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**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. 28: 1 -31 August 2013*

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## **ANNEX 6.3. ACTIVITY REPORTS EXPERTS**



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**PHASE II**

MONTHLY REPORT NO. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 28	<ul style="list-style-type: none"> <li>○ Covering breviary problem according to AFDJ Galati guidelines</li> </ul>	Monthly Report no 28
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 and checking of the field monitoring activity	<ul style="list-style-type: none"> <li>○ Coordination of field teams to accomplish the intensive measurements and to test the determinations of sturgeons' swimming velocity</li> </ul>	
5	Coordination of project's implementing team and permanent monitoring of the activities proposed for the reporting period	<ul style="list-style-type: none"> <li>○ Field visits to monitor the activities</li> <li>○ Working meetings</li> </ul>	
6	Approval of experts' monthly activity reports		
7	Coordination of 5th Interim Report		
8	Documents' checking carried out for the 28 <sup>th</sup> month of projects' implementation		
9	Elaboration of the activities' program for the period of (1 - 30 Spetember 2013)		

Project leader,  
PhD eng. Deák György



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PROGRAMUL OPERATIONAL NAȚIONAL TRANSPORT  
**TRANS**  
Mobilitate în România. Conexiuni cu Europa.

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*PHASE II*

MONTHLY REPORT NO. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 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 (27.08.2013; 29.08.2013)</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> <li>▪ Participation at the Interim Report, no.5</li> </ul>	

Expert,  
PhD eng. Gina GHIȚĂ

Project leader,  
PhD eng. DEÁK György



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Instrumente Structurale  
2007-2013



PROGRAMUL OPERATIONAL NAȚIONAL TRANSPORT  
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*PHASE II*

MONTHLY REPORT NO. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 27 <sup>th</sup> campaign (7,8,12,13,26,27.08.2013)	For the main CP: 01, 02, 10	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no. 25 (7,8,12,13,26,27.08.2013)	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	Participation at the meetings of the project's team in order to plan the future activities  Contribution to the accomplishment of the 28 <sup>th</sup> monthly report (Air and Noise monitoring)  Contribution to the 5 <sup>th</sup> Interim Report	Monthly Report no. 28

Expert,  
PhD chem. Adriana Borș

Project Leader,  
PhD eng. DEÁK György



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**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. 28: 1 -31 August 2013

### 6.3.4 Expert position: ICHTYOLOG 1 EXPERT- Sturgeons and barbell - Adrian IONAȘCU

## MONTHLY REPORT 1 - 31 August 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Sturgeons and barbell migration monitoring	Sturgeons and barbell migration monitoring using VR2W submersible automatic stations, installed	Recordings
2.	Additional stations installation on Bala branch, in dam's area	12 VR2W submersive automatic stations installation to tests' accomplishment	
3.	Experimental tests to determine sturgeons' movement velocity on bottom sill on Bala branch	Experimental tests using DK-PRB-01U monitoring and controlling system to determine sturgeons' movement velocity in bottom sill on Bala branch	Report
4.	Other activities	Contribution to the accomplishment of the 28 <sup>th</sup> Monthly Report  Contribution to the 5 <sup>th</sup> Interim Report	

Expert,  
PhD biol. Adrian Ionașcu

Project Leader,  
PhD eng. DEÁK György



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Instrumente Structurale  
2007-2013



PROGRAMUL OPERATIONAL NAȚIONAL 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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Scientific fishing (21 - 24 august 2013)	- Electric scientific fishing in the shore area, CP01, 02, )3A, 03B, 04A 04B, 07, with fishing sessions duing daytime and night time  - Biometric measurements on the fish material sampled	Measurements results
2.	Data analysis	Analysis of the biometric data, previously obtained	
3.	Other activities	Contribution to the accomplishment of the 28 <sup>th</sup> Monthly Report	Report

Expert,  
Istvan FALKA

Project Leader,  
PHD eng. György DEÁK



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PROGRAMUL OPERATIONAL NAȚIONAL TRANSPORT  
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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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations, August 2013	Statistical processing of level, temperature and turbidity data recorded in August 2013 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 28	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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**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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (02; 05-07.08; 12-14.08; 20-22.08;27-28.08.2013)	Single-beam bathymetric measurements in the critical points and the monitoring sections.  Intensive single-beam bathymetric measurements on the profiles of intensive and controlling monitoring in Bala bed layer.  Multi-beam bathymetric measurements in CP01 and 10	Raw and processed bathymetric data, transversal bathymetric sections
2.	MONITORING CAMPAIGN (02; 05-07.08; 12-14.08; 20-22.08; 27-28.08.2013)	Flow and velocity measurements in the critical points and the monitoring sections. Flow and velocity measurements on the profiles of intensive and controlling monitoring in Bala bed layer	Velocity and raw flows data
3.	MONITORING CAMPAIGN (02; 05-07.08; 12-14.08; 20-22.08;27-28.08.2013)	Weekly water velocity measurements on 5 transversal sections in the right of the automatic monitoring stations of turbidity and level, CP01	Raw velocity data
4.	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 28	Hydromorphology chapter and Annex 6.5
		Development of a program proposal for the period of 1 - 30 September 2013	Program

