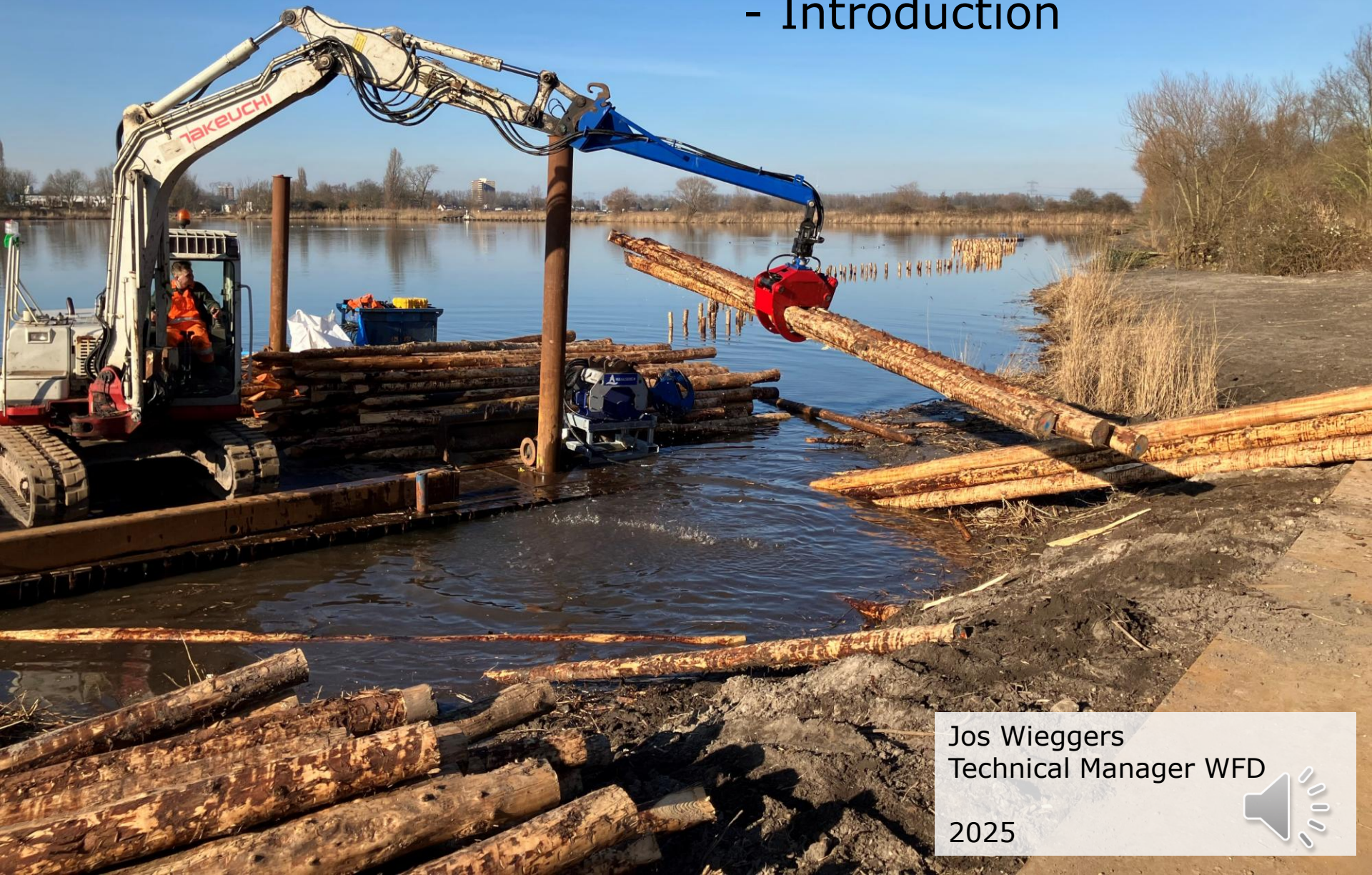


Biological bank protection and renaturing the Small Northern IJ-Lake - Introduction



