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PROGRAMEL OPERATIVELE SECȚIONAL TRANSPORT  
**TRANS**  
Mobilitate în România. Conexiuni cu Europa.

**Project:** MONITORING THE ENVIRONMENTAL IMPACT OF THE WORKS REGARDING THE IMPROVING OF THE NAVIGATION CONDITIONS ON THE DANUBE RIVER BETWEEN CALARASI AND BRAILA, km 375-175  
*PHASE II*

*MONTHLY REPORT NO. 24: 1 -30 April 2013*

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## ANNEX 6.3. ACTIVITY REPORTS EXPERTS



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### 6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

## MONTHLY REPORT 1 - 30 April 2013

No	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 24	<ul style="list-style-type: none"> <li>○ Covering breviary problem according to AFDJ Galati guidelines</li> </ul>	Monthly Report no. 24
2	Communication of the project's phase and results towards the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> <li>○ Addresses' elaboration towards AFDJ Galati</li> <li>○ Participation at the progress meeting</li> </ul>	
3	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> <li>○ Checking the continuous monitoring stations, velocity measurements and bathymetry</li> <li>○ Checking sturgeons' monitoring stations</li> <li>○ Checking the sampling campaigns</li> <li>○ Checking the building site activities</li> </ul>	
4	Coordination of the project's implementation team and permanent monitoring of the proposed activities for the reporting period	<ul style="list-style-type: none"> <li>○ Field visits to monitor the activities</li> <li>○ Working meetings</li> </ul>	
5	Approval of experts' monthly activity reports		
6	Documents' checking carried out for the 24 <sup>th</sup> month of projects' implementation		
7	Elaboration of the activities' program for the period of (1 - 31 May 2013)		

**Project leader,  
PhD eng. Deák György**



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.2. Expert position: WATER AND SOIL MONITORING EXPERT -Gina Ghiță

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ORGANISING SAMPLING CAMPAIGN OF WATER AND SEDIMENTS SAMPLES</b>	<ul style="list-style-type: none"> <li>▪ Preparation of sampling recipients (differently, according to chemical indicators) for water and sediments;</li> <li>▪ Preparation of reagents to fix water samples in field conditions;</li> <li>▪ Laboratory and field AMCs calibration;</li> <li>▪ Preparation of reagents set for field and laboratory analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Assurance of proper conditions for the sampling campaign</li> </ul>
2.	<b>SAMPLING CAMPAIGN OF WATER AND SEDIMENTS SAMPLES (20.04.2013; 27.04.2013)</b>	<ul style="list-style-type: none"> <li>▪ Water and sediments sampling from CP 01, 02, 10</li> <li>▪ The conformation to the geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples have been labeled;</li> <li>▪ Each water and sediment sample has a completed registration bulletin for the sampling activity;</li> <li>▪ Field analysis (pH, temperature, dissolved oxygen, turbidity) regarding waters' quality;</li> <li>▪ Water samples have been fixed according to actual standards to determine laboratory indicators</li> </ul>	<ul style="list-style-type: none"> <li>▪ 50 water samples</li> <li>▪ 20 sediment samples</li> </ul>
3.	<b>PHYSICAL-CHEMICAL LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Assurance of the specific standard procedures of the analytical data quality.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Preliminary data on water and sediment quality</li> </ul>
4.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Participation at the Monthly Report</li> </ul>	

Expert,  
PhD eng. Gina GHIȚĂ

Project leader,  
PhD eng. DEÁK György



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.3. . Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist 2)

## MONTHLY REPORT 1 - 30 April 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 24 <sup>th</sup> campaign (10,12,19.04.2013)	For the main CP: 01, 02, 10	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no. 21 (10,12,19.04.2013)	For the main CP: 01, 02, 10	Preliminary values of the air quality's indicators
3.	Data processing	Processing activity of the data measured on the field	Analysis bulletins
4.	Other activities	<ul style="list-style-type: none"> <li>○ Participation at the meetings of the project's team in order to plan the future activities</li> <li>○ Contribution to the accomplishment of the 24<sup>th</sup> monthly report (Air and Noise monitoring)</li> </ul>	Monthly Report no. 24

**Expert,**  
PhD chem. Adriana Borș

**Project Leader,**  
PhD eng. DEÁK György



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.4 Expert position: ICHTYOLOG 2 EXPERT- Other fish species- Adrian IONAȘCU

