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2007-2013



PROGRAMUL OPERATIONAL SECTORIAL 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. 32: 1 – 31 December 2013*

## ANNEX 6.3.

# ACTIVITY REPORTS EXPERTS



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 PHASE II

MONTHLY REPORT NO. 32: 1 – 31 December 2013

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

## MONTHLY REPORT 1 - 31 December 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 32	<ul style="list-style-type: none"> <li>○ Covering breviary problem according to AFDJ Galati guidelines</li> </ul>	Monthly Report 32
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	Documents' checking carried out for the 28 <sup>th</sup> month of projects' implementation		
8	Elaboration of the activities' program for the period of 1 - 31 January 2013		

Project leader,  
PhD eng. Deák György



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PHASE II

MONTHLY REPORT NO. 32: 1 – 31 December 2013

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

## MONTHLY REPORT 1 - 31 December 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>ORGANISING SAMPLING CAMPAIGN OF SOIL, 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 (10.12.2013) (11.12.2013)</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>SOIL SAMPLING CAMPAIGN (11.12.2013)</b>	<ul style="list-style-type: none"> <li>▪ Soil samples from CP 03 (A and B), CP 04 (A and B) and CP 07;</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 soil sample has a completed registration bulletin for the sampling activity;;</li> </ul>	<ul style="list-style-type: none"> <li>▪ 38 soil 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 32</li> </ul>	

Expert,  
PhD eng. Gina GHIȚĂ

Project leader,  
PhD eng. DEÁK György



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*PHASE II*

MONTHLY REPORT NO. 32: 1 – 31 December 2013

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

## MONTHLY REPORT 1 - 31 December 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for the noise level, 32st campaign (5,12,13.12.2013)	For the main (01, 02 și 10) and the secondary critical points (03, 04, 07)	Punctual values of the noise level
2.	Measurements/sampling campaign for the noise level, campaign no.289 (5,12,13.12.2013)	For the main (01, 02 și 10) and the secondary critical points (03, 04, 07)	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	<ul style="list-style-type: none"> <li>○ Participation at the meetings of the project's team in order to plan the future activities</li> <li>○ Contribution to the accomplishment of the 31st monthly report (Air and Noise monitoring)</li> </ul>	Monthly Report no.32

Expert,  
PhD chem. Adriana Borș

Project Leader,  
PhD eng. DEÁK György



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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. 32: 1 – 31 December 2013

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

### MONTHLY REPORT 1 - 31 December 2013

NO	ACTIVITIES	DESCRIPTION	RESULTS
1.	Sturgeons scientific fishing activity (2÷4, 6, 9, 10, 13, 16÷20.12.2013)	Sturgeons scientific fishing activity in the area of the critical points, made according to ANPA authorizations	Report on the scientific fishing
2.	Sturgeons capture and labelling (05, 07, 12.12.2013)	3 individuals of beluga and 3 individuals of sevruga sturgeons have been caught and labelled	Capture files, biological sampling
3.	Data download from the reception stations and data processing	VR2W reception stations have been downloaded. An initial processing of data has been made	Migration routes have been made for the recorded individuals
4.	Bathymetric measurements for flows and velocities	Bathymetric measurements using River Surveyor M9 device to determine the velocities from the wintering habitats	Velocities centralizer at water surface and bottom
5.	Bentos sampling (05, 11, 23.12.2013)	Samples from the wintering habitats	Sampling sheets
6.	Other activities	Contribution to the accomplishment of the 32st Monthly Report	Report

Expert,  
PhD biol. Adrian Ionașcu

Project Leader,  
PhD eng. DEÁK György



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Instrumente Structurale  
2007-2013



PROGRAMUL OPERATIONAL SECTORIAL 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. 32: 1 – 31 December 2013*

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

## MONTHLY REPORT 1 - 31 December 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing activity, recorded in the automatic stations in December 2013	Statistical processing of level, temperature and turbidity data recorded in October 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 32	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. 32: 1 – 31 December 2013

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

## MONTHLY REPORT 1 - 31 December 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (02-05.12, 11-13.12, 18.12.2013)	Single beam bathymetric measurements in the main critical points and on the monitoring sections Multi-beam measurements in CP01 and 02	Raw and processed bathymetric data, transversal bathymetric sections
2.	MONITORING CAMPAIGN (02-05.12, 11-13.12, 18.12.2013)	Flows and velocities measurements in the main critical points and on the monitoring sections	Velocities data and raw flows
3.	MONITORING CAMPAIGN (02-05.12, 11-13.12, 18.12.2013)	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 32	Hydromorphology chapter and Annex 6.5

