



Environmental & Dredging
Consultancy

Company profile

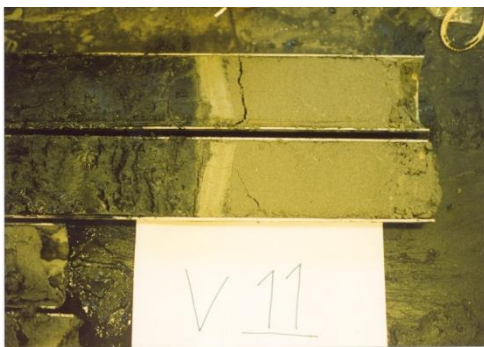
Your Creative Partner for:



Environmental protection
and planning



Dredging, reclamation
and disposal



Contaminated sediment
remediation



Coastal zone management
and development

Consulting | studies | research | field investigations | training | supervision

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e-mail: info@ecodredging.com

Welcome at

www.ecodredging.com

OUR TAILOR-MADE SERVICES

EDC - Environmental & Dredging Consultancy can provide a wide range of services for dredging and environmental projects, which perfectly meets the customer's needs. This website shows you a wide range of services we can offer you. If you are interested and wish to make an appointment or like to receive an offer, we kindly request you to fill in the information form and we will contact you as soon as possible.



All our services can be personalized, as flexibility is highly prioritized. EDC tries to meet its customers' demands as much as possible. As such, EDC is open to newly (to be) developed services. In this way our innovative approach is maintained.

Our flexibility not only shows in dredging aspects but also in the use of environmental aspects, unique meeting arrangements and tailor-made contracts, to the purpose of rendering services that meet your needs.



THE COMPANY

EDC, Environmental & Dredging Consultancy is an independent company of consulting engineers with world-wide experience in the fields of dredging, land reclamation and nature and environment. Our company is particularly specialised in the development of custom made solutions for all dredging and environmental projects. Based on our experience we can assist our clients from the early start of the projects to the construction supervision.

EDC was founded in 1998 in Zoetermeer, the Netherlands by Drs. Ronald van Oostrum. Since 2007 the company is fully owned by Mrs. Willeke van Oostrum-Mertens, who is at present also its general director. More than 15 years we have worked for dredging companies, consultancy companies, private companies, port authorities, governmental organisations, the EIA-committee of the Netherlands and the World Bank. Please see our completed project list for a more detailed overview of our projects at our website.

- [EDC Project list \(pdf\)](#)

Our Mission

The specialists of EDC are dedicated to bring environmentally sound thinking and innovative solutions to our customers. To accomplish this we also work on sustainable development projects.

Senior Staff

We believe that expertise and experience is with people and in addition to our staff of experts we have a worldwide network of specialists with many years of international experience in their fields. With EDC you will be provided with handpicked experts from within and from outside our company. Our key staff members are available at our website:

[CV Jan Enneking - Procurement, Dredging and Civil Engineering \(pdf\)](#)

[CV Pieter van Groen - Senior Design Engineer, Hydraulics, Morphology \(pdf\)](#)

[CV Jaap Poorta - Procurement Expert, Dredging Expert](#)

[CV Ronald Waterman - Expert in Sustainable Coastal Zone Development \(pdf\)](#)

[CV Marcus Druyts - Dredging Project Manager \(pdf\)](#)

International Experience

Our international experience for dredging and environmental projects covers the following countries: Argentina, Australia, Bahrain, Belgium, Bangladesh, Bulgaria, China, Egypt, England, France, Ghana, India, Indonesia, Israel, Italy, Lithuania, Maldives, Mauritius, Netherlands, Netherlands Antilles, Philippines, Poland, Qatar, Romania, Russia, Seychelles, Sri Lanka, Surinam, Tanzania, Tunisia, United States of America and Vietnam.

ENVIRONMENT

With respect to the environmental consultancy EDC is specialised in:

- Environmental impact studies (starting document, IEE, EIA)
- Ecological surveys
- Environmental aspects of dredging, disposal, land reclamation and contaminated sediments
- Environmental aspects of cooling water intake and outfall
- Mitigating measures and compensation measures to protect the environment
- Environmental monitoring programs
- Environmental management plan (EMP)
- Environmental aspects for tender and contract documents
- Tender evaluation for the environmental aspects
- Evaluation of environmental monitoring results
- Sustainable development



Environmental impact studies

Environmental studies can be carried out at several levels, depending on the legal procedures. The environmental aspects of small dredging projects can be done by means of an Initial Environmental Evaluation (IEE). The IEE contains a brief statement of key environmental issues, based on readily available information, and is used in the early (pre-feasibility) phase of project planning. The IEE also suggests whether in-depth studies are needed. If required, the IEE may be followed by a full EIA (Environmental Impact Assessment) at a later stage.