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Checking the VR2W submersible automatic stations' batteries 4.04.2013; 16.04.2013	Submersible automatic stations' batteries have been checked and if necessary, changes in CP01	Checked batteries
2.	Data download from the VR2W submersible automatic stations 4.04.2013; 16.04.2013	The data recorded at the stations in CP01, 02 and 10 have been downloaded	Data download
3.	Sturgeons labelling 7.04.2013; 25.04.2013	2 sturgeons have been caught and labelled with ultrasonic marks and antipoaching spaghetti	Labelled fish
4.	Barbel labelling 17.04.2013; 18.04.2013	4 barbels individuals have been caught and labelled with ultrasonic marks and antipoaching spaghetti	Labelled fish
5.	Sturgeons' and barbels' migration monitoring	Sturgeons' and barbels' migration monitoring using the VR2W submersible automatic stations	Recordings
6.	Accomplishment of bathymetric profiles	Accomplishment of bathymetric profiles in the potential breeding areas	Profiles
7.	Velocities measurements in the potential breeding areas, Borcea Bala	Data obtaining regarding the velocities from the potential breeding areas	Measurements' results
8.	Benthos sampling in the potential breeding areas 17.04.2013; 25.04.2013	Benthonic fauna has been sampled from the potential breeding areas	Samples
9.	Barbel habitats mapping	Mapping barbel's potential breeding and feeding areas	Areas localization
10.	Other activities	Contribution to the accomplishment of the 24 <sup>th</sup> Monthly Report and equipment preparation for spring migrating season	

**Expert,**  
PhD biol. Adrian Ionașcu

**Project Leader,**  
PhD eng. DEÁK György



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.5 Expert position: ICHTYOLOG 2 EXPERT- Other fish species - Istvan Falka

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preliminary analysis of the previous obtained data	Analysis of biometric data obtained through the previous capturing of other fish species, through depth electrical fishing (electric trawl), fishing with fixed and drifted nets in the CP 01, 02, 03A, 03B, 04 A, 04B, 07, 10	- Characterization of fish populations Species' composition, structure on size classes, distribution, abundance, habitat preferences
2.	Mackerel migrating campaign and accomplishment of bathymetric measurements 17.04.2013, 18.04.2013, 25.04.2013	Biometric measurements at the mackerel caught by the commercial fishermen, GIS identification in the critical points	- Biometric data at mackerel - 2 mackerel species' migrating monitoring
3.	Other activities	Contribution to the accomplishment of the 24 <sup>th</sup> Monthly Report	Monthly Report

**Expert,  
Istvan FALKA**

**Project Leader,  
PHD eng. György DEÁK**



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.6. Expert position: HYDROLOGY EXPERT - Balint Gabor

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity and level data processing activity, recorded in the automatic stations, April 2013	Statistical processing of level, temperature and turbidity data recorded in January in the automatic stations from CP01, CP02 and CP10	Statistical indicators, turbidity and temperature variation graphics, hodographs of the relative and absolute water level, water gradients, correlations between the automatic monitoring stations
2.	Contribution to the monthly report no 24	Data processing and interpretation	Hydrology subchapter elaboration at the hydromorphological monitoring activity and Annex 6.5

Expert,  
PhD eng. Balint Gabor

Project Leader,  
PhD eng. Deák György



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.7. Expert position: HYDRAULIC SEDIMENTOLOGY EXPERT - Gh Viorel UNGUREANU

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (01, 02, 05, 09÷12, 18÷26, 30.04.2013)	Single-beam bathymetric measurements in the critical points and the monitoring sections. Single-beam bathymetric measurements to complete the necessary areas for the 3D modeling.	Raw and processed bathymetric data, transversal bathymetric sections
		Water flows and water velocity measurements in the main critical points and the monitoring sections	Raw velocity and flow data
		Weekly water velocity measurements on transversal sections in the automatic monitoring stations of turbidity and level	Raw velocity data
2.	OTHER ACTIVITIES	Processing of the flows and velocity measurements from the previous months	Processed velocity and flow data Velocities sections
		Contributions to the Monthly Report no 24	Hydromorphology chapter and Annex 6.5
		Development of a program proposal for the period of 1 - 31 May 2013	Program

**Expert,**  
PhD eng. Gh. Viorel UNGUREANU

**Project Leader,**  
PhD eng. DEÁK György





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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.8 Expert position: PHYTOPLANKTON AND MACROPHYTES EXPERT - Florica Marinescu

