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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. 35: 1 - 31 March 2014*

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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 March 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 35	<ul style="list-style-type: none"> <li>○ Covering issues according to AFDJ Galati guidelines</li> </ul>	Monthly Report no.35
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 35 <sup>th</sup> month of project activity		
7	Coordinate the completion of Interim Report 7		
8	Elaboration of the project activities program for the next period (1 - 30 April 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 March 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 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 FOR WATER AND SEDIMENTS (08.03.2014) (27.03.2014)</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>▪ 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>▪ 100 water samples</li> <li>▪ 40 sediment samples</li> </ul>
3.	<b>SOIL SAMPLING CAMPAIGN (27.03.2014)</b>	<ul style="list-style-type: none"> <li>▪ Soil samples were collected from the CP 03 (A and B), CP 04 (A and B) and CP 07;</li> <li>▪ has verified the compliance with geographical coordinates for each sampling point;</li> <li>▪ samples have been labeled;</li> <li>▪ for each soil sample has been completed a registration bulletin;</li> </ul>	<ul style="list-style-type: none"> <li>▪ 20 soil samples</li> </ul>
4.	<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>
5.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Participation at the monthly Report 35</li> <li>▪ Participation at the Interim Report 7</li> </ul>	

Expert,  
PhD eng. Gina GHIȚĂ

Project leader,  
PhD eng. DEÁK György



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MONTHLY REPORT NO. 35: 1 - 31 March 2014

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

## MONTHLY REPORT 1 - 31 March 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 35 <sup>th</sup> campaign (4,22,26.03.2014)	For main critical points (01, 02 and 10) and secondary (03, 04, 07)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 32 (4,22,26.03.2014)	For main critical points (01, 02 and 10) and secondary (03, 04, 07)	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 35<sup>th</sup> monthly report (Chapters: Air and Noise Monitoring)</li> </ul>	Monthly Report no.35

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 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data downloading from the VR2W reception stations	Have been downloaded the recorded data from the stations in CP01, 02 and CP10.	Data downloading
2.	Sturgeons migration monitoring	<ul style="list-style-type: none"> <li>Monitoring the sturgeon migration with installed submersible automatic stations VR2W.</li> <li>Processing the data from VR2W submersible station recordings</li> </ul>	
3.	Scientific sturgeons fishing (19, 21, 24, 28, 30.03.2014)	Have been captured 5 sturgeons specimens and another 3 from Border Police. All have been tagged and released	8 tagged and released sturgeons
4.	Other activities	<ul style="list-style-type: none"> <li>Contribution to the Monthly Report no.35 and Interim Report 7</li> <li>Equipment preparation for spring migration season</li> <li>Preparation and submission of the documentation in order to obtain the permits for scientific fishing</li> </ul>	

Expert,  
PhD biol. Adrian Ionașcu

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 31 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in March 2014	Statistical processing of level, temperature and turbidity data recorded in March 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 35	Data processing and interpretation	Hydrology subchapter elaboration for the hydromorphological monitoring activity and Annex 6.5

Expert,  
eng. PhD 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 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (03, 04, 07, 10, 11, 12, 14, 17, 18, 21, 24, 25, 27.03.2014)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN (03, 04,07, 10, 11, 12, 14, 17, 21, 24, 25, 27.03.2014)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level, CP01	Unprocessed velocity data
3.	OTHER ACTIVITIES	Continuation of flow and velocity measurements processing from previous months	Processed velocity and flow data Velocities sections
		Contributions to the Monthly Report no 35	Hydromorphology chapter and Annex 6.5
		Development of a program proposal for next period 1 - 30 April 2014	Program

