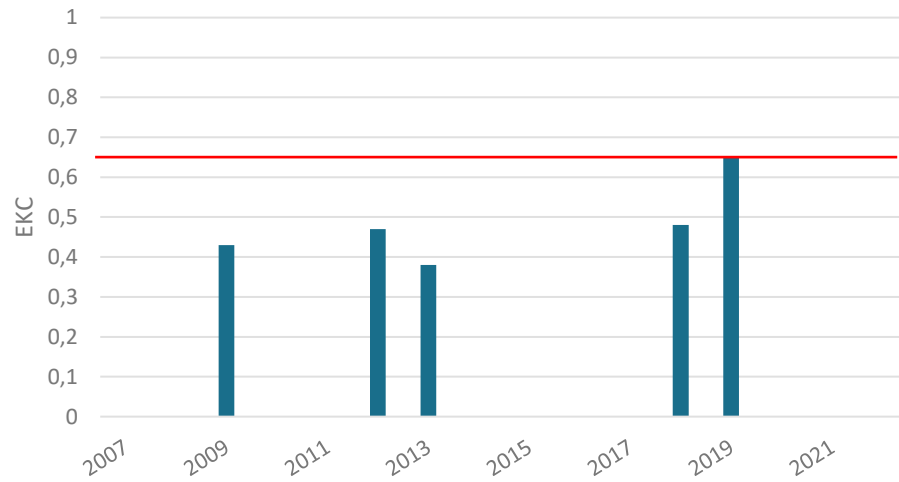
Evolutie EKC Fytobenthos Helderbeek L1



Vis



Evolutie EKC Vis Zwarte Beek

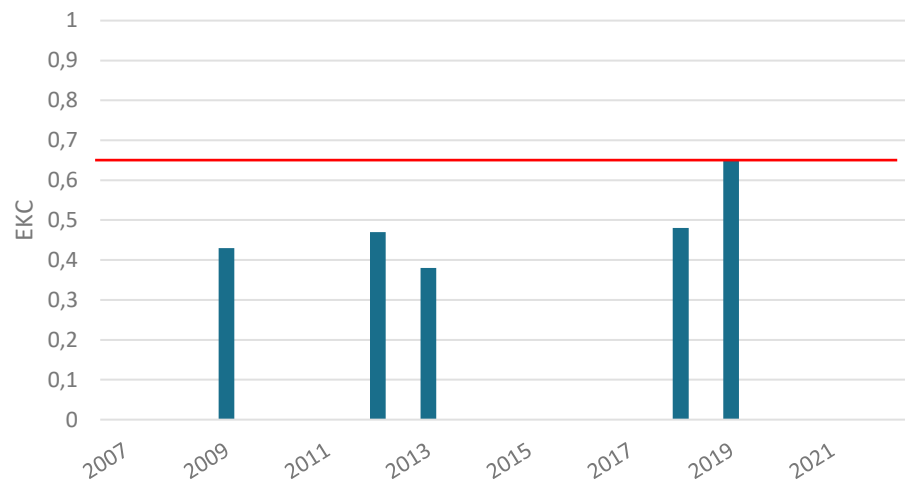


Vis

