

THE HYDRAULIC FILL MANUAL EXPLAINED

BART HOOIVELD
BOSKALIS - HYDRONAMIC

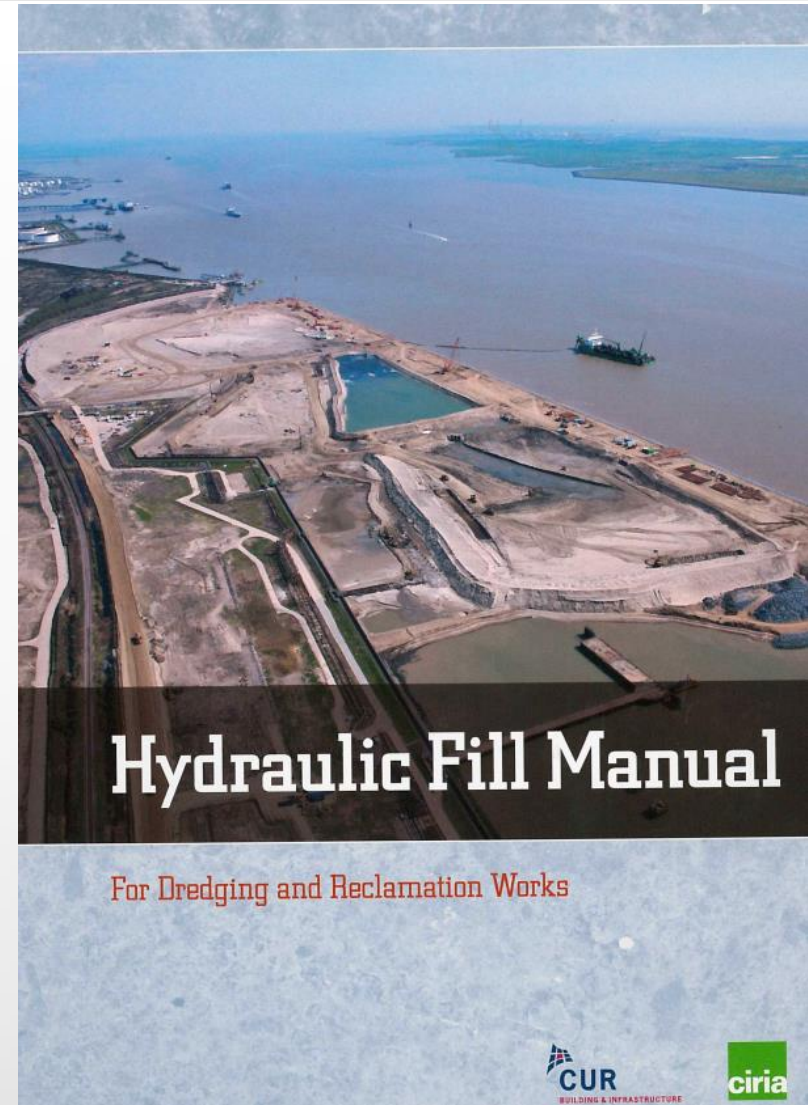
KIVI ALV - ROTTERDAM

5 MARCH 2015



CONTEXT AND OBJECTIVES

- Improve understanding of various parties involved in hydraulic fill project:
 - Clients
 - Contractors
 - Consultants
- Guidelines for initiation, design and execution of hydraulic fill projects
- Combine practical experience and theoretical knowledge
- Provide rational bases for technical specifications of reclamation projects



A FEW YEARS EARLIER...

- Endless discussions on reclamation accentuation and technical specifications:
 - Proctor density crushable
 - Interpretation of CPT
 - Interpretation of long t



Expert report (> 300 pp.)

NEW DOHA INTERNATIONAL AIRPORT PROJECT
Contract No: 25045-005-FC1-1840L-0003
PLATFORM RECLAMATION AND ARMORED REVETMENT
FACILITY Code: F1200
CONTRACT ID: 03
JOB Number: 25045

Report on the performance of the hydraulic placed fill in Area A

Rev. No.	Date	Issue Type	Originated by	Checked by	Checked DA	Approved by
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IT ALL COMES DOWN TO...

Clear requirements and specifications!

Typical pitfalls:

- Density/compaction requirements
- Distributed load vs uniform load
- Material properties
- Definitions, e.g. E-modulus
- Earthquake requirements