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

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





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PROGRAMUL OPERATIONAL NAȚIONAL 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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Preparation of phytoplankton samples taken within 30-31 July 2013 for microscopi analysis</li> <li>▪ Microscopic identification of the individuals wiyhin the phytoplankton for the samples taken from the main and secondary critical points</li> <li>▪ Quantitative microscopic analysis of the algae unities within the phytoplankton</li> </ul>	Results on the quality data
2.	<b>DATA PROCESSING AND ANALYSE</b>	<ul style="list-style-type: none"> <li>▪ Accomplishment of phytoplankton and macrophytes species list identified in the samples</li> <li>▪ Density's and biomass computation for phytoplankton samples</li> <li>▪ Saprobe index computation and Simpson diversity index for phytoplankton samples</li> <li>▪ Density's and biomass computation for aquatic macrophytes</li> <li>▪ Results' interpretation and graphic representation of quality data resulted from phytoplankton analysis</li> </ul>	Preliminary activities of the quality indicators
3.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Elaboration of the monthly Report no.28- aquatic flora and fauna monitoring chapter (excepting ichtyofauna)</li> </ul>	Monthly Report no. 28 - Chapter F

Expert,  
Biologist Florica Marinescu

Project Leader,  
PhD eng. DEÁK György



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PROGRAMUL OPERATIONAL NAȚIONAL TRANSPORT  
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**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. 28: 1 -31 August 2013

### 6.3.9 Expert position: ZOOPLANKTON EXPERT - Fetecău Maria

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>Preparation of samples for microscopic analysis</li> <li>Miscroscopic determination of species from zooplankton composition</li> <li>Accomplishment of zooplankton species list</li> <li>Microscopic computation of zooplanktonic species (quantitative analysis)</li> </ul>	<ul style="list-style-type: none"> <li>60 unities of analysed samples</li> <li>Results on quality data</li> </ul>
2.	DATA ANALYSIS AND PROCESSING	<ul style="list-style-type: none"> <li>Indicators computation: number of species and diversity specific index</li> <li>Density's and biomass computation of zooplanktonic species</li> <li>Graphic representation of quality data resulted from zooplanktonic analysis</li> </ul>	<ul style="list-style-type: none"> <li>Preliminary values of the quality indicators</li> </ul>
3.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>Contributions to the Monthly Report no. 28</li> </ul>	Monthly Report no 28-Chapter F - zooplankton subchapter

Expert,  
Fetecău Maria

Project Leader,  
PhD eng. DEÁK György



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PROGRAMUL OPERATIONAL NAȚIONAL 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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>Additional assortment of benthic macroinvertebrates samples in campaign 30- 31.07.2013 to select the benthic individuals and to accomplish the future investigations</li> <li>Qualitative and quantitative analysis of the benthic macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>40 units of samples</li> <li>Results on quality data</li> </ul>
2.	DATA ANALYSIS AND PROCESSING	<ul style="list-style-type: none"> <li>Abundance computation and numerical density on taxonomic groups of the benthic macroinvertebrates</li> <li>Shannon diversity index computation for macroinvertebrates samples</li> <li>Accomplishment of saprobiological water quality indicators list</li> <li>Graphic representation of quality data resulted from the analysis of macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>Preliminary values of the quality indicators</li> </ul>

Expert,  
Luiza FLOREA

Project Leader,  
PhD eng. DEÁK György



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pentru Protecția Mediului



Instrumente Structurale  
2007-2013



PROGRAMUL OPERATIONAL NAȚIONAL 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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 august 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (7, 13, 27.08.2013)</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. 28</li> <li>○ Program proposal for the next activities</li> </ul>	Monthly Report no 28

**Expert,  
AMBRUS Laszlo**

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



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pentru Protecția Mediului



Instrumente Structurale  
2007-2013



PROGRAMUL OPERATIONAL NAȚIONAL 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. 28: 1 -31 August 2013

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

## MONTHLY REPORT 1 - 31 August 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Preparing data for Interim Report no. 6	Primary data regarding aquatic and terrestrial ecosystems	Centralising tables
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 ,  
PhD CSANYI Bela

Project Leader,  
PhD eng. DEÁK György



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2007-2013



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**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. 28: 1 -31 August 2013

### 6.3.17 Poziție expert: EXPERT MODELARE 3D - prof.dr. HELMUT HABERSACK

## MONTHLY REPORT 1 - 31 August 2013

NR. CRT	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data completion within works' accomplishment	The results of the measurements made within works accomplishment on Danube have offered new data sets for modeling	Data sets' preparation for the hydrodynamic modeling
2.	Preparation of Delft 3D an RSim Z-model and $\sigma$ model; results' analysis	Computations with Z- model and $\sigma$ -model based on Delft3D discretization options with horizontal layers have been made. The results have been analysed in a comparative manner to those of a Delft3D usual for the CP01; for CP01 and 02 Delft3D and Rsim models have been made.	Preparation of z-model and $\sigma$ -model Delft3D at CP10 and Delft3D and Rsim at CP01 and 02
3.	Preparation of a unhydrostatic model based on a Delft3D model	Computations have been made and the results obtained with an unhydrostatic model for CP01, 02, 10 have been analysed	Files' preparation for an undydrostatic model Delft3D at CP01, 02, 10
4.	Other activities	Participation in the elaboration of Report 28 Contribution in Interim Report 5	Report 28

**Expert,**  
**Dr. Helmut HABERSACK**

**Project Leader,**  
**Dr. ing. DEÁK György**