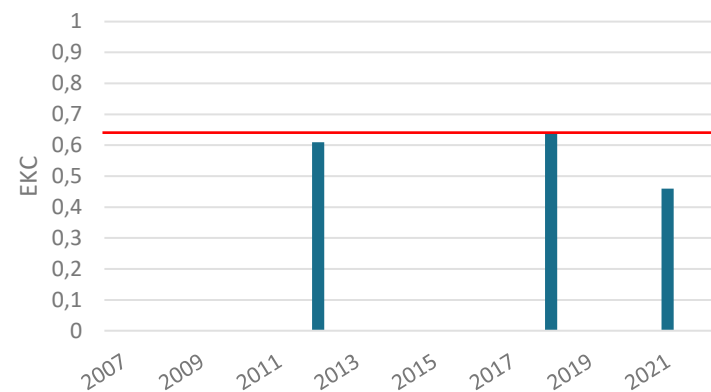


INSTITUUT NATUUR- EN BOSONDERZOEK

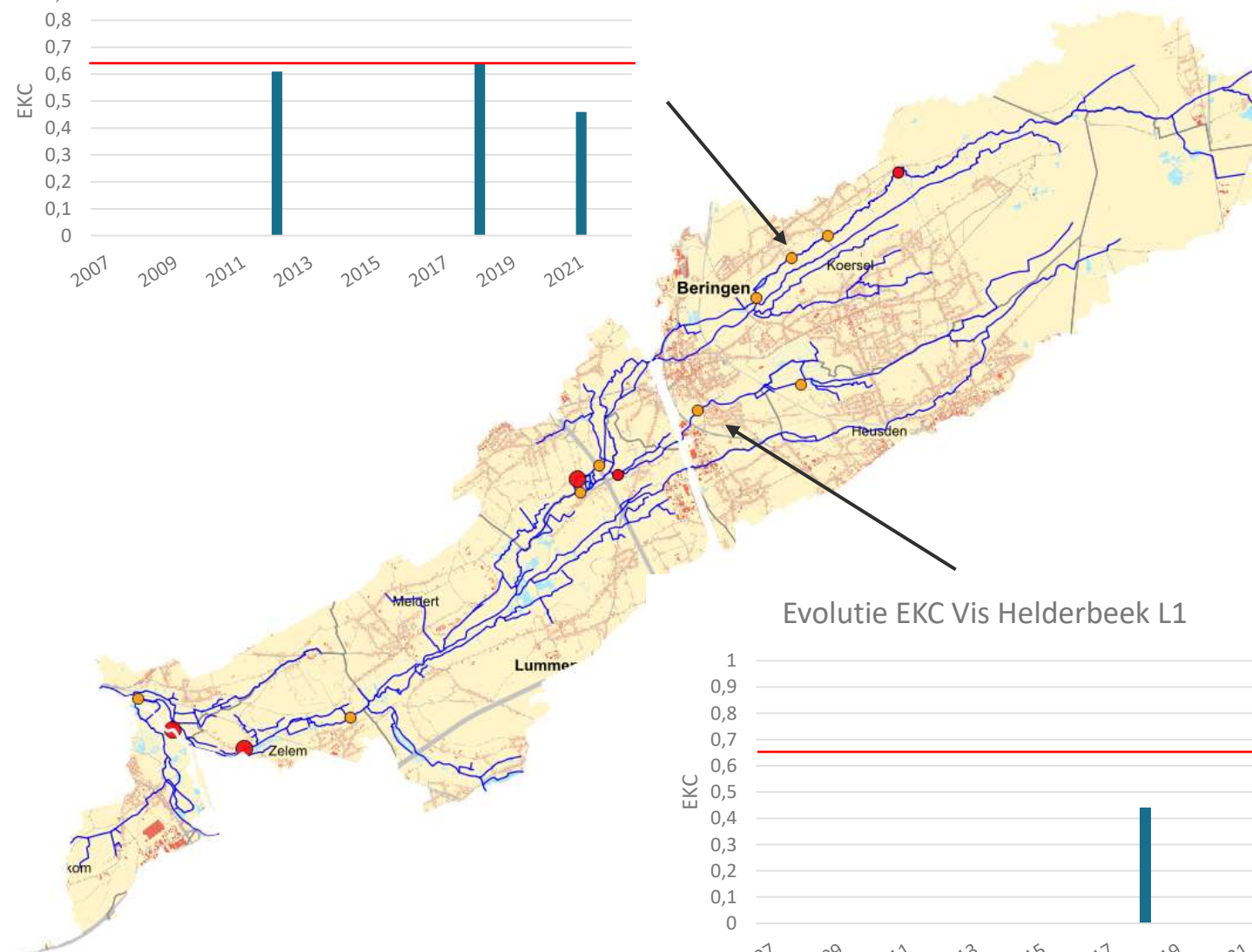
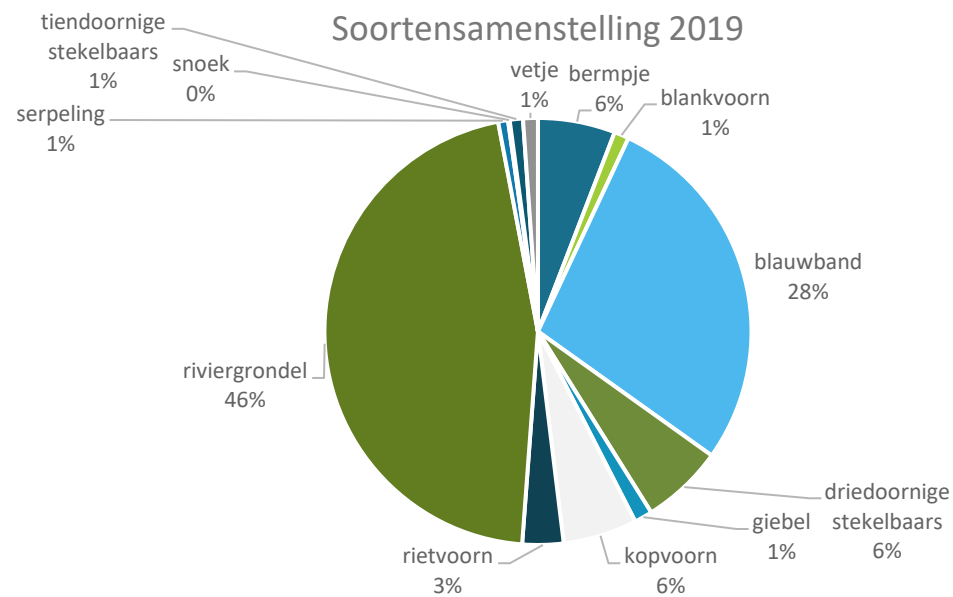
Evolutie EKC Vis Zwarte Beek



