Part-financed by the European Union (European Regional Development Fund)

Application of ecosystem principles for the location and management of offshore dumping sites in SE Baltic Region (ECODUMP)

Cross-border Dissemination Event II & Project Steering Committee meeting

2013-12-11/12
Gdansk, Poland
Gdańsk Science & Technology Park, Trzy Lipy Str. 3

Minutes

The second Cross-border Dissemination Event of the project ECODUMP was organized by Maritime Institute in Gdansk (partner of ECODUMP project) in the Gdańsk Science and Technology Park (Trzy Lipy Str. 3).
During the first day of the meeting results obtained in the framework of the project to this time were presented. The aim of the meeting was to familiarize participants with the results and stress the relevance of activities for representatives of maritime administration, ministry, ports, scientific institutions and other companies. The results was presented during four sessions: legislation aspect, scientific aspects, beneficial use of dredged sediment sand modeling.
The second day of the meeting was dedicated to a discussion of the implementation of the project, potential problems, and presentation of the project budget.

December 11, 2013. 9:00-17.00. Cross-border Dissemination Event II

The meetingwas attended by 60 participants, representing broad range of stakeholders working with dumping related issues: decision making authorities, ministry, port authorities, scientific organizations, and other practicioners (participants list is attached).

Welcome andopening

The conference was initiated by dr. KazimierzSzefler - Director of Maritime Institute in Gdansk, who welcomed the participants. Additionally the participants were welcomed by Ms. Barbara Aftanas (head of the Department of Environmental Protection MIG) and dr. Grazyna Dembska (project leader on the Polish side).

Introduction tothe project

The short introduction to the main assumptions was given by the leader of ECODUMP project Nerijus Blazauskas from the Marine Science and Technology Center Coastal Research and Planning Institute (Klaipeda University, Lithuania).

Legislative aspects

Sergej Suzdalev from the Marine Science and Technology Center Coastal Research and Planning Institute, Klaipeda University presented Existing legislative requirements for the location of offshore dumping sites and monitoring approaches. He compared the legislative documents regulating dumping and sediment management and are obligatory in Poland, Russiaand Lithuania. He presented existing documents and propositions for changes. The second speaker in this session was Paweł Banaś from the Ministry of Infrastructure and Development in Poland. He gave a presentation about Legislation in Poland concerning sediments,dumping sites and related topics. He payed attention to the loopholes in this area. During the discussion he raised a question about eventual need of transposition of the the EU Directives and HELCOM guidelines to national legislation.

Scientific aspects

In the second session Current situation and results of chemical analysis of dumping sites was presented by Grazyna Dembska from the Maritime Institute in Gdansk (Poland). She showed the comparisonof obtained results of dumping sites from South-Eastern Baltic Sea area. Results of investigation will be used while creating dispersion model of contamination from dumping sites in SE Baltic Sea. The results will be used also to develop the monitoring programme of existing dumping sites in SE the Baltic Sea and guidelines to designate a new sites for deposition of dredged material.
The participants discussed about the need to find the best solution for the reduction of risk to marine environment due to hazardous substances including dredged material and chemical weapons.

Then Monika Michałek from the Maritime Institute in Gdansk (Poland) gave a presentation of Biological studies in the Gdynia Dumping Site. The main aim of biological studies conducted within the framework of ECODUMP project was to assess the state of the macrozoobenthos in Gdynia dumping site. The speaker described the conducted tests and obtained results and recommended further research including influence of dumping operation on the organisms. She presented also proposal for the biological part of monitoring program. The participants discussed about presented results, background for the study and reference points.

The next speaker was Sergej Suzdalev from the Marine Science and Technology Center Coastal Research and Planning Institute, Klaipeda University. He presented Experimental dumping of moraine at the nearshore sand dumping site. In the presentation he said about the parameters of sand dumping site and detailed describedthe impact on theenvironment.

Beata Płatkowska from the Port of Szczecin-Świnoujście Authority (Poland) gave a presentation Environmental Monitoring - construction of the quay in the external port Swinoujscie. She described groundwork of the supervision and environmental monitoring. She said also about the scope of the monitoring of water around the invest area and dumping site close to Swinoujscie Port.

