

Sedimentmanagement in the Port of Hamburg

SedNet Special Session:
Managing the Elbe Estuary

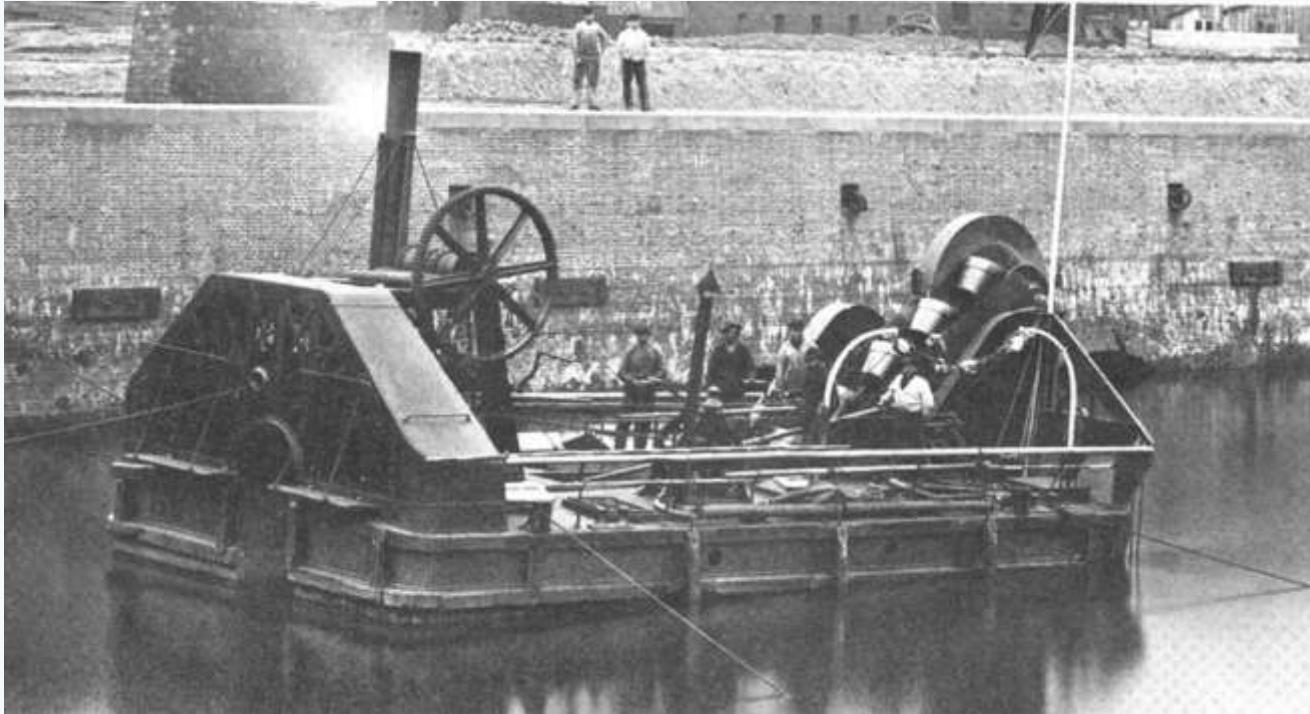
9th October 2009

The Drainage Basin

Length	1.091 km
Area	148.268 km ²
Average discharge	877 m ³ /sec
Population	25 Million