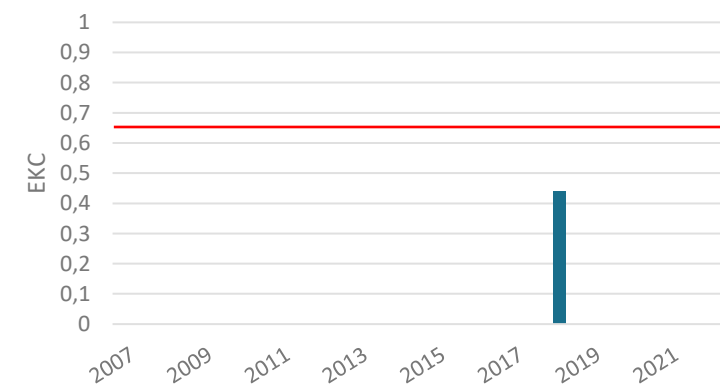
Evolutie EKC Vis Zwarte Beek L1



Soortensamenstelling 2019



Evolutie EKC Vis Helderbeek L1



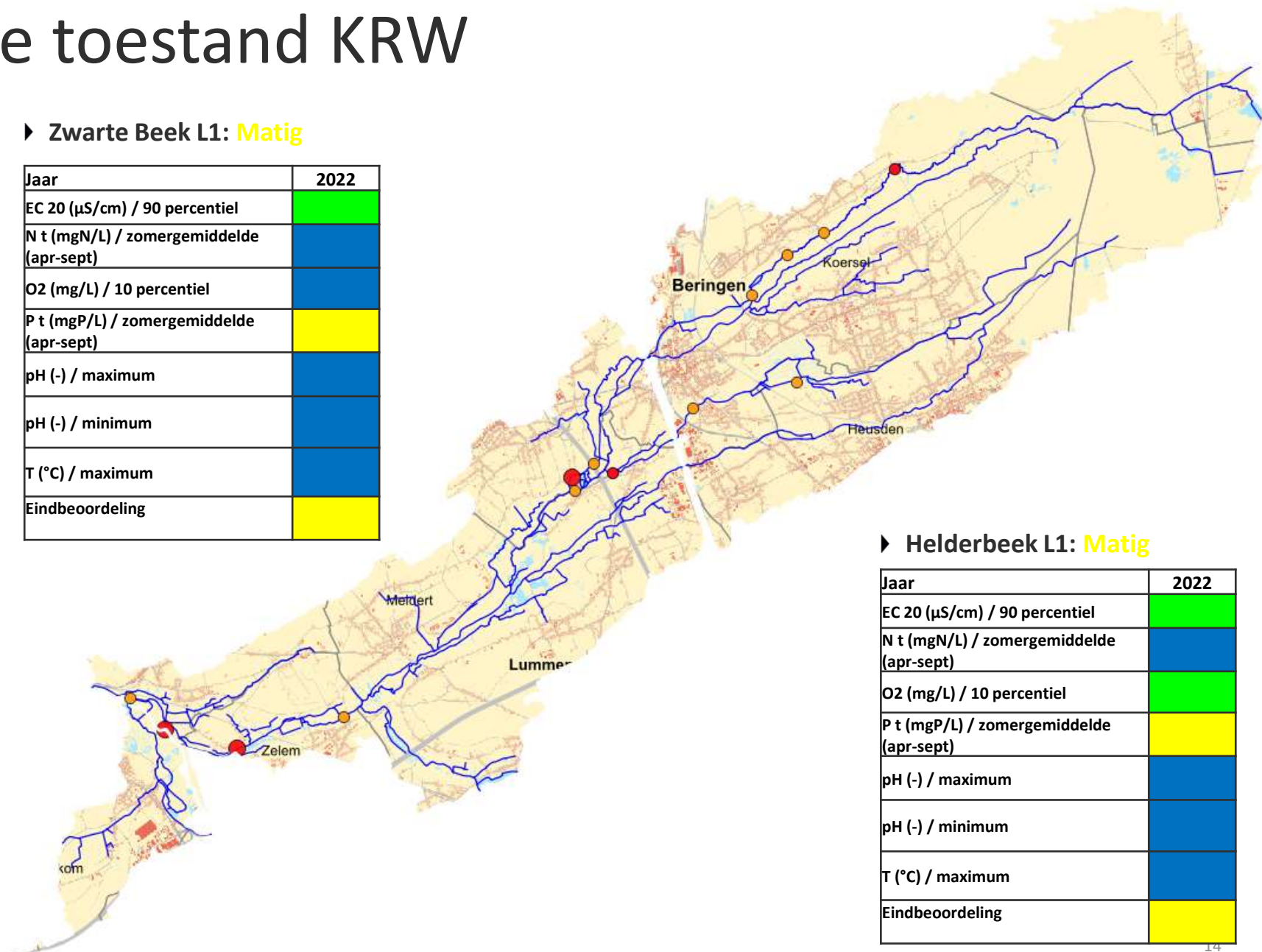
Fysicochemische toestand KRW

► Zwarte Beek: Matig

Jaar	2022
EC 20 ($\mu\text{S}/\text{cm}$) / 90 percentiel	
N t (mgN/L) / zomergemiddelde (apr-sept)	
O2 (mg/L) / 10 percentiel	
P t (mgP/L) / zomergemiddelde (apr-sept)	
pH (-) / maximum	
pH (-) / minimum	
T ($^{\circ}\text{C}$) / maximum	
Eindbeoordeling	

► Zwarte Beek L1: Matig

Jaar	2022
EC 20 ($\mu\text{S}/\text{cm}$) / 90 percentiel	
N t (mgN/L) / zomergemiddelde (apr-sept)	
O2 (mg/L) / 10 percentiel	
P t (mgP/L) / zomergemiddelde (apr-sept)	
pH (-) / maximum	
pH (-) / minimum	
T ($^{\circ}\text{C}$) / maximum	
Eindbeoordeling	