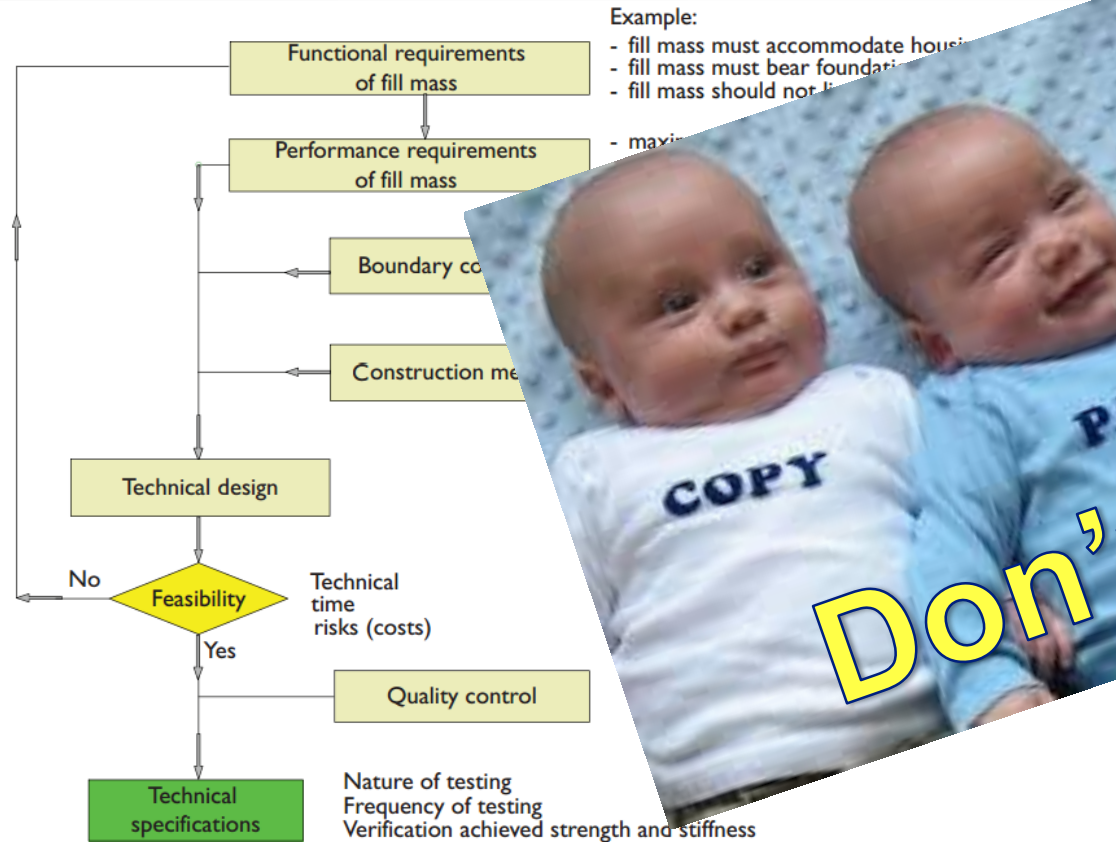
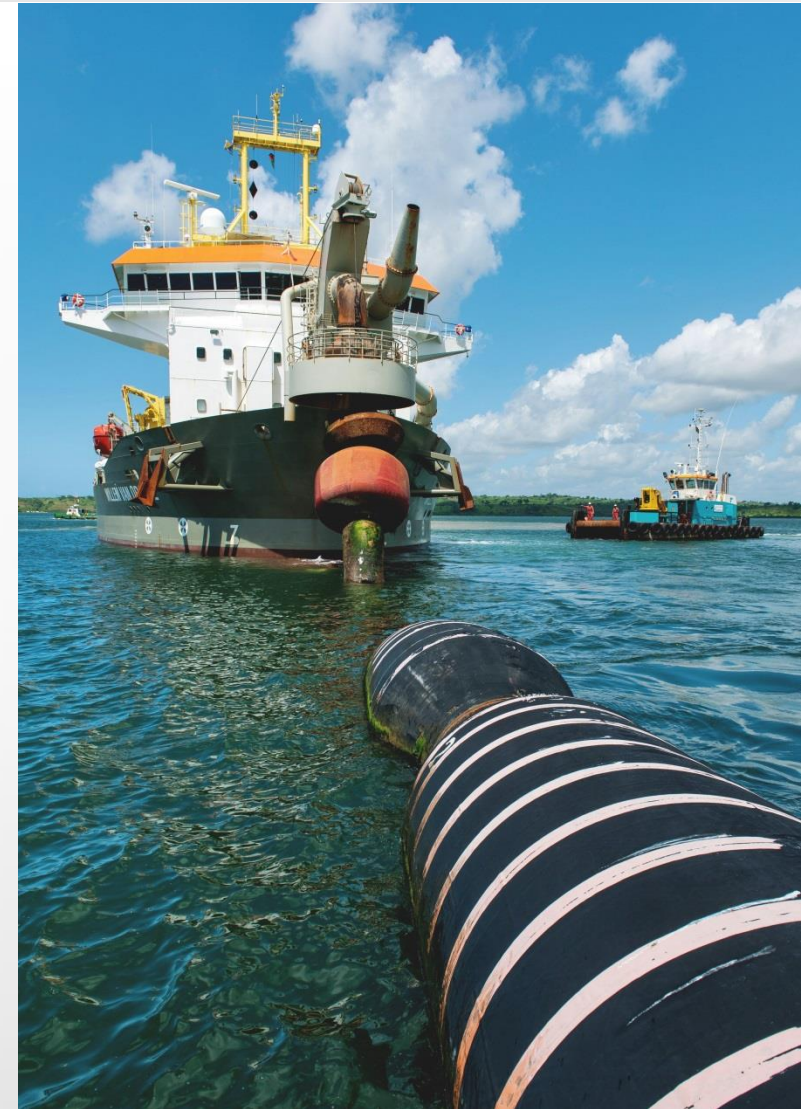
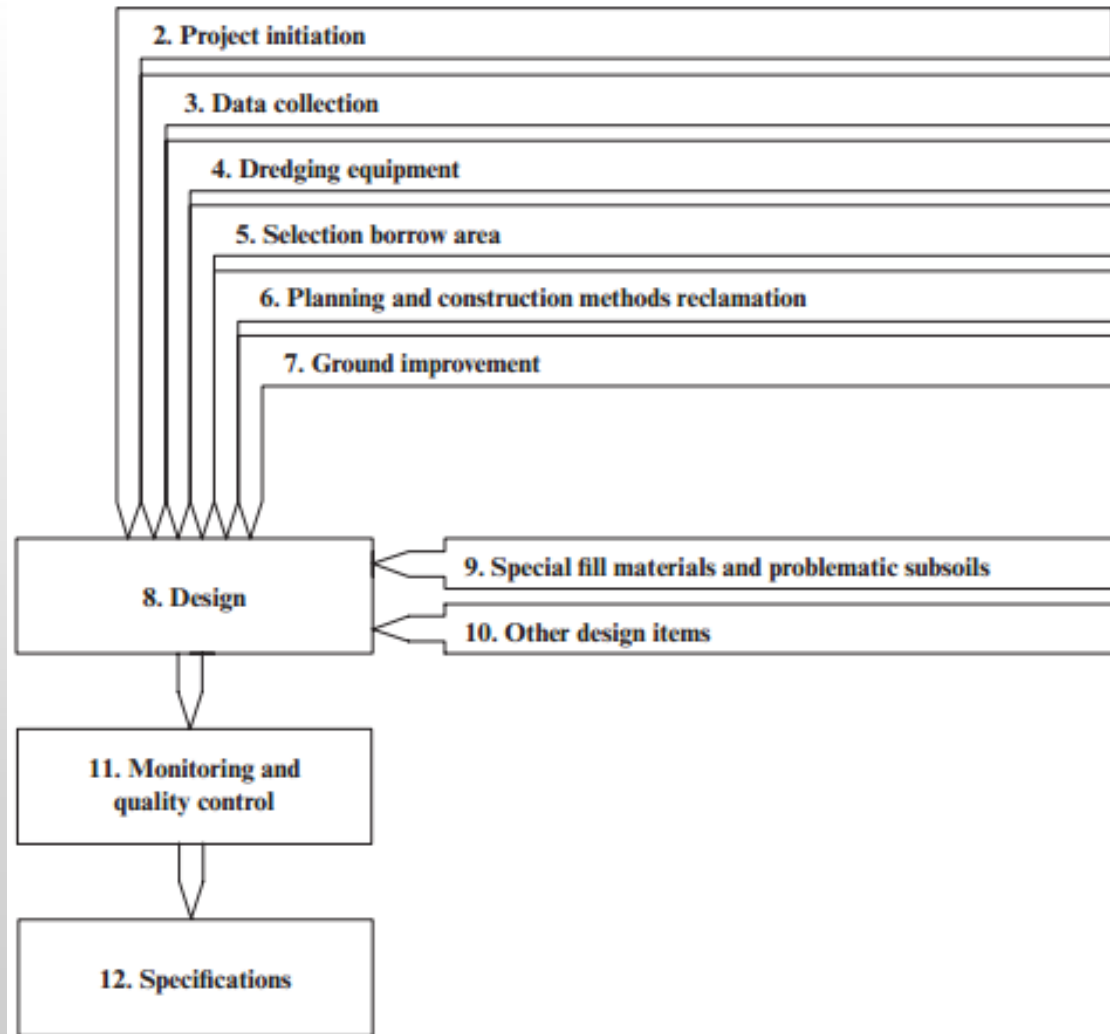


Figure 8.1 Flow chart of design process of a hydraulic fill.

STRUCTURE OF MANUAL



INTERNATIONAL COURSE



Stichting
PostAcademisch
Onderwijs

PARTICIPANTS



PAO • Civil Engineering and Building techniques

Courses and events

The Hydraulic Fill Manual

- international course in cooperation with
SBRCURnet and IADC-

Course leader	Ir. J. van 't Hoff (Van 't Hoff Consultancy)
Dates	November 20 and 21, 2014
Location	Delft
Price	€ 995 excl. VAT
Including	Hydraulic Fill Manual
Credits	10 PDH's Bouw- en Waterbouwkunde