Jos Wiegers
Technical Manager WFD

2025



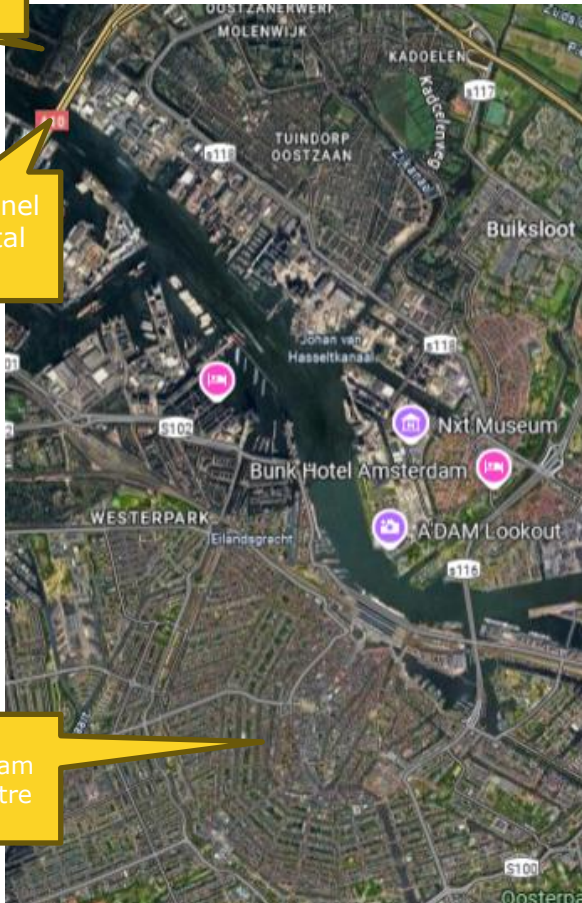


Location and brief history

Project
Location

Coentunnel
in Orbital
A10

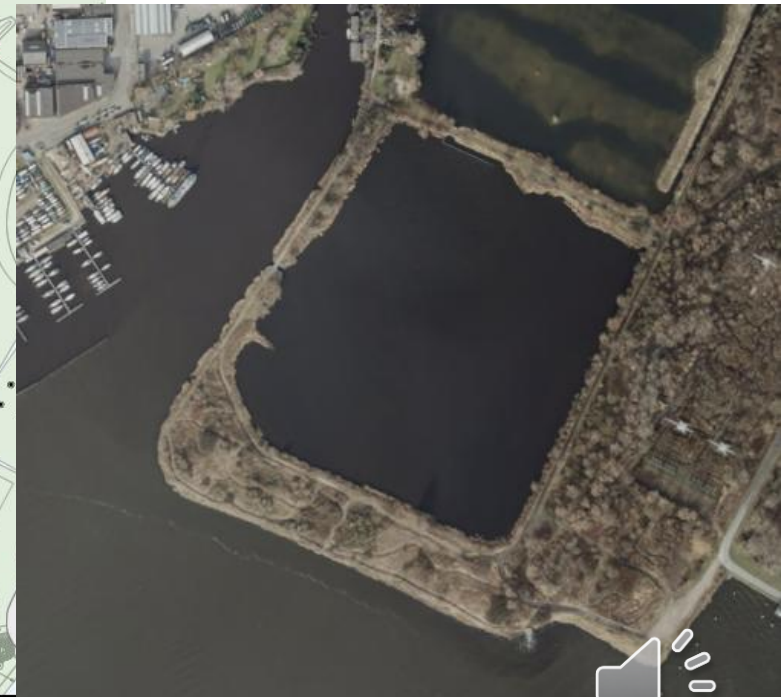
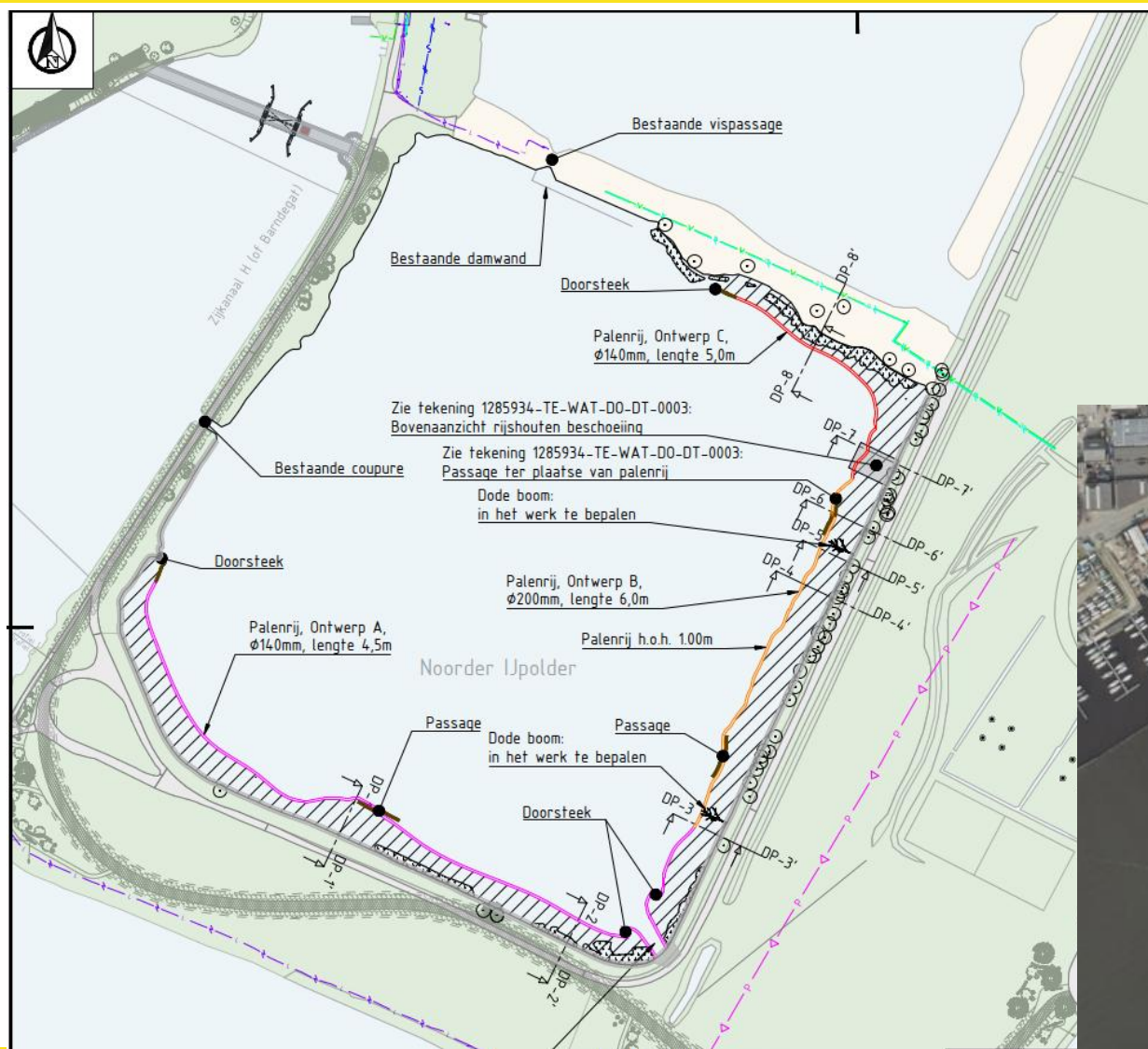
Amsterdam
City Centre



- Small Northern IJ Lake is a former building dock of the Coentunnel in the A10 orbital Build in 1964
- The Municipality of Amsterdam and Rijkswaterstaat wanted to renature this area and make it a WFD zone
- A cycle path is being constructed in the immediate vicinity, for which some existing nature had to make way
- We carried out the work entirely with recycled materials