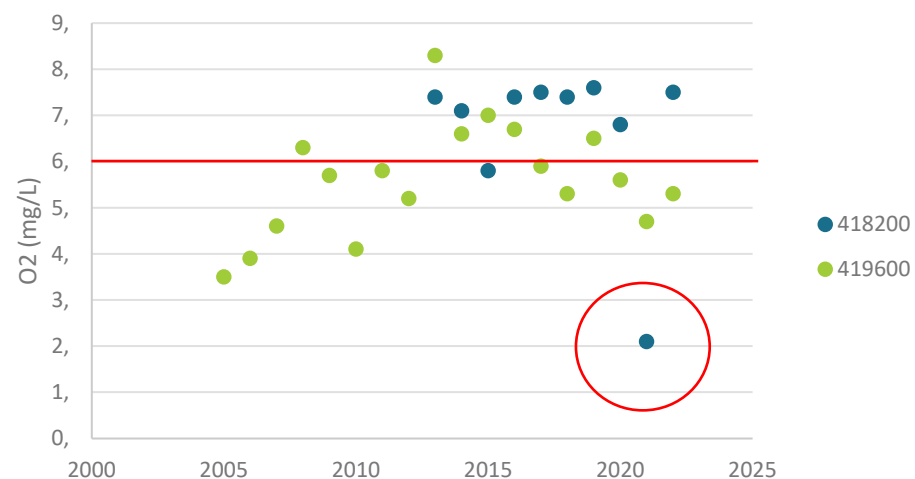


► Helderbeek L1: Matig

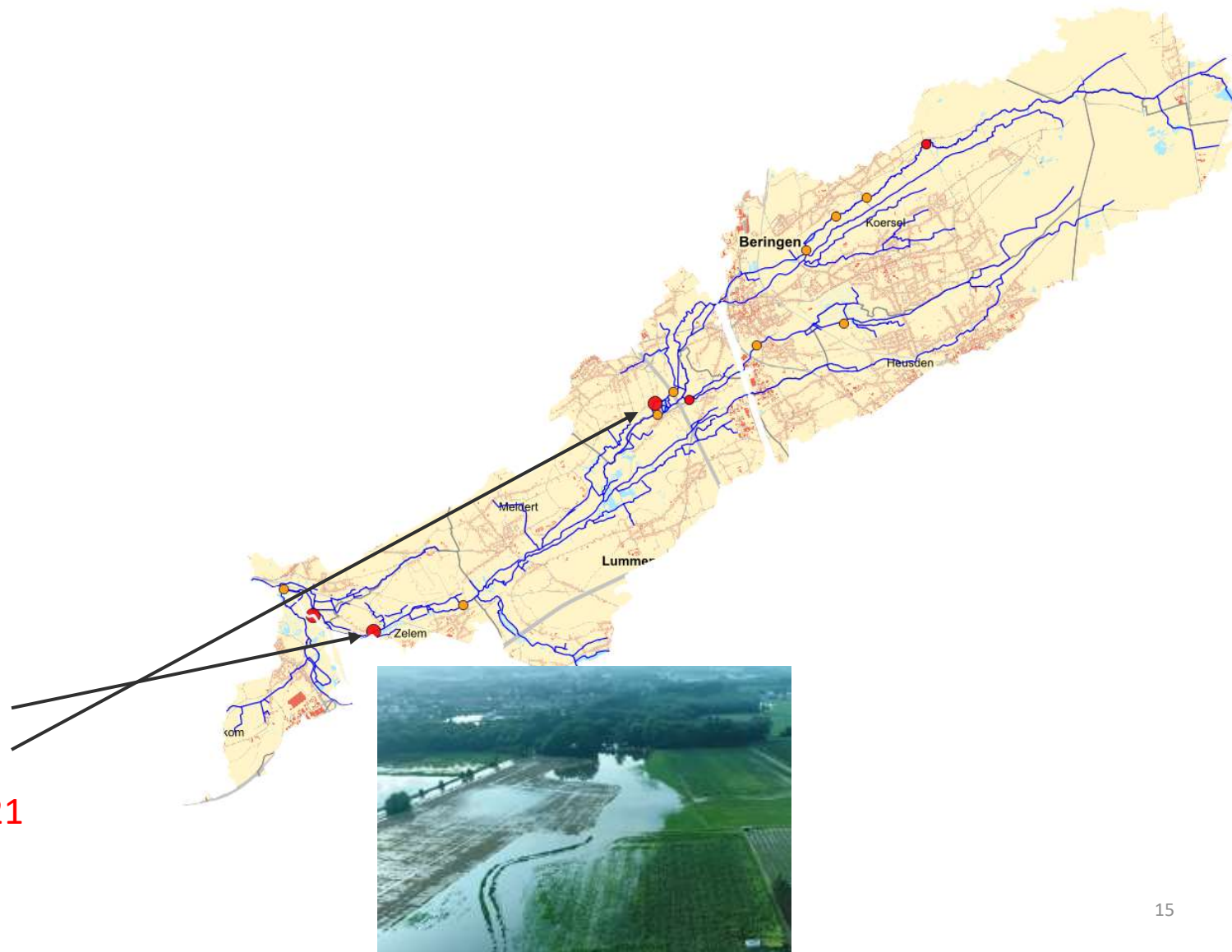
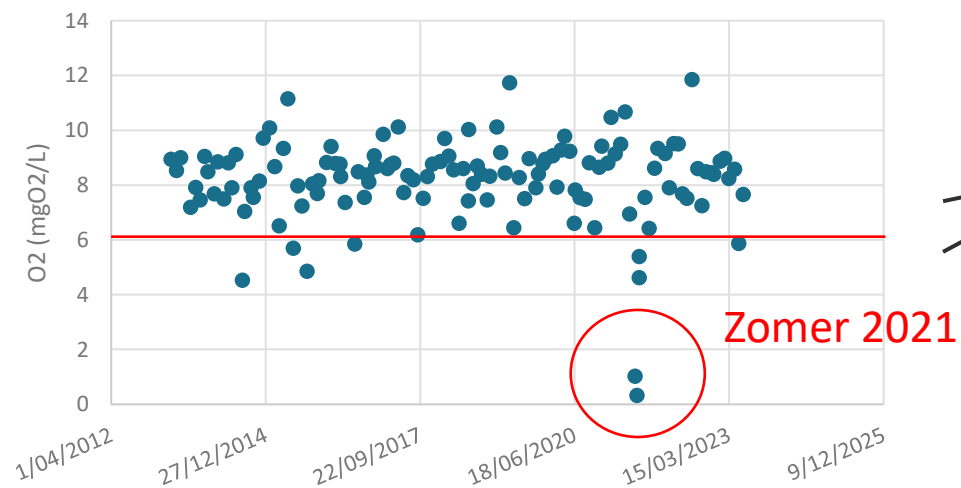
Jaar	2022
EC 20 ($\mu\text{S}/\text{cm}$) / 90 percentiel	
N t (mgN/L) / zomergemiddelde (apr-sept)	
O2 (mg/L) / 10 percentiel	
P t (mgP/L) / zomergemiddelde (apr-sept)	
pH (-) / maximum	
pH (-) / minimum	
T ($^{\circ}\text{C}$) / maximum	
Eindbeoordeling	

