Project	Room for the River
Classification	R5B_2006_NL
Major Function	Resiliency
Other Functions	Restoration
Location	Rhine, Waal, IJssel and Meuse rivers, The Netherlands
Volume	Total sediment/soil volume 35 - 40 million m ³ (including flood plain soils), (excess sediment/soil volume 5 million m ³)
Technique	Excavation, segregation and reallocation of the different fractions
Contaminants	Present, but acceptable for reuse within the Dutch Soil Directive (criteria: no
	unacceptable ecotoxicological risk and no degradation of the overall quality of the waterbody)
Granulometry	Mix of gravel, sand, silt and clay, both wet (sediment) and dry (floodplain soil)
Scale	Real project scale
Client	Ministry of Infrastructure and the Environment, Rijkswaterstaat
Executor	Multiple consultancies and contractors (on different subprojects), Research
	institutes: STOWA, KNMI, Deltares, Alterra and universities
Research	National Water and Climate Knowledge and Innovation Programme (covering
program	topics like ecological impact, climate adaptation, resilience, adaptive delta
	planning, cyclic rejuvenation, flood probability, etc.)
Contact	Deltares (<u>Arjan.Wijdeveld@deltares.nl</u>)
Year Start – End	2006 – 2015

Case Study Beneficial Use of Sediments

Description of the project

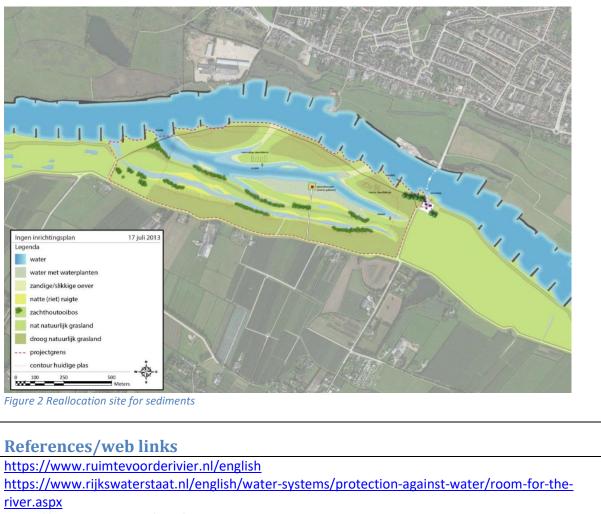
The goal of the Dutch Room for the River Program is to give the river more room to be able to manage higher water levels. For 30 locations measures were taken to give the river space to flood safely. This as an alternative to further increase the height of the dikes. To make this possible, ~40 million m³ of soils and sediments had to be reallocated. Most of the soils/sediments could be used within the project, but for some of the sediments an under water storage site (much like a Confined Deposition Facility or CDF) had to be constructed. By using old (or sometimes newly constructed) quarry sites (gravel, sand or clay) these quarry sites could be partially filled. The end result is an increase in wetland and shallow lake habitat.

Constructing a CDF type of solution (the stored sediments have contamination levels in line with the soil use specific standards, hence they are not seen as contaminated) in former pit lakes is one example of beneficial sediment use within room for the river. There are more examples. See the provided web links for information on the 30 locations.

Graphical information



Figure 1 Room for the River



https://en.wikipedia.org/wiki/Room_for_the_River_(Netherlands)