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪Microscopic identification of organisms that compose the phytoplankton for the samples taken from CP03A, CP03B, CP04A, CP04B, CP07</li> <li>▪Microscopic counting of the algae unities that compose the phytoplankton (quantitative analysis)</li> </ul>	Results from the quality data
2.	<b>DATA ANALYSIS PROCESSING</b>	<ul style="list-style-type: none"> <li>▪Accomplishment of phytoplankton and macrophytes species list identified in the samples</li> <li>▪Density and biomass computation for phytoplankton samples</li> <li>▪Density and biomass computation for aquatic macrophytes</li> <li>▪Saprobe index computation and Simpson diversity index for phytoplankton samples</li> <li>▪Results' interpretation and quality data graphic representation, resulted from phytoplankton analysis</li> </ul>	Values of the quality indicators
3.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Elaboration of the monthly Report no.24-aquatic flora and fauna monitoring chapter (excepting ichtyofauna))</li> </ul>	Monthly Report no. 24 - Chapter F

**Expert,  
Biologist Florica Marinescu**

**Project Leader,  
PhD eng. DEÁK György**



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MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>Additional selection of macroinvertebrates samples taken to select the benthonic organism and to make future investigations</li> <li>Qualitative and quantitative analysis of aquatic macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>20 sample unities analysed and selected</li> <li>Restuls on quality data</li> </ul>
2.	<b>DATA PROCESSING AND ANALYSIS</b>	<ul style="list-style-type: none"> <li>Abundance and numerical density on taxonomic groups of macroinvertebrates</li> <li>Shannon-Wiener diversity index computation for macroinvertebrates samples</li> <li>Accomplishment of saprobiological indicators of water quality</li> <li>Graphic representation of quality data resulted from macroinvertebrates samples' analysis</li> </ul>	<ul style="list-style-type: none"> <li>Preliminary values of quality indicators</li> </ul>

**Expert,  
Luiza FLOREA**

**Project Leader,  
PhD eng. DEÁK György**



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### 6.3.13 Expert position: AVIFAUNA MONITORING EXPERT- JOZSEF SZABO

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<p><b>AVIFAUNA MONITORING CAMPAIGN, SPRING SEASON</b></p> <p>Evaluation expedition of the brooder fauna (01-13.04.2013)</p>	<ul style="list-style-type: none"> <li>○ Field campaign in the area of the CP 10 - Caleia branch, Lupu islet (12, 13 April): <ul style="list-style-type: none"> <li>▪ Terrestrial observations</li> <li>▪ Shore aquatic avifauna observations</li> <li>▪ Aquatic avifauna observations made from boat</li> </ul> </li> <li>○ Field campaign in the area of the CP 07- Seimeni area (10, 11 April): <ul style="list-style-type: none"> <li>✓ Aquatic avifauna observations</li> </ul> </li> <li>○ Field campaign in the area of the CP 04B - Ostrovul Fermecatu (08, 09 April): <ul style="list-style-type: none"> <li>▪ Shore aquatic avifauna observations</li> <li>▪ Aquatic avifauna observations made from boat</li> </ul> </li> <li>○ Field campaign in the area of the CP 04A - Ceacâru island (07, 08 April): <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> </ul> </li> <li>○ Field campaign in the area of the CP 03B - (04 April): <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> </ul> </li> <li>○ Field campaign in the area of the CP 03A (05, 06 April): <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> </ul> </li> <li>○ Field campaign in the area of the CP01 and CP02 - Epurașu isle (01- 03 April): <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Shore aquatic avifauna observations</li> </ul> </li> <li>○ Field campaign in the area of Natura2000 ROSCI0022 „Canaralele Dunării” and ROSPA0039 „Dunăre Ostroave” (zona CP02,03,04,07): <ul style="list-style-type: none"> <li>▪ Aquatic avifauna observations made from boat</li> <li>▪ Shore aquatic avifauna observations</li> </ul> </li> </ul> <p>Bald eagle checking (<i>Haliaeetus albicilla</i>) in CP02</p>	<ul style="list-style-type: none"> <li>- Observation sheets</li> <li>- Data</li> <li>- Images</li> <li>- Species lists</li> </ul>
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪ Participation at the working team meetings, in order to establish the algorithms of the data's processing</li> <li>▪ Participation at the accomplishment of the Monthly Report no. 24 (chapters G and H)</li> <li>▪ Program proposal for the next activities</li> </ul>	Monthly Report no 24

Expert,  
JOZSEF SZABO

Project Leader,  
PhD eng DEÁK György



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### 6.3.14. Expert position: ANTHROPIC IMPACT MONITORING EXPERT - AMBRUS LASZLO (environmentalist 1)