Expert,  
PhD eng. Gh. Viorel UNGUREANU

Project Leader,  
PhD eng. DEÁK György



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**TRANS**  
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PHASE II

MONTHLY REPORT NO. 32: 1 – 31 December 2013

**6.3.8 Expert position: PHYTOPLANKTON AND MACROPHYTES EXPERT- Florica Marinescu****MONTHLY REPORT  
1 - 31 December 2013**

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARATION OF THE SAMPLING CAMPAIGN OF PHYTOPLANKTON AND MACROPHYTES	<ul style="list-style-type: none"> <li>▪ Preparation of recipients for phytoplankton samples</li> <li>▪ Preparation of reagents to fix samples, in field conditions;</li> <li>▪ Preparation of necessary documents to record the field samples</li> </ul>	Conditions' assurance to carry on the sampling campaign
2.	SAMPLING CAMPAIGN OF PHYTOPLANKTON AND MACROPHYTES  (10.12.2013)	<ul style="list-style-type: none"> <li>▪ Phytoplankton samples from the CP 03A, CP 03B, CP 04A, CP 04B, CP 07</li> <li>▪ The phytoplankton samples have been fixed according to actual standards for the microscopic analysis, in laboratory</li> <li>▪ Each phytoplankton sample has a completed registration bulletin for the sampling activity</li> </ul>	<ul style="list-style-type: none"> <li>- 15 probe fitoplancton</li> <li>- Buletine de prelevare probe</li> </ul>
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> <li>▪ Preparation of the phytoplankton samples for the microscopic analysis</li> <li>▪ Microscopic identification of the individuals within the phytoplankton for the secondary points samples</li> <li>▪ Quantitative microscopic analysis of the algae unities within the phytoplankton</li> </ul>	Results on quality data
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> <li>▪ Accomplishment of phytoplankton species list identified within the samples</li> <li>▪ Density and biomass computation for phytoplankton samples</li> <li>▪ Saprobe index computation and Simpson diversity index for phytoplankton samples</li> </ul>	Preliminary values of the quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>▪ Elaboration of the monthly Report no.32 - aquatic flora and fauna monitoring chapter (excepting ichthyofauna)</li> </ul>	Monthly Report no. 32- Chapter F

Expert,  
Biologist Florica MarinescuProject Leader,  
PhD eng. DEÁK György





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2007-2013



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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. 32: 1 – 31 December 2013*

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

## MONTHLY REPORT 1 - 31 December 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CAMPAIGN REGARDING LUMBRICIDES' PRESENCE/ABSENCE (11.12.2013)	<ul style="list-style-type: none"> <li>lumbricides' absence/presence monitoring for soil samples taken from the secondary critical points: CP03 (A and B), CP04 (A and B) and CP07;</li> </ul>	Observations on lumbricides presence-absence
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> <li>evaluation of lumbricides' distribution in monitoring areas</li> </ul>	

**Expert,  
Cecilia Serban**

**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. 32: 1 – 31 December 2013

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

## MONTHLY REPORT 1 - 31 December 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (12.12.2013)</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. 32</li> <li>○ Program proposal for the next activities</li> </ul>	Monthly Report no 32

Expert,  
AMBRUS Laszlo

Project Leader,  
PhD eng. DEÁK György



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2007-2013



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PHASE II

MONTHLY REPORT NO. 32: 1 – 31 December 2013

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

## MONTHLY REPORT 1 - 31 December 2013

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Preparing data for Interim Report no. 7	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 assessor,  
PhD CSANYI Bela

Project Leader,  
PhD eng. DEÁK György



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Instrumente Structurale  
2007-2013



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*PHASE II*

*MONTHLY REPORT NO. 32: 1 – 31 December 2013*

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

## MONTHLY REPORT 1 - 31 December 2013

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Hydrodynamic modeling in Bala area	Computations at small scale have been made in Bala area, referring to reduction possibilities of the water surface variation upstream and downstream the bottom sill, as well as preliminary computations on the conditions in which the flow percentage might grow on the Old Danube, taking into consideration the data sets measured in 2013	Results of the simulations
2.	Hydrodynamic modeling at the CP10	At the CP10 the Dlft3D model of water flow at high discharges on the Danube has been prepared, when the water courses extend beyond the minor bed	Results of Delft3D model using the hydraulic parameters at the CP10
3.	Data completion based on the measurements	The completion of data sets has continued for the modeling, through the data processing from the measurements made by INCDPM in the actual situation	Data sets preparation based on measurements
4.	Other activities	Contribution to the Monthly Report no. 32	Report 32

**Expert,  
PhD Helmut HABERSACK**

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