Dredging has a long history



Steam dredger in 1877

Land Disposal in the 1960's



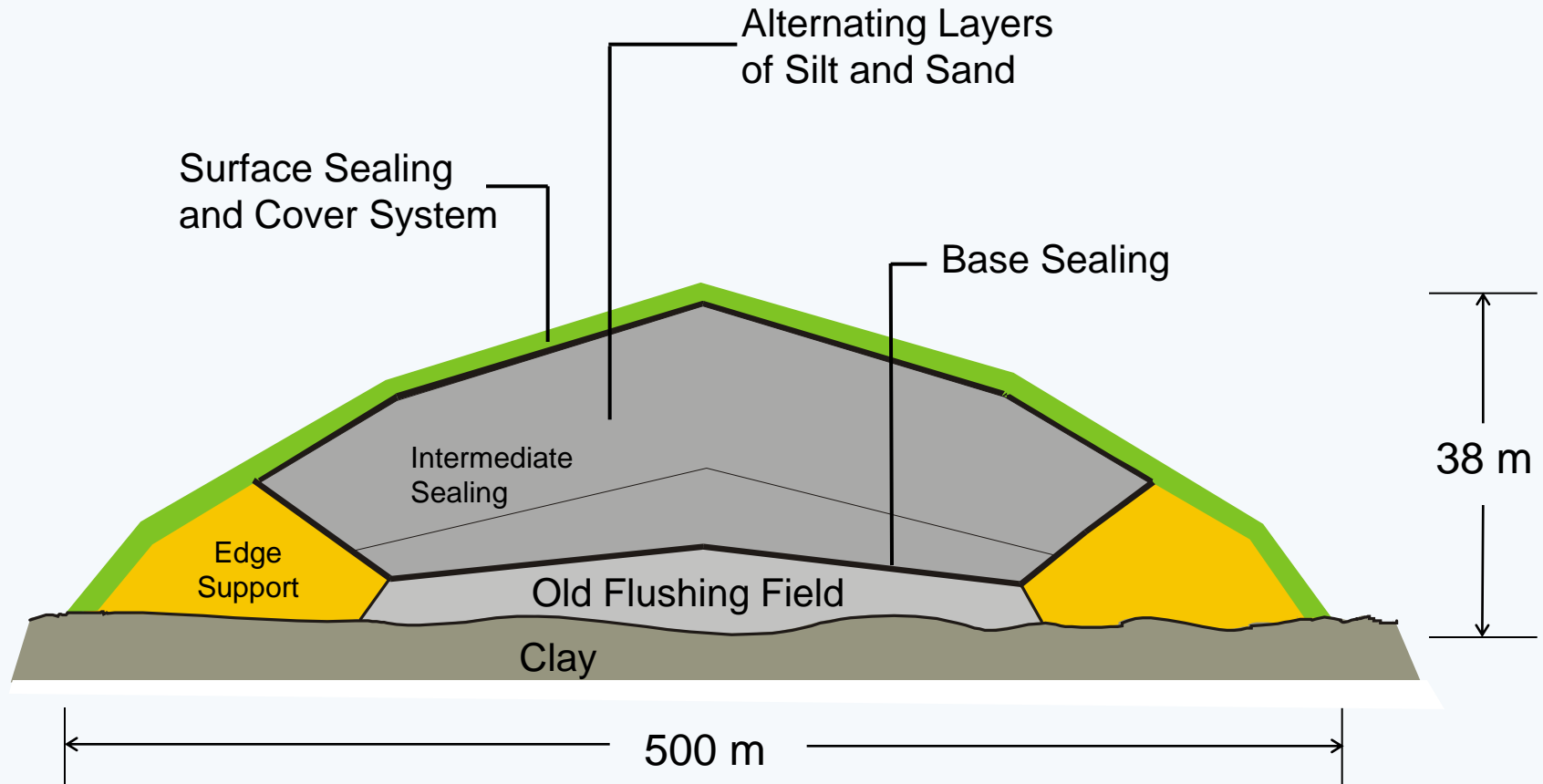