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (15-18.04.2013)</b>	<ul style="list-style-type: none"> <li>○ field campaign to establish fix and mobile noise and emissions' sources, in CP01, CP02, CP10</li> <li>○ Checking the building site, including the materials used by constructor</li> <li>○ Field campaign in order to establish the anthropic level in the area of the building site</li> <li>○ Settlement's checking</li> </ul>	<ul style="list-style-type: none"> <li>- data</li> <li>- images</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>○ Participation at the working team meeting in order to establish the processing algorithm of data ;</li> <li>○ Contribution to the Monthly Report no. 24</li> <li>○ Program proposal for the next activities</li> </ul>	Monthly Report no 24

Expert,  
AMBRUS Laszlo

Project Leader,  
PhD eng. DEÁK György



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**6.3.15. Expert position: EVALUATION/ MONITORING IMPACT ON BIODIVERSITY- Zaharia Tania (ecologist 2)**

**MONTHLY REPORT  
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NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ANTHROPIC IMPACT MONITORING on BiODIVERSITY (8-12.04.2013)</b>	Observations on spring migration and avifauna nestle for Natura 2000 biodiversity study <ul style="list-style-type: none"> <li>○ Field campaign in Natura 2000 „Canaralele Dunării” (ROSPA0039) from the CP 01, CP02, CP03, CP04, CP07</li> <li>○ Field campaign in Natura 2000 „Dunăre Ostroave” (ROSPA0039) from the CP01, CP02, CP03, CP04</li> </ul> Field observations in order to establish building sites’ influence on avifauna.	<ul style="list-style-type: none"> <li>- date</li> <li>- fotografii</li> <li>- liste de specii</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>○ Contribution to the accomplishment of the monthly report no. 24</li> </ul>	Monthly report no 24

**Expert,  
PhD eng. Zaharia TANIA**

**Project Leader,  
PhD eng. DEÁK György**



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### 6.3.16. Expert position: EXPERT ASSESSOR OF THE MONITORING RESULTS - Csanyi Bela

## MONTHLY REPORT 1 - 30 April 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Preparing data for Intermediate Report no. 5	Primary data regarding aquatic and terrestrial ecosystems	
2	Aquatic and terrestrial ecosystems data processing	Primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration	Intercorrelations between abiotic and biotic determinants	Correlation functions

Expert assessor,  
PhD CSANYI Bela

Project Leader,  
PhD eng. DEÁK György



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GUVERNUL ROMÂNIEI  
MINISTERUL TRANSPORTURILOR  
ȘI INFRASTRUCTURII



Institutul Național de Cercetare-Dezvoltare  
pentru Protecția Mediului



Instrumente Structurale  
2007-2013



PROGRAMUL OPERATIONAL SECTORIAL TRANSPORT

**TRANS**

Mobilitate în România. Conexiuni cu Europa.

**Project:** MONITORING THE ENVIRONMENTAL IMPACT OF THE WORKS REGARDING THE IMPROVING OF THE NAVIGATION CONDITIONS ON THE DANUBE RIVER BETWEEN CALARASI AND BRAILA, km 375-175  
*PHASE II*

MONTHLY REPORT NO. 24: 1 -30 April 2013

### 6.3.17 EXPERT 3D MODELLING - PhD Professor HELMUT HABERSACK

## MONTHLY REPORT 1 - 30 April 2013

No	ACTIVITY	DESCRIPTION	RESULTS
1.	Datasets analysis for modelling	Details on water flow modelling were analysed under certain representative conditions in areas of critical points CP01 and CP02, based on the data from INCDPM	Setting up entry data
2.	Data adding up for modelling	New data were obtained from measurements under high water discharges on the Danube	Setting up data for water flow model
3.	Tests for modelling the mixed transport of non-cohesive sediments in the water bed in CP10	Tests were performed on components of Delft3D model, also considering carrying along the sediments from the water bed in water flow and their transport in suspensions and following the study of the components functions under the Danube conditions in CP10	Setting up data files for modelling of the mixed transport of water bed sediments in CP10
4.	Other activities	Participation in drawing up of specific chapter in Report no 24 (3D Numeric Modelling)	Report 24
		Participation in the consortium meeting on 18-19.04.2013 in INCDPM Bucharest, on the status of 3D modelling	

**Expert,  
PhD Helmut HABERSACK**

**Project Leader,  
PhD eng. DEÁK György**