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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. 37: 1 – 31 May 2014*

## **ANNEX 6.3.**

### **EXPERTS' ACTIVITY REPORTS**



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

## MONTHLY REPORT 1 - 31 May 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 37	<ul style="list-style-type: none"> <li>○ Covering issues according to AFDJ Galati guidelines</li> </ul>	Monthly Report 37
2	Communication of the project phase and results to the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> <li>○ Elaboration of the addresses sent to 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 the monitoring stations for sturgeons</li> <li>○ Checking the sampling campaigns</li> <li>○ Checking the building site activities</li> </ul>	
4	Coordination of the project implementation team and permanent monitoring of the progress of proposed activities for the reporting period	<ul style="list-style-type: none"> <li>○ Field visits for activities monitoring</li> <li>○ Working meetings</li> </ul>	
5	Approval of monthly activity reports of the experts		
6	Checking and approving the documents elaborated in 37 <sup>th</sup> month of project activity		
7	Coordinate the completion of Interim Report 8		
8	Elaboration of the project activities program for the next period (1 - 30 June 2014)		

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



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

## MONTHLY REPORT 1 - 31 May 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ORGANISING SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS</b>	<ul style="list-style-type: none"> <li>▪ Preparation of sampling recipients (differently, according to chemical indicators) for soil, water and sediments;</li> <li>▪ Preparation of reagents to fix water samples in field conditions;</li> <li>▪ Laboratory and field AMC's 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 FOR WATER AND SEDIMENTS</b> (18.05.2014) (28.05.2014)	<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>▪ For each water and sediment sample has completed a registration bulletin for the sampling activity;</li> <li>▪ Field analysis were performed (pH, temperature, dissolved oxygen, turbidity) regarding water quality;</li> <li>▪ Water samples have been fixed according to actual standards to determine indicators in the laboratory</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>▪ Conducting the specific standard procedures for analytical data quality assurance.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Preliminary data regarding water and sediment quality</li> </ul>
4.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Participation at the monthly Report 37</li> <li>▪ Participation at Interim Report 8</li> </ul>	

Expert,  
PhD eng. Gina GHIȚĂ

Project leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 May 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	MEASUREMENTS CAMPAIGN FOR NOISE LEVEL, 37 <sup>TH</sup> CAMPAIGN (8, 20.05.2014)	For main critical points (01, 02 and 10)	Punctual values of noise level
2.	MEASUREMENTS/SAMPLING CAMPAIGN FOR AIR, CAMPAIGN NO. 34 (8, 20.05.2014)	For main critical points (01, 02 and 10)	Preliminary values of the air quality indicators
3.	DATA PROCESSING	Processing of the data measured in the field	Analysis bulletins
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>○ Participation at the meetings of the project team, in order to plan the future activities</li> <li>○ Contribution to the 37<sup>th</sup> monthly report (Chapters: Air and Noise Monitoring)</li> </ul>	Monthly Report no.37

Expert,  
PhD chem. Adriana Borș

Project Leader,  
PhD eng. DEÁK György



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### 6.3.4 Expert position: ICHTYOLOGIST 1 EXPERT - Sturgeons and barbell- Adrian Ionașcu

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MARKING FOR STURGEONS</b> (05, 06, 08, 11, 13.05.2014)	12 sturgeon have been captured and marked with ultrasonic and spaghetti “anti-poaching” tags.	marked fish
2.	<b>MARKING FOR BARBELL</b> (06, 08, 13.05.2014)	5 barbells have been captured and marked with ultrasonic and spaghetti “anti-poaching” tags.	marked fish
3.	<b>STURGEONS AND BARBELL MIGRATION MONITORING</b>	Monitoring the sturgeon and barbell migration with 2 methods: - with monitoring systems fixed in certain locations - active with a reception station VR2W and River Surveyor M9 device	recordings
4.	<b>VELOCITIES MEASUREMENTS IN POTENTIAL BREEDING AREAS ON BORCEA BRANCH</b>	Obtaining the data related to velocities in potential breeding areas on Borcea branch at km 4, km 57 and km 61	measurements results
5.	<b>MONITORING WITH DIDSON CAMERA</b>	Filming carried out in bottom sill area at CP01 and CP10	Filming
6.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>• Maintenance for monitoring systems</li> <li>• Contribution to the Monthly Report no.37</li> <li>• Contribution to the Interim Report 8</li> </ul>	

Expert,  
PhD biol. Adrian Ionașcu

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Scientific fishing for Alosa adult specimens 15÷17.05.2014	Have been made nets for scientific fishing in critical points CP02, CP03, CP04 and CP07	Obtaining the biometrical data, determining the age and distribution by genders for captured specimens
2.	Scientific fishing for Alosa larvae with ichtioplanktonic nets 15÷17.05.2014	Have been made scientific fishing with ichtioplanktonic nets in critical points CP02, CP03, CP04 and CP07	Relative abundance of the larvae
3.	Other activities	Contribution to the Monthly Report no.37	Monthly Report

Expert,  
PhD. biol. FALKA Istvan

Project Leader,  
PhD eng. DEÁK György



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### 6.3.6. Expert position: HYDROLOGY EXPERT - PhD eng. George POTERAȘ