Demonstration in 1980



METHA Treatment Plant



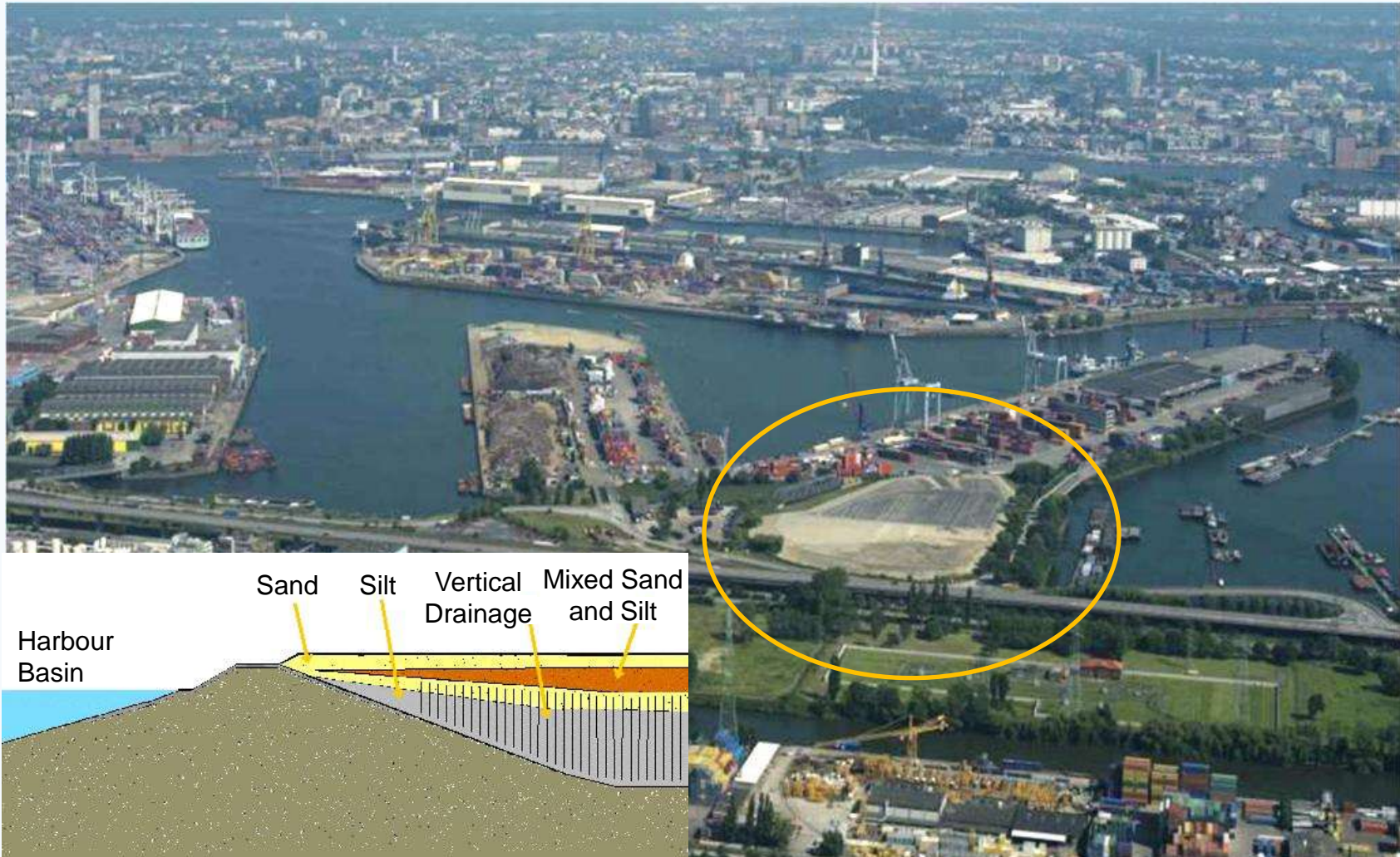
Francop Disposal Site – Construction Principle