Fysicochemische toestand KRW

Evolutie beoordeling zuurstof

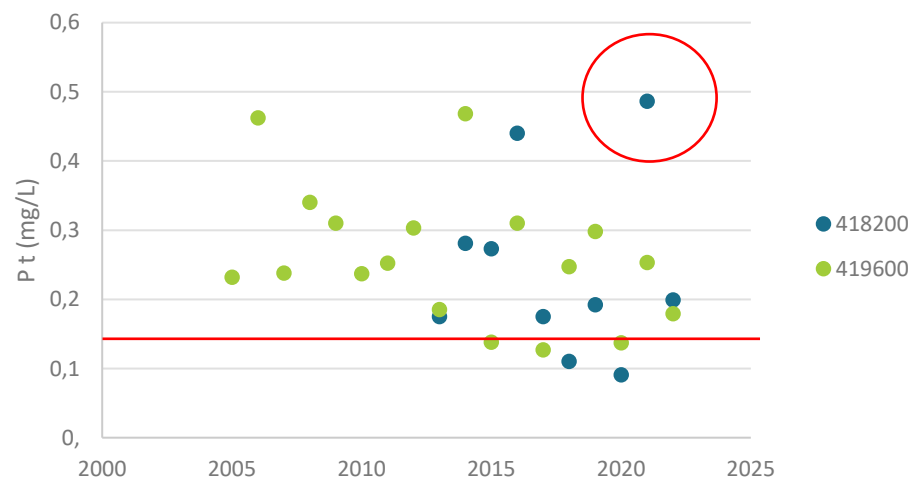


Evolutie O₂ meetplaats 418200

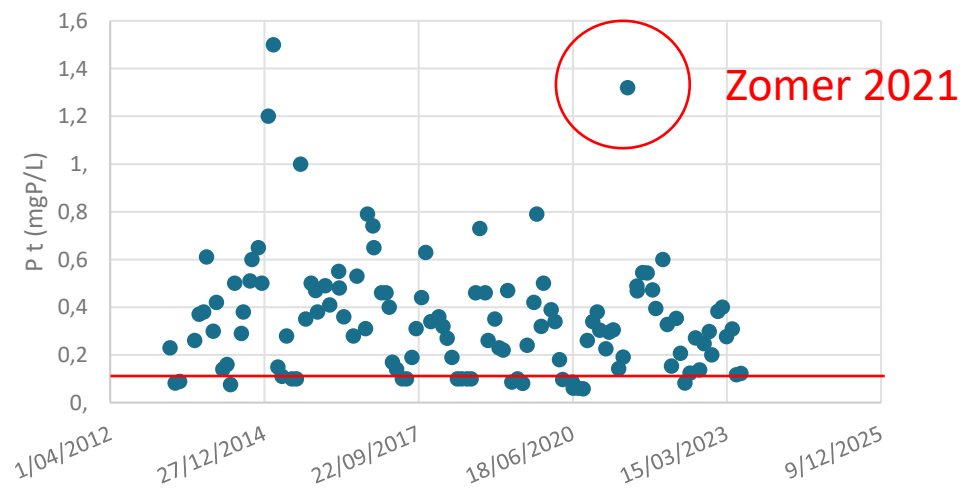


Fysicochemische toestand KRW

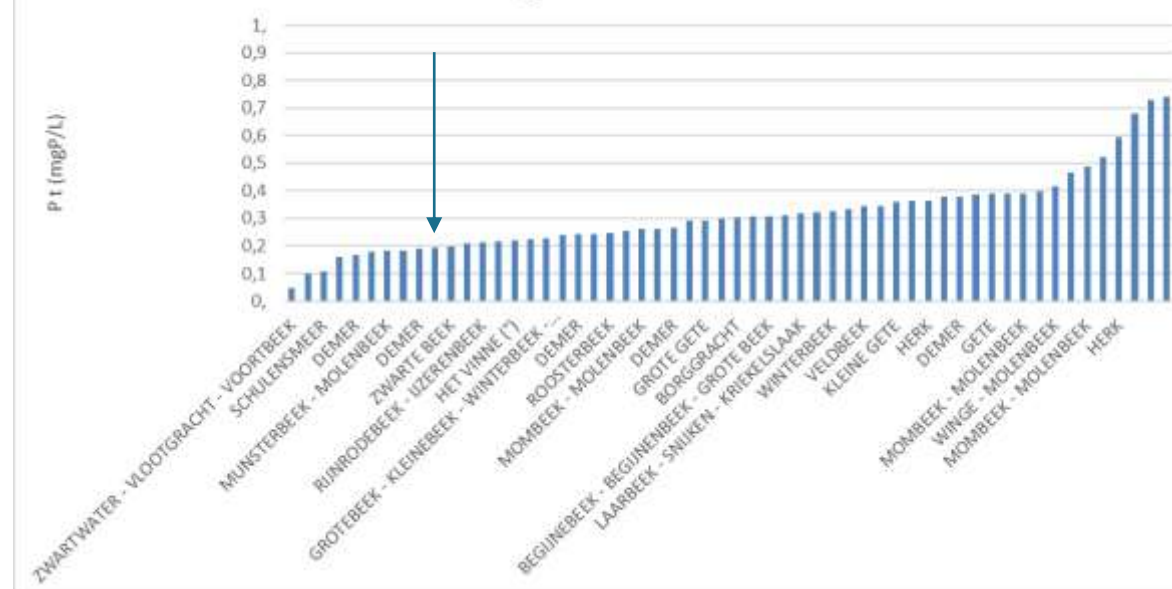
Evolutie beoordeling P t



Evolutie P t meetplaats 418200

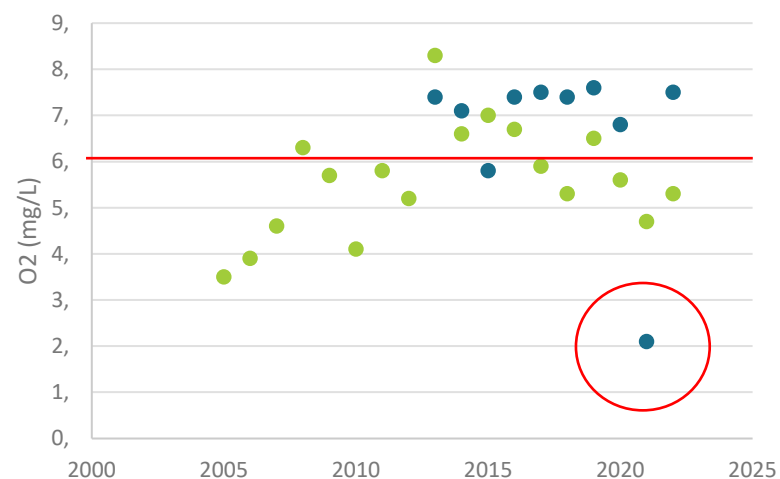