Big dredging projects are likely to require a complete EIA study. The start of an EIA is the production of a starting document, which will describe the project, the key environmental and legal aspects. Based on the defined guidelines the EIA can be prepared. Both the starting document and the EIA reports have to be open for the public.



Ecological surveys

An ecological survey is a very essential item for environmental impact studies. The survey will be carried out to ensure that the most sensitive ecological areas, like coral reefs, seagrasses, nursery areas, benthic communities, fishing and aquaculture sites, near the dredging and the reclamation areas will be identified and indicated on a map. In addition, communication with the local fishermen and NGO's will also provide extra information.



Environmental aspects of Dredging

The key environmental aspects of dredging, reclamation and disposal are: the removal of bottom materials, resuspension (turbidity), distribution and sedimentation of the sediments. During reclamation projects marine habitats will be changed into land habitats. Dredging projects may have effects on water quality, marine ecology (habitats and marine organisms), fisheries, birds, port operations and navigation, coastal hydraulics and coastline stability.



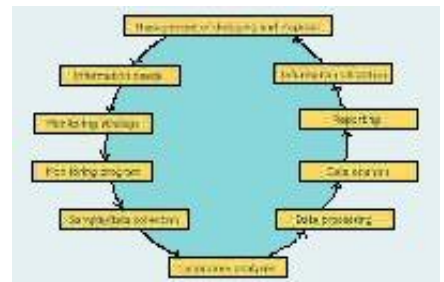
Mitigating and compensation measures

- EDC has a very wide experience regarding mitigating and compensation measures, including:
- The selection of the best sand mining areas
- Eco-efficient surface dredging
- Reduction and limitation of turbidity and sedimentation levels
- Reduction of overflow losses
- Excluding sensitive areas and certain time periods
- Use of silt screens
- Monitoring relevant ecosystems during the project
- Cleanup of corals
- Recovery of habitats



Environmental monitoring program

Based on the defined information needs, the locations of the sensitive ecological areas and the dredging methodology, the environmental monitoring plan will be developed. This plan will include the monitoring locations, the frequency of the monitoring works, the items to be measured and the required equipment.



Environmental management plan

The dredging and the reclamation works will influence a variety of environmental aspects. Therefore an EMP (Environmental Management Plan) will be developed before the start of the works. The plan will contain the evaluation of the most significant environmental effects and will define adequate mitigating measures to protect the sensitive areas. Aspects which will be included in the EMP are:

- Measures to prevent the introduction of alien species
- Minimising turbidity to prevent damages to the corals, seagrasses and benthic communities
- Using additional appropriate mitigating measures as presented in the IEE or EIA
- Presenting a correct waste management system



DREDGING

EDC does not only offer dredging studies, but also an integrated service package. Our services include:

- Dredging studies
- Preparation of Tender documents
- Evaluation of tender offers by contractors
- Construction supervision
- All environmental aspects of dredging (see environment)



Dredging studies

Dredging projects for capital and maintenance dredging, beach replenishment and land reclamation, and removal of contaminated sediments mean more than simply underwater earthmoving. The many and various aspects of dredging and reclamation mean specialists are vital to the achievement of the most economic and environmental solutions to the clients problems. EDC can assist the client in achieving an efficient and effective low cost dredging system, including the selection of most suitable dredging equipment, the production estimates, the timing of the project and the cost calculations.



Tender documents

The preparation of the tender documents will depend on the type of project, but also on the type of tender document system (e.g. personal contract or Fidic contract, etc). After the selection and invitation of several contractors, questions and discussions will take place regarding the tender documents. Questions and answers will be provided to all selected contractors.



Tender evaluation

EDC has significant experience in the evaluation of the tender offers. Based on the results of the offers by the contractors a summary report will be provided. Tender evaluations have been among other things done by EDC in France, Bahrain and China.

Construction supervision

During the execution of the dredging works EDC can also provide specialists for the construction supervision. One of the biggest projects for which we have done the construction supervision is the Daya Bay project in China for Shell - CNOOC.





For more information please contact:

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