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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. 34:: 1-28 February 2014*

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## ANNEX 6.3.

### EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO. 34.: 1-28 February 2014

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

## MONTHLY REPORT 1 - 28 February 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 34	<ul style="list-style-type: none"> <li>○ Covering issues according to AFDJ Galati guidelines</li> </ul>	Monthly Report 34
2	Communication of the project stage 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 sturgeons' monitoring stations</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 approval of the documents elaborated in 34 <sup>th</sup> month of project activity		
7	Elaboration of the project activities program for the next period (1 - 31 March 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 - 28 February 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 (19, 22.02.2014)</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>▪ 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 34</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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### 6.3.3. Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist 2)

## MONTHLY REPORT 1 - 28 February 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 34 <sup>th</sup> campaign (8,14.02.2014)	For main critical points (CP01, 02 and 10)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 34 (8,14.02.2014)	For main critical points (CP01, 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 34<sup>th</sup> monthly report (Chapters: Air and Noise monitoring)</li> </ul>	Monthly Report no.34

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 - 28 February 2014

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data downloading from the VR2W reception stations (06, 07.02.2014)	Have been downloaded the recorded data from the stations at CP01, 02 and PC 10.	Data downloading
2.	Sturgeons migration monitoring (20, 21.02.2014)	<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>	Processed data from transects readings
3.	Other activities	<ul style="list-style-type: none"> <li>Contribution to the Monthly Report no.34 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 scientific purposes fishing permits</li> </ul>	Monthly Report 34 and Interim Report 7

Expert,  
PhD biol. Adrian Ionașcu

Project Leader,  
PhD eng. DEÁK György



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

**MONTHLY REPORT  
1 - 28 February 2014**

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations in February 2014	Statistical processing of level, temperature and turbidity data recorded in February 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 34	Data processing and interpretation	Hydrology subchapter elaboration at the hydromorphological monitoring activity and Annex 6.5

Expert,

**Balint Gabor**

Project Leader,  
PhD eng. Deák György



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

## MONTHLY REPORT 1 - 28 February 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (04-05, 12-13, 20-21, 27-28.02.2014)	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 (04-05, 12-13, 20-21, 27-28.02.2014)	Flow and velocity measurements in main critical points and on the monitoring sections	Unprocessed data for velocity and flow
3.	MONITORING CAMPAIGN (04-05, 12-13, 20-21, 27-28.02.2014)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level, CP01	Unprocessed velocity data
4.	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 34	Hydromorphology chapter and Annex 6.5

Expert,  
PhD eng. Gh. Viorel UNGUREANU

Project Leader,  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 28 February 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<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>10 sample units analysed</li> <li>Results on quality data</li> </ul>
2.	DATA PROCESSING AND ANALYSIS	<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 (environmentalist 1)

## MONTHLY REPORT 1 - 28 February 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (14.02.2014)</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. 34</li> <li>○ Program proposal for the next activities</li> </ul>	Monthly Report no. 34

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 - 28 February 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the 7 <sup>th</sup> Interim Report	Data regarding aquatic and terrestrial ecosystems	Centralising tables
2	Data processing regarding aquatic and terrestrial ecosystems	Establishing the primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration	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 - 28 February 2014

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preliminary estimations based on modeling with bottom sill in stage III on Bala branch with some complementary measures	<p>Simulations with Delft3D model performed for a flow situation in December 2013 enabled comparative analysis for the measurements results and for some model adjustments.</p> <p>The model was used to study the effects of the bottom sill in phase III on Bala branch, with stone shell, the effects of the dredging, as well as additional measures on hydraulic parameters, based on flow situation upstream from Bala in December 2013.</p>	Simulations results
2.	Simulation results based on measured data from January and February 2014 in the critical point 10 area	Delft3D model simulations provided flow distributions on Caleia branch and on that section of the Danube.	Results of Delft3D model regarding the hydraulic parameters at CP10
3.	Data completing based on measurements.	Completing of data sets for modeling has continued based on measurements from critical points 1, 2 and 10.	Preparation of data sets based on measurements
4.	Other activities	Contribution to the Monthly Report no. 34	Report 34

Expert,  
phD Helmut HABERSACK

Project Leader,  
PhD eng. DEÁK György