Beoordeling P t Demerbekken 2022

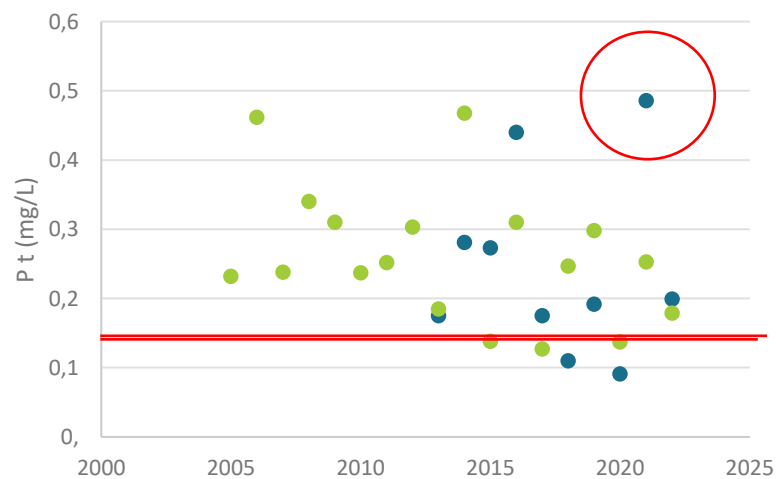


Fysicochemische toestand KRW

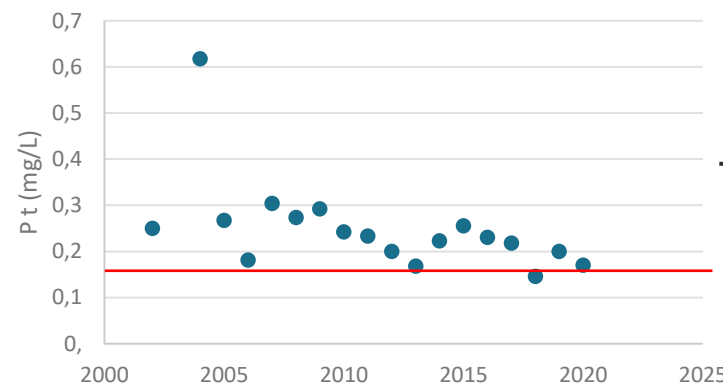
Evolutie beoordeling zuurstof



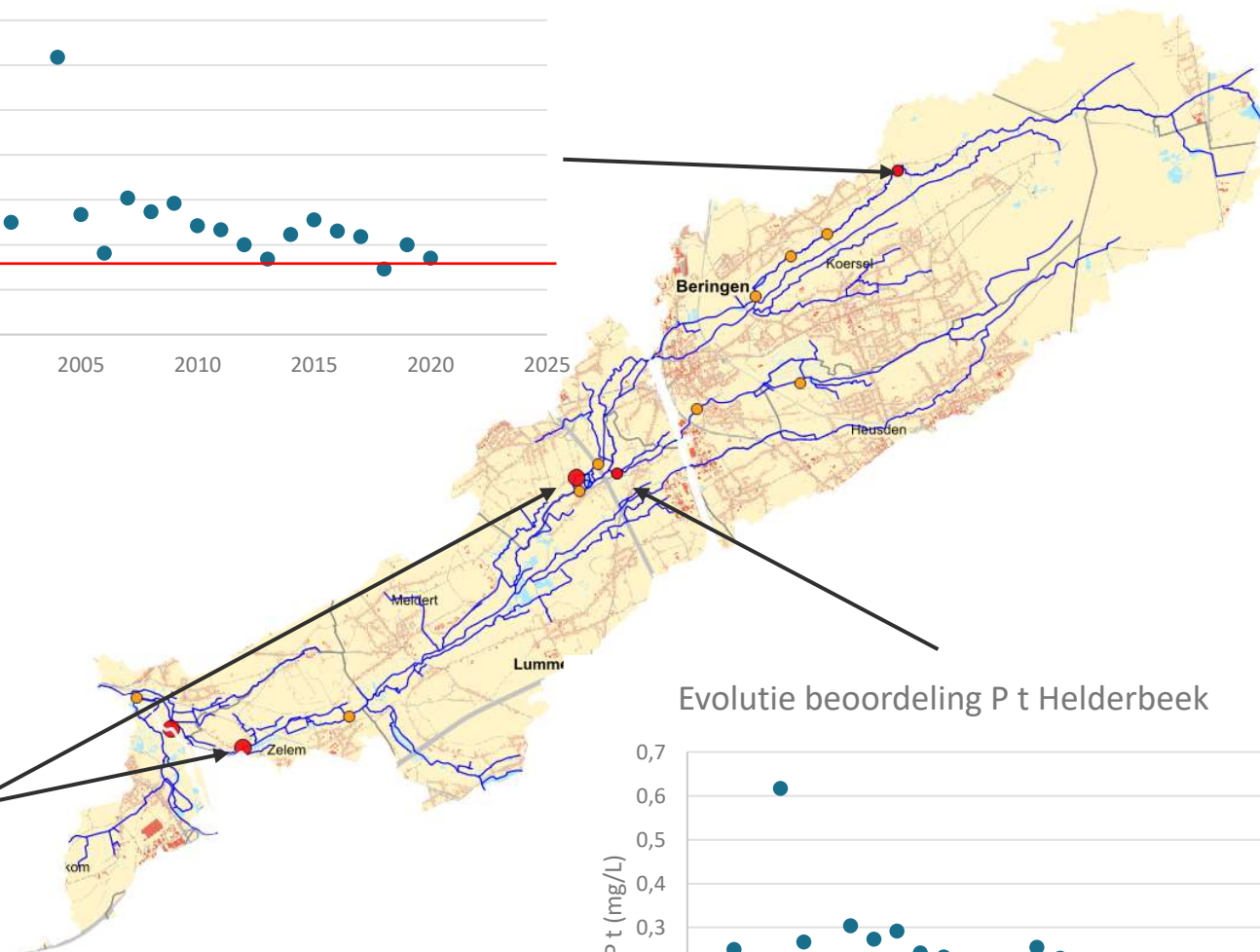
Evolutie beoordeling P t



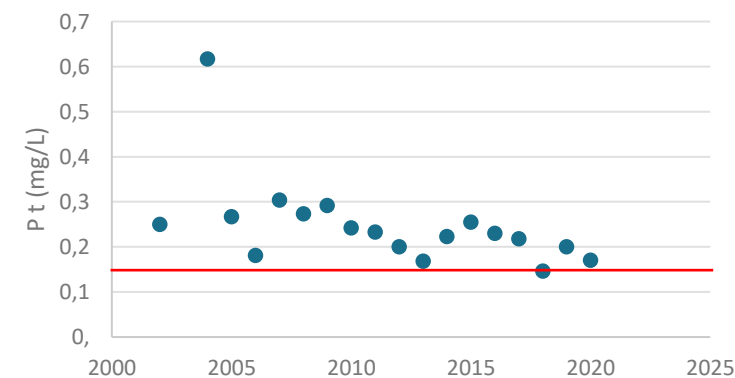
Evolutie beoordeling P t Zwarte Beek L1