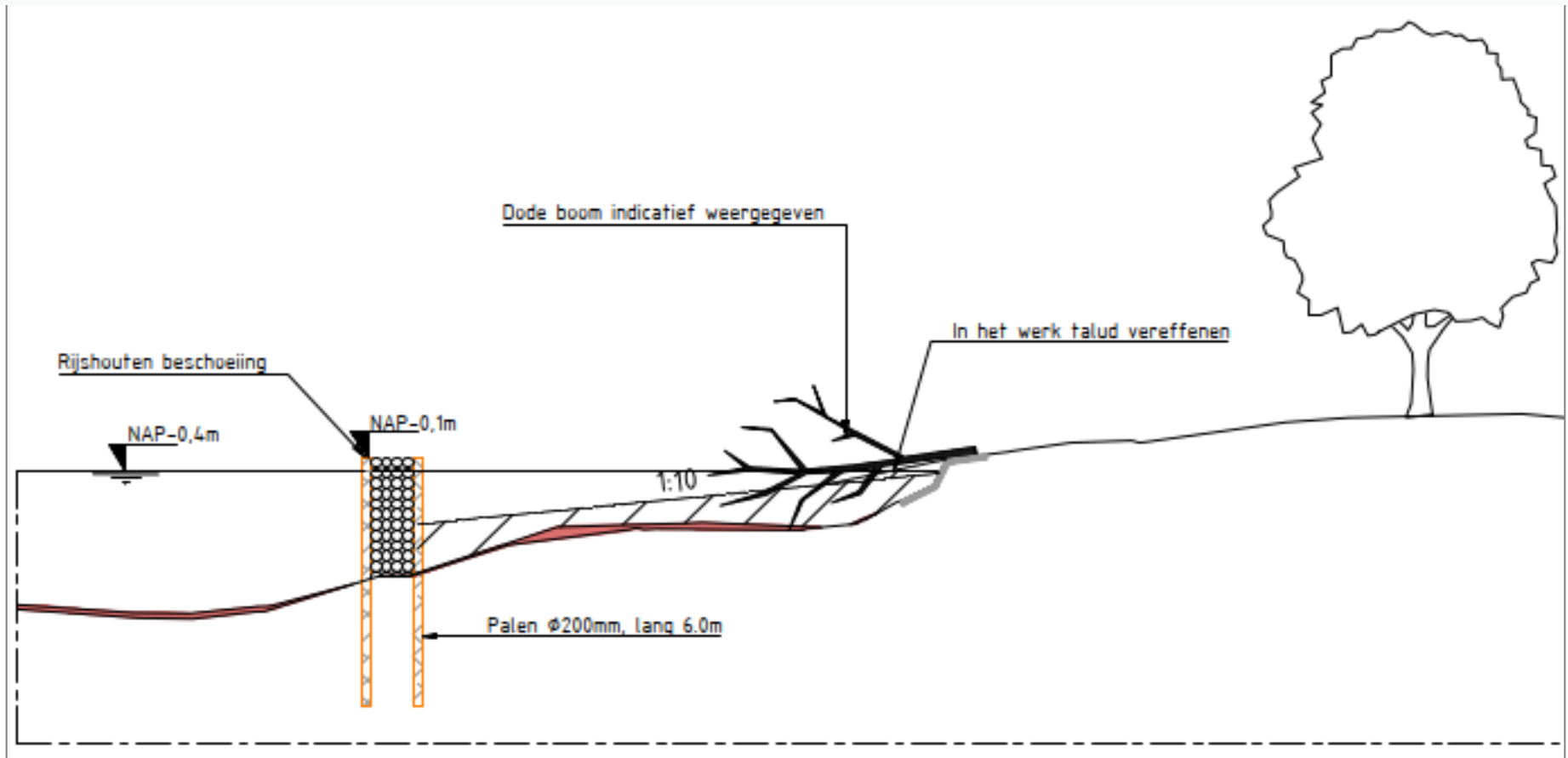


Project overview





Universal cross section





Shopping list for the project

- Soil/Sediment required for the construction of gentle banks
 - Uncontaminated residual soil from construction pits and other projects of the municipality of Amsterdam
- Branches and trunks for the construction of brushwood dams
 - Branches and trunks from the construction of the nearby cycle path
- Trees that are placed in shallow water as a fish forest
 - Excess trees being pulled into the water

Complete implementation of the project in zero emissions

- Soil logistics with electric trucks
- Electric Hydraulic excavator works
- Battery logistics with charging infrastructure for all activities mentioned above The charging took place with a container battery which was charged every night at a nearby Charging station at a shipyard.



Shelter spaces for Young
and Juvenile fish in a 'Fish
forrest'

Vissenbos
Rijshouten beschoeiing

NAP-0,1m

NAP-0,4m

1:10

Palen Ø200mm, lang 6.0m

14.90





General overview of Brushwood dams and Fish Forrest



Rijkswaterstaat



general overview of battery charging logistics





End result for now