Assumptions for the monitoring programme of dumping sites were presented by Grazyna Sapota from the Maritime Institute in Gdansk (Poland). The main objective of the monitoring program of the dumping site is to determine whether the storage and management of the dumping site, including depositing process/method, should be amended to avoid unreasonable deterioration of the marine environment or risk to human health. The monitoring program of the dumping site should be an integral part of the management plan of the dumping site and should assess the effects of storage of dredged material related to the specific activities in the field of management. The monitoring program should be a tool for support decision-making

process. The monitoring program should detect environmental changes and to assess compliance with the conditions specified in the permit for storage.
The participants discussed the legal sanction regarding the monitoring of dumping sites and the possibility to introduce the guideline of monitoring programme to the HELCOM.

The last speaker in this session was Nerijus Blazauskas. He said about Application of MSP principles for the location of new dumping sites and presented Lithuanian case study results. He determined the location of the new dumping and said what should be taken into account during the process of choosing the new place.

Beneficial use of dredged sediments

During the session were presented results of two projects concerning the management and beneficial use of dredged material: DredgDikes and SMOCS. Both project were conducted under BSR Programme 2007-2013.

About the use of dredged material for the construction of embankments was talking R. Ossowski representing Gdansk University of Technology (Poland). He showed the results of laboratory tests and field test.

Grazyna Sapota representing Maritime Institute in Gdansk made a comprehensive presentation on stabilisation/solidification technology as a tool for sustainable management of contaminated dredged sediments - results SMOCS project.
After the presentation, participants extensively discussed the possibility of applying this technology including legal aspects.

The third presentatiuon was done by Ole Hjelmar from Danish Hydraulic Institute (Denmark), who said about the environmental impact assessment carried out during the planning stage of a land reclamation-reuse project which generally provides the information necessary for approval by the environmental authorities. He showed also example of interpretation of percolation and legal aspects regarding whole process.
The participants discussed the problem with clasification of dredged sediments according the Polish legislation and possibility of recomendation the Danish experience to proposed changes.

Modeling session

Tomasz Olszewski from the Maritime Institute in Gdansk (MIG) made an interactive presentation on the application of two dimensional models for the assessment of potential spreading of dumped material from the dumping place. Spreading simulation was done by applying different scenarios of weather conditions in the area.

The next modelling report was done by Andrei Sokolov from P.P. Shirshov Institute of Oceanology of RAS(Russia), who presented the results of numerical modeling including behaviour of dredged material. Main idea of modelling works was to choose an appropriate strategy for the use of dredged material in order to protect particular coastal sectors from the intensified erosion processes.

Evaluation of potential spread of dumping material dredged in the waters of Šventoji harbour for alternative dumping sites using 3D sediment transport model was presented by Petras Zemlys from Marine Science and Technology Centre Coastal Research and Planning Institute (Lithuania). This modelling tool allows follow precisely the bottom morphology and bathymetry using variable resolution. The model was applied using real data from the year 2010, knowing precisely the number of dumping events, amount and types of dumped sediments.

December 12, 2013. 9:00-13.00. Project Steering Committee meeting

The chairman of this meeting part was Sergej Suzdalev (KU MSTC CORPI). The meeting was mainly focused on the discussion of main project deliverables, e.g. guideline and monitoring programme.
Participants discussed the deadlines for drafts of documents which are the output of the project (Monitoring Programme and Guidelines for the selection of new dumping sites).

Financial Manager of the project presented the current budget and also the possibility of possible relocations in the budget.

Due to the possibility of extending the duration of the project by the end of 2014 (will be confirmed to the end of 2013) the date of the final conference will be determined later.

Sergej Suzdalev summed up and closed the meeting.

2013-12-16 Grazyna Dembska

Date, Signature of the Organiser (responsible project partner organisation)

GRAZYNA DEMBSKA

Name and Position of the Signatory (in CAPITAL letters)