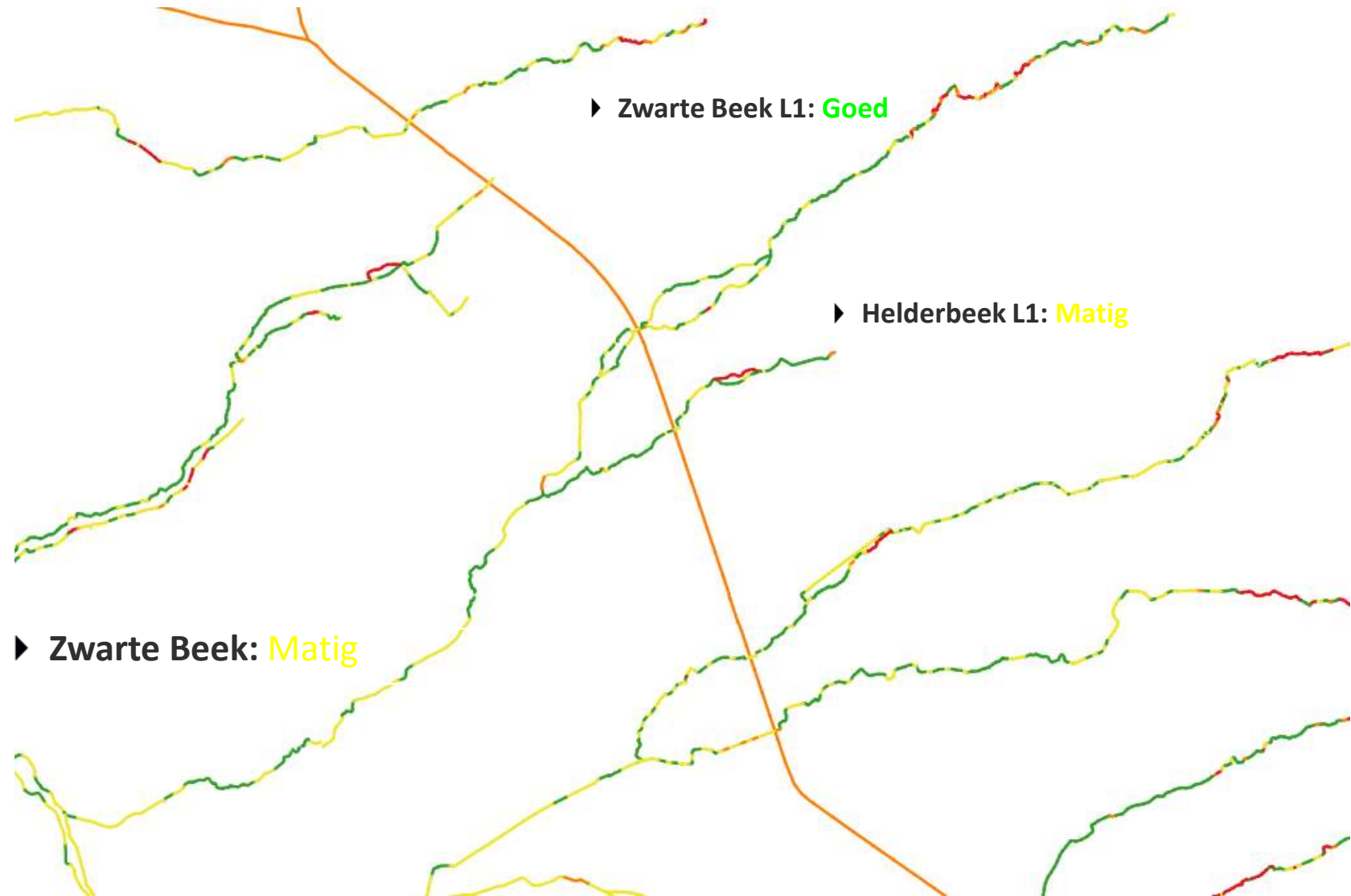
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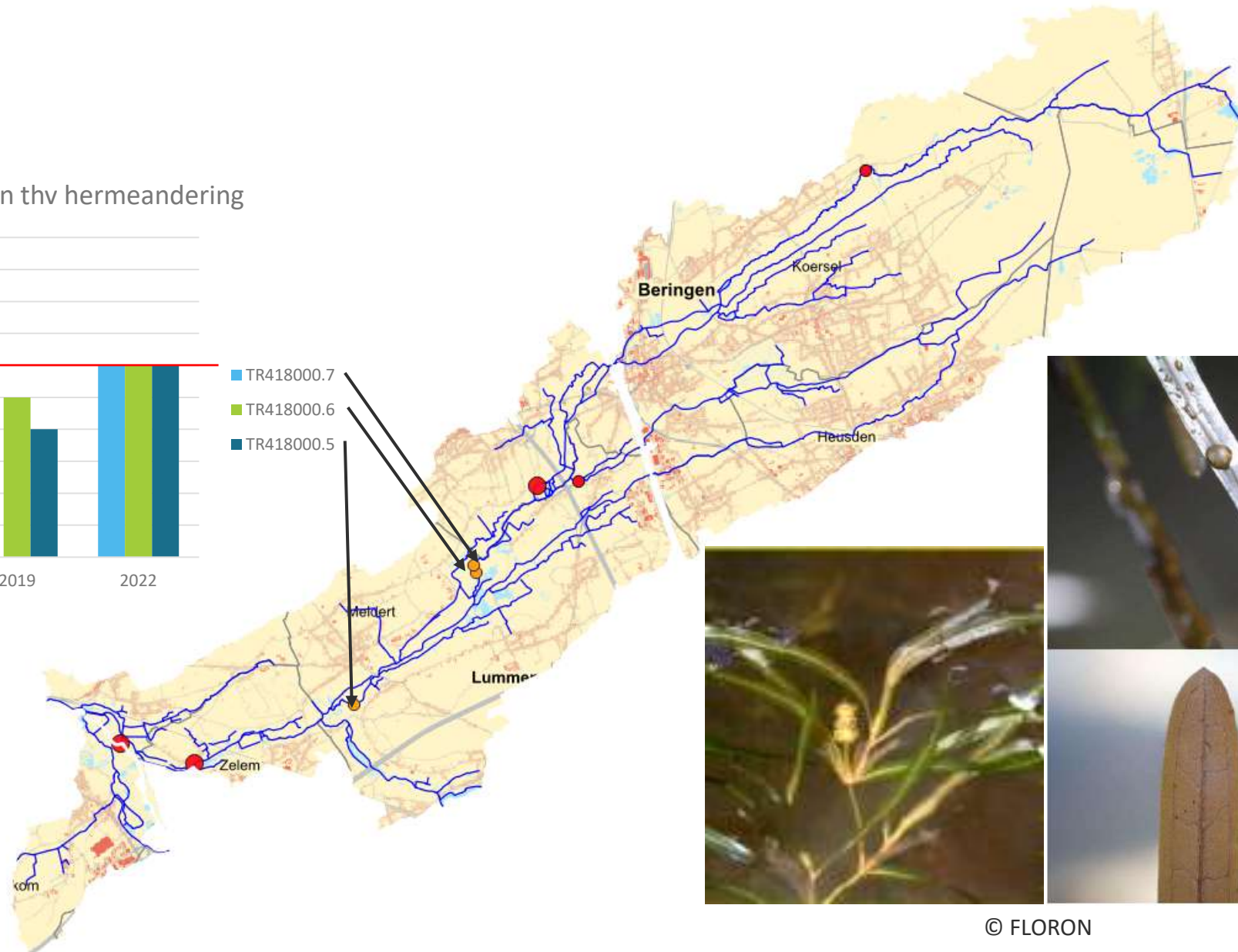
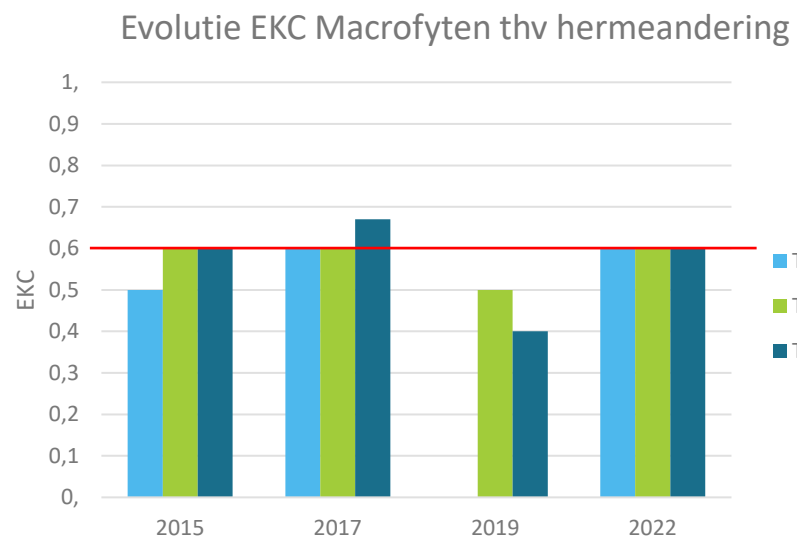
Evolutie beoordeling P t Helderbeek



Hydromorfologische toestand KRW



Monitoring hermeandering



Conclusies

- ▶ Biologische kwaliteitselementen bijna in GET
 - Positieve evolutie merkbaar
 - Aandacht voor macro-invertebraten
- ▶ Fysicochemisch bij betere van Demerbekken/Vlaanderen
 - P t en zuurstof nog knelpunt
 - Algemene verbetering merkbaar
- ▶ Diverse waterplantengemeenschap op alle hermeanderde trajecten



Vlaanderen
is milieu



**Bedankt voor uw
aandacht!**

Vragen?

m.dejonge@vmm.be