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in May 2014	Statistical processing of level, temperature and turbidity data recorded in May 2014 in 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 37	Data processing and interpretation	Hydrology subchapter elaboration for the hydromorphological monitoring activity and Annex 6.5

Expert,  
PhD eng. George POTERAȘ

Project Leader,  
PhD eng. Deák György



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

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN</b> (06, 07, 08, 09, 12, 13, 14, 15, 16, 20, 21, 22, 26, 27, 28.05.2014)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
2.	<b>MONITORING CAMPAIGN</b> (06, 07, 08, 09, 12, 13, 14, 15, 16, 20, 21, 22, 26, 27, 28.05.2014)	Multi-beam bathymetric measurements in critical points CP01 and CP02	Raw and processed bathymetric data
3.	<b>MONITORING CAMPAIGN</b> (06, 07, 08, 09, 12, 13, 14, 15, 16, 20, 21, 22, 26, 27, 28.05.2014)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01- CP02	Unprocessed velocity data
4.	<b>OTHER ACTIVITIES</b>	Continuation of flow and velocity measurements processing from previous months	Processed velocity and flow data Velocities sections
		Contributions to the Monthly Report no 37	Hydromorphology chapter and Annex 6.5
		Contributions to Interim Report 8	Hydromorphology chapter and Annexes
		Programme proposition drafting for the period 1 - 30 June 2014	Programme

Expert,  
PhD eng. Gh. Viorel UNGUREANU

Project Leader,  
PhD eng. DEÁK György





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

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR MACROPHYTES	<ul style="list-style-type: none"> <li>▪Preparing the sampling recipients and fixation reagents for samples „in field” conditions</li> <li>▪Preparing the necessary documents for „in field” samples registration</li> </ul>	Ensure the optimal conditions for conducting the sampling campaign
2.	SAMPLING CAMPAIGN FOR MACROPHYTES (18.05.2014)	<ul style="list-style-type: none"> <li>▪Specific sampling activities for macrophytes in CP 03A, CP 03B, CP 04A, CP 04B, CP 07</li> <li>▪„In field” determination for macrophytes species</li> <li>▪Collecting and preserving for macrophytes which were not determined on the field</li> <li>▪Sampling bulletins completion for macrophytes samples</li> </ul>	<ul style="list-style-type: none"> <li>- 20 macrophytes samples</li> <li>- sampling bulletins</li> </ul>
3.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> <li>▪Establishing a list of phytoplankton species identified in samples</li> <li>▪Calculation of density and biomass for phytoplankton samples</li> <li>▪Calculation of saprobic index and Simpson diversity index for phytoplankton samples</li> <li>▪Interpretation of the results and graphic representation of quality data resulting from phytoplankton analysis</li> </ul>	Values of quality indicators
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪Participation in elaboration of the Monthly Report no. 37 - Chapter: Monitoring of aquatic flora and fauna (except for ichthyofauna)</li> </ul>	Monthly Report no.37 - Chapter F

Expert,  
Dr.biologist Florica MARINESCU

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> <li>Preparing the sampling recipients</li> <li>Preparing fixation reagents for samples „in field” conditions</li> <li>Preparing the necessary documents for „in field” samples registration</li> </ul>	Ensure the optimal conditions for conducting the sampling campaign
2.	SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (18.05.2014)	<ul style="list-style-type: none"> <li>Specific sampling activities for aquatic macroinvertebrates in critical points 03A, 03B, 04A, 04B, 07</li> <li>verification of GPS coordinates compliance for each sampling point</li> <li>fixing, samples labeling</li> <li>completing the sampling bulletins for aquatic macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>20 sample units</li> <li>sampling bulletins</li> </ul>
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>additional sorting for benthic macroinvertebrates samples collected for organisms selection and perform further investigations</li> <li>Qualitative and quantitative analysis for collected samples of benthic macroinvertebrates</li> </ul>	<ul style="list-style-type: none"> <li>20 sorted sample units</li> </ul>
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> <li>Calculation of numerical abundance and density on taxonomic groups of benthic macroinvertebrates</li> <li>Shannon-Wiener diversity index calculation for macroinvertebrates samples</li> <li>Drawing up the list of saprobiological water quality indicators</li> <li>Graphical representation of quality data from macroinvertebrates samples analysis</li> </ul>	<ul style="list-style-type: none"> <li>preliminary values for 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 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<p><b>AVIFAUNA MONITORING CAMPAIGN SPRING SEASON (07-19.04.2014)</b></p>	<ul style="list-style-type: none"> <li>○ Field trip in CP01               <ul style="list-style-type: none"> <li>▪ Linear trails evaluation (transects) and in observation points (point count)</li> <li>▪ aquatic and migratory avifauna observations from the shore</li> <li>▪ aquatic avifauna observations from the boat</li> </ul> </li> <li>○ Field trip in CP 02               <ul style="list-style-type: none"> <li>▪ Linear trails evaluation (transects) and in observation points (point count)</li> <li>▪ aquatic and migratory avifauna observations from the shore</li> <li>▪ aquatic avifauna observations from the boat</li> </ul> </li> <li>○ Field trip in CP 10               <ul style="list-style-type: none"> <li>▪ Linear trails evaluation (transects) and in observation points (point count)</li> <li>▪ aquatic and migratory avifauna observations from the shore</li> <li>▪ aquatic avifauna observations from the boat</li> </ul> </li> <li>○ Field trip in CP 03               <ul style="list-style-type: none"> <li>▪ Linear trails evaluation (transects) and in observation points (point count)</li> <li>▪ aquatic and migratory avifauna observations from the shore</li> <li>▪ Field trip in aquatic avifauna observations from the boat</li> </ul> </li> <li>○ Field trip in CP 04               <ul style="list-style-type: none"> <li>▪ Linear trails evaluation (transects) and in observation points (point count)</li> <li>▪ aquatic and migratory avifauna observations from the shore</li> <li>▪ aquatic avifauna observations from the boat</li> </ul> </li> <li>○ Field trip in CP 07               <ul style="list-style-type: none"> <li>▪ Linear trails evaluation (transects) and in observation points (point count)</li> <li>▪ aquatic and migratory avifauna observations from the shore</li> <li>▪ aquatic avifauna observations from the boat</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ observation sheets;</li> <li>○ data;</li> <li>○ images;</li> <li>○ species lists</li> </ul>
2.	<p><b>OTHER ACTIVITIES</b></p>	<ul style="list-style-type: none"> <li>▪ Participation in elaboration of the Monthly Report no. 37 (Chapters G and H)</li> <li>▪ Participation in elaboration of the Interim report 8</li> <li>▪ Elaboration of the program proposal for next activities.</li> </ul>	<p>Monthly Report no.37</p>