Francop Disposal Site



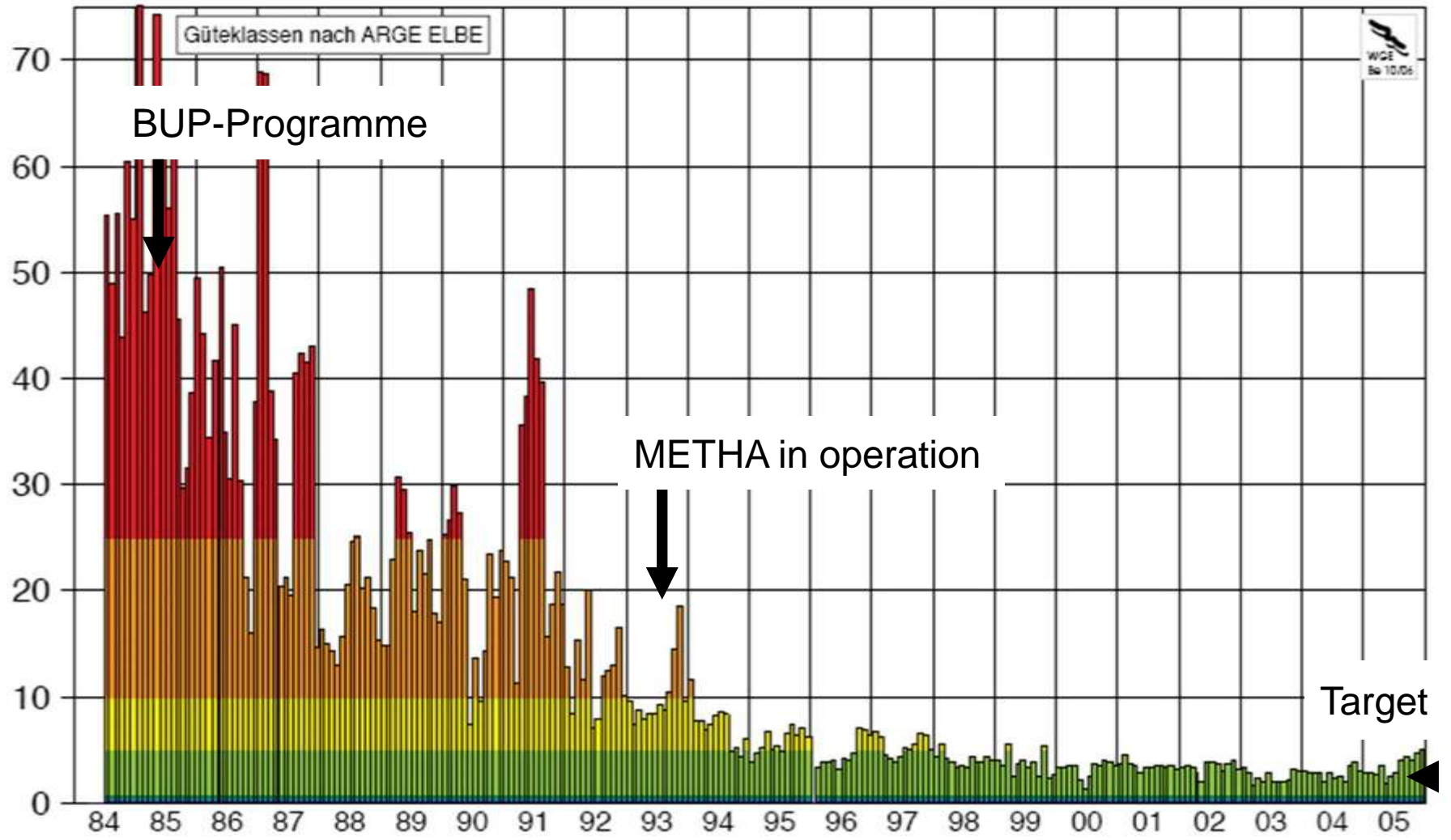
Beneficial Use at Rodewischhafen



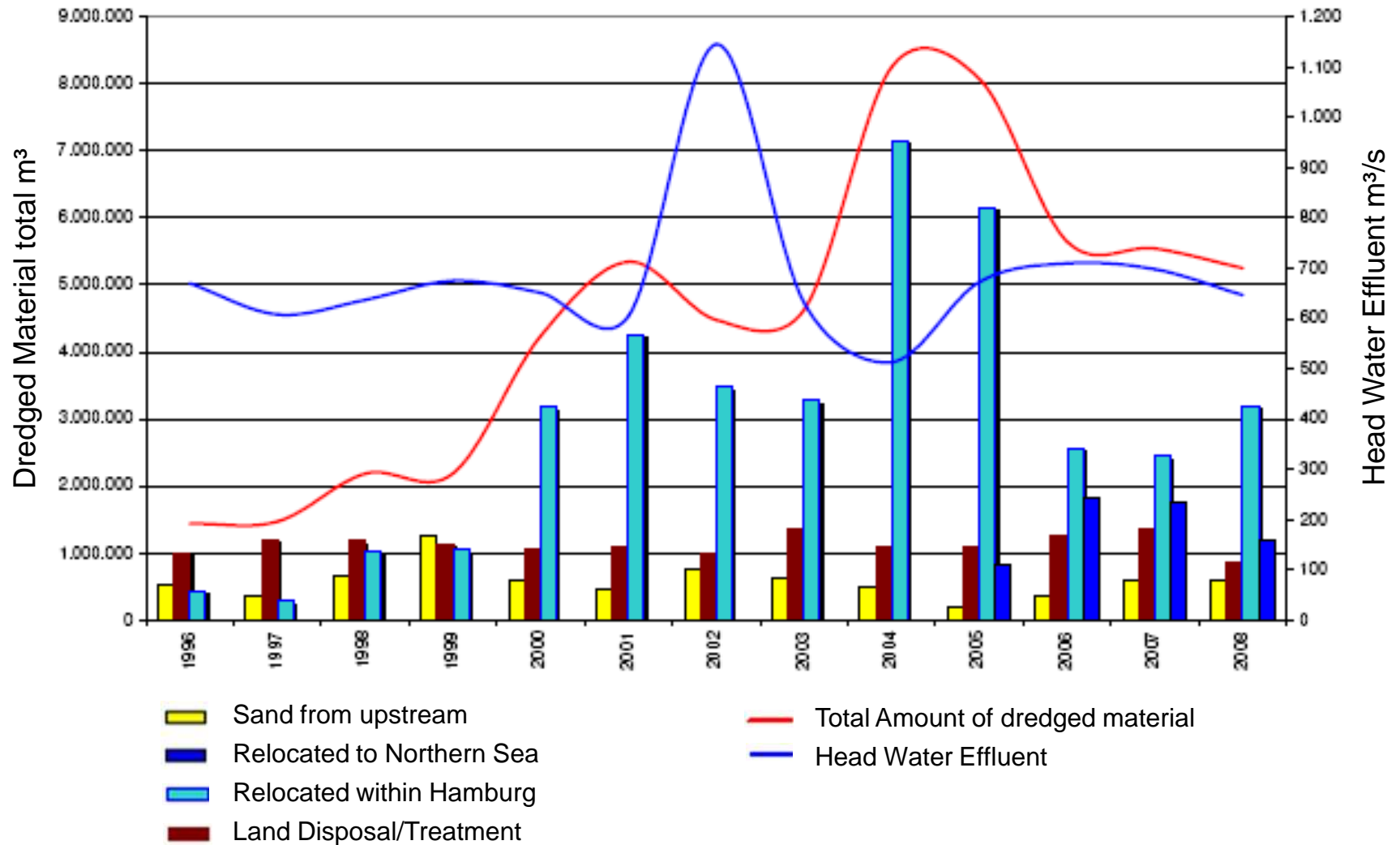
Beneficial Use / Dyke Construction



Mercury concentration in fresh sediments



Dredging Amounts from 1996 to 2008



Relocation to the North Sea



Container Terminal Access



Maintenance Dredging is necessary 3 to 4 times a year.

