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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. 51: 1 – 31 July 2015**

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## ANNEX 6.3.

### EXPERTS' ACTIVITY REPORTS



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

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.51	<ul style="list-style-type: none"> <li>○ Covering issues according to AFDJ RA Galati guidelines</li> </ul>	Monthly Report 51
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 (09.07.2015)</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 month 51 of project activity		
7	Coordinate the completion of Interim Report 11		
8	Elaboration of the project activities program for the next period (1 - 31 August 2015)		

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 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS	<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 for water samples fixation 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.	SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS (16.07.2015)	<ul style="list-style-type: none"> <li>▪ Water and sediments sampling from CP 01 and CP 02</li> <li>▪ The compliance to geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples has been labelled;</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>▪ 35 water samples</li> <li>▪ 14 sediment samples</li> </ul>
3.	PHYSICAL- CHEMICAL LABORATORY ANALYSIS	<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.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪ Participation at the Monthly Report 51</li> <li>▪ Participation at the Interim Report 11</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 (chemist2)

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, campaign no. 51 (9,15.07.2015)	For main critical points CP 01 and CP 02	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 48 (9,15.07.2015)	For main critical points CP 01 and CP 02	Preliminary values of 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 implementation team, in order to plan and conduct future activities</li> <li>○ Contribution to the Monthly Report no. 51 (Chapters: Air and Noise Monitoring)</li> <li>○ Contribution to Interim Report 11</li> </ul>	Monthly Report no 51

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 - CRISTEA VICTOR

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Scientific fishing for sturgeon and barbell	Based on special permits release by ANPA, have been performed fishing activities with nets for capturing and tagging sturgeon and barbell species specimens	No sturgeon or barbell specimens have been captured for tagging
2	Velocities measurements in habitats: CP01 - 14.07.2015 CP10 - 20.07.2015	Have been made measurements in order to determine velocities in sturgeons' feeding habitats, from CP01 and CP10 areas Have been made measurements in order to determine velocities in barbell feeding/breeding areas, for CP01 and CP10 areas	Measurements
3	Benthos sampling from habitats of interest CP01 - 14.07.2015 CP10 - 15.07.2015	Have been collected benthos samples from barbell habitats in CP01 and CP10	Sampling bulletins
4	Data downloading: CP01 - 20.07 CP10 - 15.07	Have been downloaded data from the monitoring systems.	Data obtaining from the monitoring systems
5	Other activities	Contribution to Monthly Report no. 51 Data processing for Interim Report 11	Reports

Expert sturgeons' ichthyologist,  
PhD eng. Victor CRISTEA

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 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Scientific fishing in CP01, CP02 areas (14, 15, 20, 21, 22,23,24.07.2015)	Have been made transects for electrical fishing on shore, on Bala branch upstream and downstream from the bottom sill; Old Danube km 345-343, km 342-340, km 335-333; Epurașu branch at the entry, median and exit area.	- species distribution, abundance and biomass of captured specimens
2.	Other activities	Contribution to the Monthly Report no. 51 Contribution to Interim Report 11	Report

Expert ihtilog, other fish species,

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 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in July 2015	Statistical processing of level, temperature and turbidity data recorded in July 2015, in automatic stations from CP 01, 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. 51	Data processing and interpretation.	Hydrology subchapter elaboration for the hydro-morphological 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 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN</b>	Single-beam bathymetric measurements in main critical points and on monitoring sections.	Primary and processed bathymetric data, transversal bathymetric profiles
2.	<b>MONITORING CAMPAIGN</b> (01, 02, 03, 06, 09, 14, 15, 20, 21, 27.07.2015)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level in critical points CP01-CP02	Unprocessed velocity data
3.	<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. 51	Hydro-morphology Chapter and Annex 6.5
		Schedule drafting for 1 - 31 August 2015 period	Schedule
		Contribution to Interim Report 11	Chapter hydromorphology and Annexes

Expert,  
PhD eng. Gh. Viorel UNGUREANU

Project Leader,  
PhD eng. DEÁK György





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

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES	<ul style="list-style-type: none"> <li>▪Preparing sampling containers for phytoplankton samples</li> <li>▪Preparation of reagents for samples fixing 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.	PERFORMING SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES (16 -17.07.2015 - phytoplankton; 21.07.2015 - macrophytes)	<ul style="list-style-type: none"> <li>▪Specific sampling activities for phytoplankton and macrophytes in CP 01, 02, 10, 03A, 03B, 04A, 04B, 07</li> <li>▪In field determination of macrophytes species</li> <li>▪Collecting and preserving for macrophytes that was not determined on site</li> <li>▪Samples fixing according to standards in force</li> <li>▪Sampling bulletins completion for phytoplankton and macrophytes</li> </ul>	<ul style="list-style-type: none"> <li>- 11 phytoplankton average samples (left bank, centre, right bank)</li> <li>- 40 macrophytes samples</li> <li>- sampling bulletins</li> </ul>
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>▪Microscopical identification for organisms that are part of phytoplankton</li> <li>▪Quantitative microscopical analysis for algal units of phytoplankton</li> </ul>	Results regarding quality data
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> <li>▪drawing up the list of phytoplankton species identified in collected 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>▪preparing the list of macrophytes species, identified in each critical point</li> <li>▪calculation of density and biomass for aquatic macrophytes</li> </ul>	Values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪Contribution to Monthly Report no. 51 - chapter „Aquatic flora and fauna monitoring (except for ichthyofauna)</li> <li>▪Contribution to Interim Report 11</li> </ul>	Monthly Report no. 51 - Chapter F Interim Report 11 - Chapter 2.1.7