Expert,  
JOZSEF SZABO

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (01, 14.04.2014)</b>	<ul style="list-style-type: none"> <li>○ field campaign in CP01, CP02, CP10 areas to establish fixed and mobile sources of noise and emissions</li> <li>○ field campaign in order to establish the anthropic level in the area of the building site</li> <li>○ checking the building site, including the materials used by constructor</li> <li>○ sites verification</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>○ Contribution to the Monthly Report no. 37</li> <li>○ Program proposal for the next period activities</li> </ul>	Monthly Report no. 37

Expert,  
AMBRUS Laszlo

Project Leader,  
PhD eng. DEÁK György



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### 6.3.15. Expert position: Impact on biodiversity assessment/monitoring - ZAHARIA Tania (ecologist 2)

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ANTHROPIC IMPACT ON BIODIVERSITY MONITORING</b> (05-09.05; 12-16.05.2014)	Observations of the anthropic impact on avifauna from Natura 2000 sites: <ul style="list-style-type: none"> <li>○ Field trip in critical points areas and at Iortmac, Vederoasa, Dunăreni, Oltina, Baciului and Lacul Sărat.</li> </ul> Field observations in order to establish the influence of the construction sites on avifauna.	<ul style="list-style-type: none"> <li>- data</li> <li>- images</li> <li>- lists of species</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>- Participation in elaboration of the Monthly Report no. 37</li> <li>- Participation in elaboration of the Interim report 8</li> </ul>	Monthly Report no. 37 Interim Report 8

Expert,  
PhD Tania ZAHARIA

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 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. 37: 1 – 31 May 2014

### 6.3.16. Expert position: EXPERT ASSESSOR OF THE MONITORING RESULTS - Marian TUDOR

## MONTHLY REPORT 1 - 31 May 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Interim Report 8	Data regarding aquatic and terrestrial ecosystems	Centralization tables
2	Data processing regarding aquatic and terrestrial ecosystems	Establishing the primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions

Expert assessor,  
PhD Marian TUDOR

Project Leader,  
PhD eng. DEÁK György



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### 6.3.17 Expert position: 3D MODELING EXPERT- prof.PhD HELMUT HABERSACK

## MONTHLY REPORT 1 - 31 May 2014

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preliminary estimates for Delft3D modelling with additional option in bottom sill area at critical point 01	Modelling activities took into account the improvement of Delft3D model to better take into account the particularities of the riverbed after the start of bottom sill construction on Bala branch. Simulations were performed with Delft3D models, in order to use an additional option of structure, which allows the improvement of the data model based on local measurements.	Simulation results on upstream and downstream sector from the bottom sill.
2	Results analysis locally on the Danube and at bottom sill for the simulation with Delft3D model for post-construction situation at CP 10	Have been analyzed the local results of the simulations with data after hydrotechnical constructions completion, for a situation estimation regarding the main current interaction with Danube riverbed and to compare the numerical results with monitoring results at bottom sill.	Local values distribution at critical point 10.
3.	Data completion based on the measurements.	Measurements results' processings contributed to the completion of data sets for modeling, with values in over medium flows, on Danube	Data sets preparation, based on measurements.
4.	Other activities	Participation at the Monthly Report no. 37 Participation at Interim Report 8 elaboration	Monthly Report no. 37

Expert,  
phD Helmut HABERSACK

Project Leader,  
PhD eng. DEÁK György