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 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION OF SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES	<ul style="list-style-type: none"> <li>▪Preparing the collecting containers for phytoplankton samples</li> <li>▪Fixation reagents preparation for “in field” samples</li> <li>▪Preparing the necessary documents for “in field” samples registration</li> </ul>	Ensuring the conditions for sampling campaign
2.	CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES (27.03.2014)	<ul style="list-style-type: none"> <li>▪Specific activities for phytoplankton samples collection in CP 03A, CP 03B, CP 04A, CP 04B, CP 07</li> <li>▪Samples fixation according to normatives for microscopic analysis in the laboratory</li> <li>▪Completing the sampling bulletins for phytoplankton</li> </ul>	<ul style="list-style-type: none"> <li>- 15 phytoplankton samples</li> <li>- sampling bulletins</li> </ul>
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>▪Preparing the phytoplankton samples collected for microscopic analysis</li> </ul>	
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪Participation in elaboration of the Monthly Report no. 35 - Chapter Monitoring of aquatic flora and fauna (except for ichthyofauna)</li> </ul>	Monthly Report no.35 - Chapter F

Expert,  
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 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OBSERVATION CAMPAIGN FOR LUMBRICIDES PRESENCE/ABSENCE (27.03.2014)	- have been monitored the presence/absence of lumbricides for soil samples collected from critical points locations: CP03 (A and B), CP04 (A and B) and CP07;	Observations regarding lumbricides presence/absence
2.	OTHER ACTIVITIES	- Preparing the observation campaign - Lumbricides distribution assessment in monitoring areas	

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 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES</b>	<ul style="list-style-type: none"> <li>Preparing the sampling containers</li> <li>Preparing the reagents for „in field” samples fixation</li> <li>Preparing the necessary documents for “in field” samples registration</li> </ul>	Ensure the optimal conditions for sampling campaign
2.	<b>SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES</b>  (08.03.2014)	<ul style="list-style-type: none"> <li>Specific activities for aquatic macroinvertebrates in critical points 03A, 03B, 04A, 04B, 07</li> <li>Verifying the compliance of GPS coordinates for each sampling point</li> <li>samples fixation, labeling</li> <li>Completing the sampling bulletins for aquatic macroinvertebrates</li> </ul>	<ul style="list-style-type: none"> <li>20 sample units collected</li> <li>Sampling bulletins</li> </ul>
3.	<b>LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>Benthic macroinvertebrates samples sorting, taken from sturgeons wintering holes in January 2014</li> <li>Qualitative and quantitative analysis of the benthic macroinvertebrates collected samples</li> </ul>	<ul style="list-style-type: none"> <li>20 sample units analysed</li> <li>Results on quality data</li> </ul>
4.	<b>DATA PROCESSING AND ANALYSIS</b>	<ul style="list-style-type: none"> <li>abundance and numerical density computation on taxonomic groups of benthic macroinvertebrates</li> <li>computation of Shannon- Wiener diversity index for macroinvertebrates samples</li> <li>listing saprobiological water quality indicators</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 quality indicators</li> </ul>

Expert,  
Luiza FLOREA

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 March 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (22.03.2014)</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. 35</li> <li>○ Program proposal for the next period activities</li> </ul>	Monthly Report no. 35

Expert,  
AMBRUS Laszlo

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 March 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 March 2014

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	3D modeling for the area of the main CP01	Rsim3D model's results have been analysed for the area of the main CP01. Delft3D modeling activities at a medium scale for the CP01, 02 are being carried out, using data sets measured from the end of 2013 and the beginning of 2014	Simulations' results
2.	Delft3D modeling activity for large Daube's sector, from Calarasi- Braila sector	The activities to accomplish the Delft3D at a large scale, have continued for the first part of Danube's Calarasi- Braila sector The model has been used to simulate bottom dams' effects from Bala branch, at the 3rd phase, without a covering layer.	Results of the simulations on some Danube's sectors
3.	3D modeling for the area of the main CP10	Using the Delft3D model, simulations for the study of the hydraulic parameters have been made in the area of the CP10, based on the data measured in March	Results of the simulations at the CP10
4.	Data completion based on the measurements	Data sets' completion for the modeling activity has continued based on the measurements from the main CP 1, 2, 10	Data sets based on the measurements
5.	Other activities	Participation at the monthly Report no. 35	Monthly Report no. 35

Expert,  
phD Helmut HABERSACK

Project Leader,  
PhD eng. DEÁK György