**Expert,**  
PhD biologist Florica MARINESCU

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



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### 6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>- Data processing and analysis of lumbricides distribution in monitoring areas from CP01 and CP02</li> <li>- Contribution to Interim Report 11</li> </ul>	

Expert,  
ȘERBAN Cecilia

Project Leader,  
PhD eng. DEÁK György



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### 6.3.11 Expert Position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza FLOREA

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PERFORMING LABORATORY ANALYSIS	Qualitative and quantitative analysis for collected benthic macroinvertebrates samples, in 23-24.06.2015 campaign	▪ 25 analyzed samples
2.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> <li>• calculating numerical abundance and density of benthic macroinvertebrates taxonomic groups</li> <li>• Shannon-Wiener diversity index calculation for macroinvertebrates samples</li> <li>• drawing up a list of saprobe indicators of water quality</li> <li>• Graphic representation of data quality resulting from the analysis of macroinvertebrates samples</li> </ul>	▪ values of quality indicators

Expert,  
Luiza FLOREA

Project Leader,  
PhD eng. DEÁK György



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### 6.3.12. Expert Position: FLORA AND TERRESTRIAL VEGETATION EXPERT - Frink József Pál

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING MONITORING CAMPAIGN FOR TERRESTRIAL VEGETATION	Preparing logistics and timetable for achieving of phytosociological survey in permanent plots designated in 2012, for critical points mentioned in the Specifications, for this monitoring period.	Ensure optimal conditions for sampling campaign
2.	MONITORING CAMPAIGN FOR TERRESTRIAL VEGETATION (01, 02, 03, 06-10.07.2015)	Conducting the monitoring activities for vegetation characterization in critical points 01, 02, 10, 03A, 03B, 04A, 04B and 07.	Phytosociological survey in permanent plots
3.	OFFICE ACTIVITIES	Identification and verification of vegetal polymorphs taxons, hardly identifiable on the field, their introduction as well as of parameters registered in field, in the computerized database.	Phytosociological tables
4.	OTHER ACTIVITIES	Participation in developments of Monthly Report 51 - subchapter terrestrial flora	Monthly Report no. 51

Expert,  
Frink József Pál

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 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN FOR THE ANTHROPIC IMPACT</b> (08, 09, 14, 15.07.2015)	<ul style="list-style-type: none"> <li>○ field campaign in critical points CP01, CP02 areas to establish fixed and mobile sources of noise and emissions;</li> <li>○ field campaign in order to establish the anthropization level in the area of the construction site;</li> <li>○ verification of the construction site, including the materials used by constructor;</li> <li>○ sites verification;</li> </ul>	<ul style="list-style-type: none"> <li>- data</li> <li>- photos</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>○ Contribution to the Monthly Report no 51</li> <li>○ Contribution to the Interim Report no. 11</li> <li>○ Program proposal for the next period activities</li> </ul>	Monthly Report no. 51

Expert,  
AMBRUS Laszlo

Project Leader,  
PhD eng. DEÁK György



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### 6.3.15. Expert position: BIODIVERSITY IMPACT EVALUATION/MONITORING EXPERT-ZAHARIA Tania (ecologist 2)

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT ON BIODIVERSITY MONITORING (01, 02, 03, 06-08.07.2015)	<p>Observation regarding anthropic impact on avifauna in Natura 2000 sites:</p> <ul style="list-style-type: none"> <li>○ Field campaign in critical points area and dobrogean lakes.</li> </ul> <p>Observation in field, in order to establish construction sites influence on avifauna.</p>	<ul style="list-style-type: none"> <li>- data</li> <li>- photos</li> <li>- species list</li> </ul>
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>○ Contribution to the Monthly Report no 51</li> <li>○ Contribution to the Interim Report 11</li> </ul>	Reports

Expert,  
PhD. Tania ZAHARIA

Project Leader,  
PhD eng. Deák György



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

## MONTHLY REPORT 1 - 31 July 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Primary data processing for Interim Report 11	Data regarding to aquatic and terrestrial ecosystems	Centralization tables
2	Data processing related to aquatic and terrestrial ecosystems for Interim Report 11	Establishing the primary statistical values	Primary statistical parameters
3	Corroboration of the results for abiotic and biotic monitoring parameters for Phase Report	Establishing intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variation

Expert assessor,  
PhD Marian TUDOR

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. 51: 1 – 31 July 2015

### 6.3.17 EXPERT 3D MODELLING - prof.dr. HELMUT HABERSACK

## MONTHLY REPORT 1 - 31 July 2015

No	ACTIVITY	DESCRIPTION	RESULTS
1.	Sediment transport simulation under reference conditions	Sediment transport simulation during reference conditions with iSed at CP01 and CP02	Sediment simulations during reference conditions
2.	Update the riverbed morphology in CP01 and CP02	Processing activities for bathymetric multibeam data measured on the Danube and preparing the datasets for modelling	Prepare the geometry of riverbed for modelling, based on the bathymetric multibeam measurements in CP01 and CP02
3.	Other activities	Participation in elaboration of Monthly Report 51	Monthly Report 51

Expert,  
Dr. Helmut HABERSACK

Project coordinator,  
Dr. ing. DEÁK György