Under Keel Clearance



Hopper Dredger



Capacity 10.000 m³

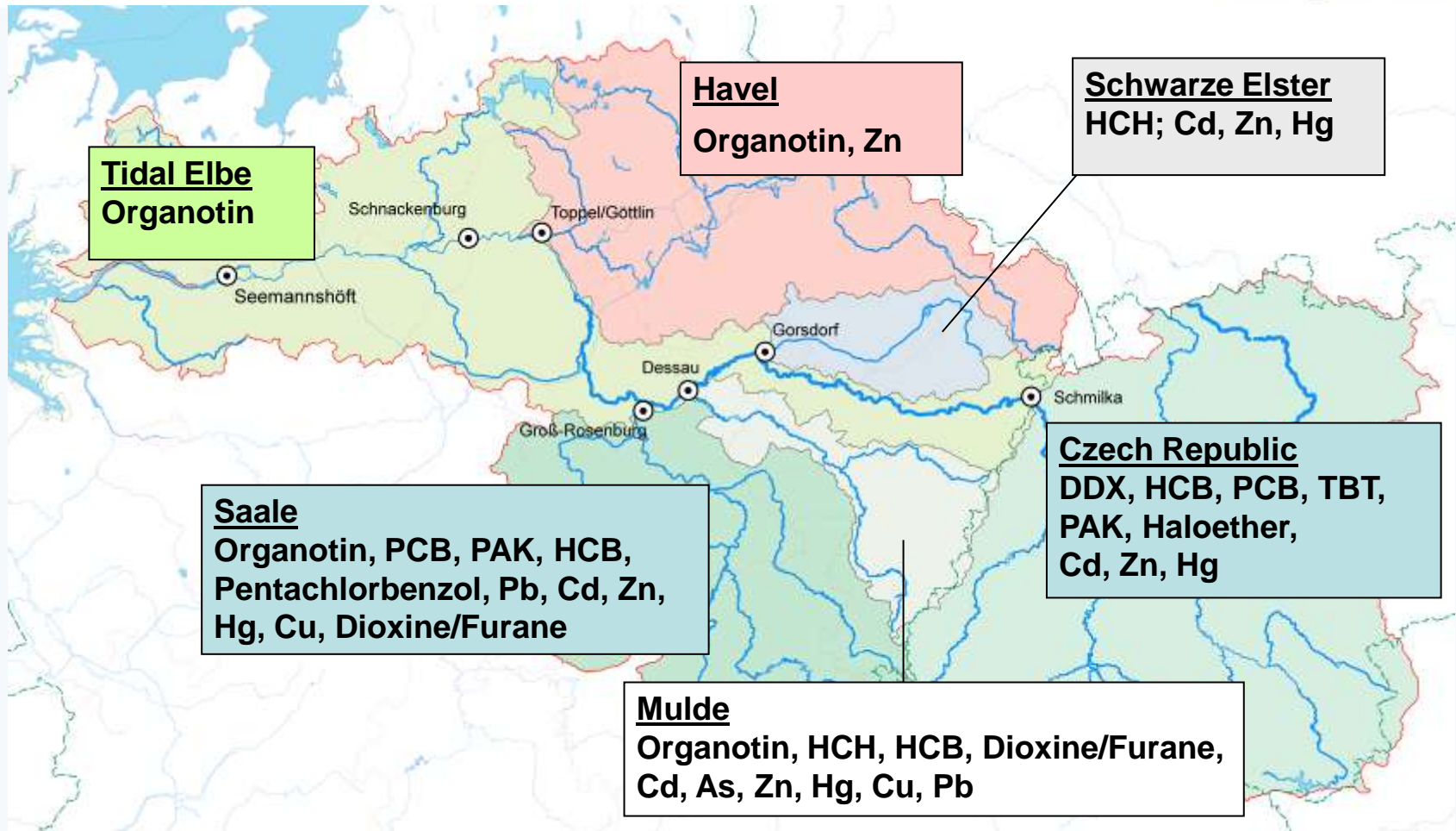


Abandoned Sites

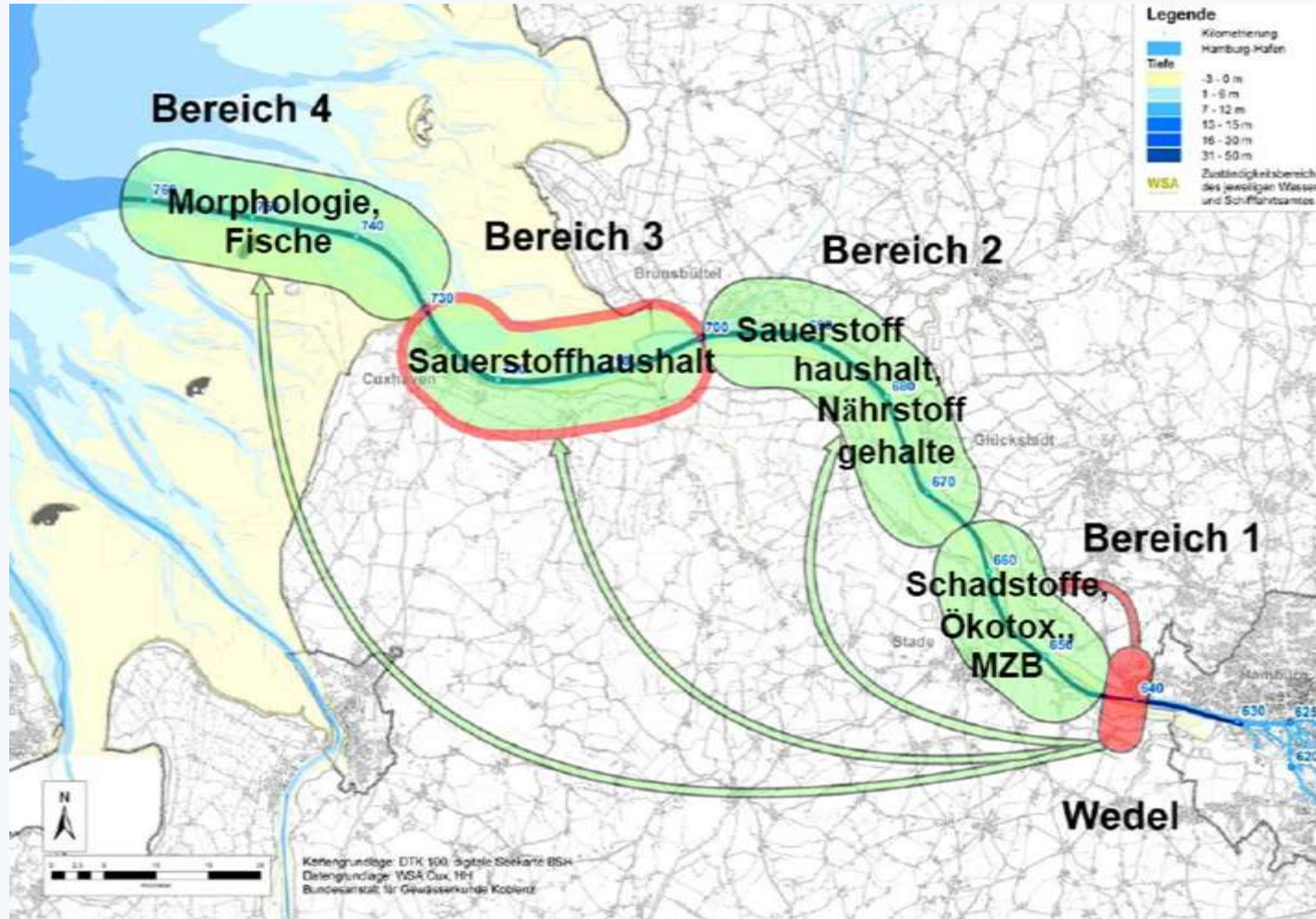




Location: approx. 400 km upstream of Hamburg

Contamination Sources in Elbe Sub-Catchments



System Analysis – „Sediment Management Tidal Elbe“



-  Room to the River
-  Ongoing Land Disposal
-  Integrated Relocation Strategy
-  River Restoration

Let's get it going...



... and thank you for your attention!



Contacts

HPA Hamburg Port Authority AöR

Neuer Wandrahm 4

20457 Hamburg

www.hamburg-port-authority.de

Claudia Flecken

Tel.: +49 40 42847-3133

E-Mail: Claudia.Flecken@hpa.hamburg.de