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PROGRAMUL OPERATIONAL REGIONAL 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.40: 1–31 August 2014*

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO.40: 1-31 August 2014

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 40	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 40
2	Communication of the project phase and results to the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> ○ Elaboration of the addresses sent to AFDJ Galati ○ Participation at the progress meeting 	
3	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> ○ Checking the continuous monitoring stations, velocity measurements and bathymetry ○ Checking the monitoring stations for sturgeons ○ Checking the sampling campaigns ○ Checking the building site activities 	
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"> ○ Field visits for activities monitoring ○ Working meetings 	
5	Approval of monthly activity reports of the experts		
6	Checking and approving the documents elaborated in 40 th month of project activity		
7	Coordinate the completion of Interim Report 9		
8	Elaboration of the project activities program for the next period (1 - 30 September 2014)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO.40: 1–31 August 2014

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

MONTHLY REPORT 1 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS	<ul style="list-style-type: none"> ▪ Preparation of sampling recipients (differently, according to chemical indicators) for water and sediments; ▪ Preparation of reagents to fix water samples in field conditions; ▪ Laboratory and field AMCs calibration; ▪ Preparation of reagents set for field and laboratory analysis 	<ul style="list-style-type: none"> ▪ Assurance of proper conditions for the sampling campaign
2.	SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS (29.08.2014) (30.08.2014)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP 01, 02, 10 ▪ The conformation to the geographical coordinates for each sampling point has been checked; ▪ The samples have been labeled; ▪ For each water and sediment sample has completed a registration bulletin for the sampling activity; ▪ Field analysis were performed (pH, temperature, dissolved oxygen, turbidity) regarding water quality; ▪ Water samples have been fixed according to actual standards to determine indicators in the laboratory 	<ul style="list-style-type: none"> ▪ 50 water samples ▪ 20 sediment samples
3.	PHYSICAL-CHEMICAL LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Conducting the specific standard procedures for analytical data quality assurance. 	<ul style="list-style-type: none"> ▪ Preliminary data regarding soil, water and sediment quality
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the monthly Report 40 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.40: 1–31 August 2014

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

MONTHLY REPORT 1 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 40 th campaign (13, 21, 27.08.2014)	For main critical points (01, 02 and 10)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 36 (13, 21, 27.08.2014)	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"> ○ Participation at the meetings of the project team, in order to plan the future activities ○ Contribution to the 40th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no.40

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.40: 1-31 August 2014

6.3.4 Expert position: ICTHYOLOGIST 1 EXPERT - Sturgeons and barbell - CRISTEA VICTOR

MONTHLY REPORT 1 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Maintenance and data downloading: 04.08.2014 - PC 01, 05.08.2014 - PC 02, 13.08.2014 - PC 10.	Has been downloaded the data from monitoring systems on Borcea, Bala, Caleia, Cravia and Old Danube branches, Been removed the wastes attached on monitoring systems, Has been verified the functioning state and batteries for each system Been refixed some of the systems	Obtaining the data from the monitoring systems
2.	Diligence in order to obtain the permits for scientific fishing for sturgeons	Has been sent numerous faxes toward ANPA to request the permits according to Order no. 75/2012 regarding the authorization for sturgeons' fishing in scientific purposes	Faxes
3.	Data processing for sturgeons' migration period	Have been processed the data obtained during the entire spring campaign in order to complete the Interim Report 9	Maps, charts, tables
4.	Other activities	Contribution to Monthly Report no.40 Prepare the equipments necessary for tagging procedure	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.40: 1–31 August 2014

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

MONTHLY REPORT 1 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Electrical fishing for scientific purposes near the river banks PC 01 - 05.08.2014 PC 02 - 06.08.2014 PC 03 - 07.08.2014 PC 04 - 08.08.2014 PC 07 - 09.08.2014	Have been performed biometrical measurements for each specimen: total length, standard length and weight Have been establish the coordinates in order to determine punctually each fishing strip.	Identification for fish species composition in studied areas and their relative abundance determination
2.	Data processing	Data processing from scientific fishing in PC 01, PC 02, PC 03, PC 04, PC 07	Maps with fishing areas, charts and interpretation on identified species number and their abundance
3.	Other activities	Contribution for Interim Report 9	

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 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in August 2014	Statistical processing of level, temperature and turbidity data recorded in August 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 40	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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MONTHLY REPORT NO.40: 1–31 August 2014

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

MONTHLY REPORT 1 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (01, 04-06, 12-15, 20-22, 25-28.08.2014)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
		Measurements for flow and velocity in main critical points and on monitoring sections.	Unprocessed flow and velocity data
		Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01	Unprocessed velocity data
2.	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 40	Hydromorphology chapter and Annex 6.5

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 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪Microscopic identification of phytoplanktonic organisms for samples collected in July 24 2014 campaign (main and secondary critical points) ▪Quantitative microscopic analysis for algae units of phytoplankton 	
2.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪Making the list for phytoplankton species identified in collected samples ▪Density and biomass computation for phytoplankton samples ▪Sabroic index and Simpson diversity index calculation for phytoplankton samples ▪Results interpretation and graphic representation for quality data results from phytoplankton samples analysis 	Values of quality indicators
3.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪Participation in elaboration of the Monthly Report no. 40 - Chapter: Monitoring of aquatic flora and fauna (except for ichthyofauna) 	Monthly Report no.40 - Chapter F

Expert,
Dr.biologist Florica MARINESCU

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 August 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (03, 04, 17, 18, 25, 28.07.2014)	<ul style="list-style-type: none"> ○ field campaign in CP01, CP02, CP10 areas to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropisation level in the area of the building site; ○ checking the building site, including the materials used by constructor; ○ sites verification; 	<ul style="list-style-type: none"> - data - images
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no. 40; ○ Program proposal for the next period activities; 	Monthly Report no. 40

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 August 2014

NO.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Interim Report 9	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 Quality indicators variation

Expert assessor,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 40: 1 – 31 August 2014

6.3.17 EXPERT 3D MODELLING - Ph.D Professor HELMUT HABERSACK

MONTHLY REPORT 01 - 31 August 2014

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Numerical simulations to estimate the effects of some dredging versions on water flow parameters in the area of critical points 01 and 02.	Calculations with a version of bottom sill on Bala specified in August, close to the present situation, have provided estimations of water flow parameters for a relatively small discharge, taking into consideration channel deepening on the Old Danube by means of dredging works or due to modification of the natural process of sediment transport by water streams. The calculations were performed with a Delft3D numerical model based on measured data from the last part of the year 2013.	Results of numerical simulations.
2.	Numerical simulation of water flow parameters in the zone of the critical point 10, under conditions of discharges from August.	The numerical simulations with the Delft3D model were performed using bathymetric data from July in the zone of the critical point 10. The results of the numerical simulations with data based on measurements during the period after the end of the works at the critical point 10 contribute to the analysis of the works effects under various situations occurring on the Danube, some of them occurring with low frequency, in the range of discharges considered within the monitoring project.	Results of numerical simulations.
3.	Data completion for modelling, based on the measurements carried out in August 2014.	Data processing activities (data measured on Danube) and the preparation of data sets in usable form for modelling have continued.	Data preparation based on the measurements carried out.
4.	Other activities.	- Contribution to the monthly report no 40 - Contribution to the intermediate report no 9	Monthly report no 40

Expert,
Ph.D Helmut HABERSACK

Project leader,
Ph.D Eng. DEÁK György

In the report, the activity concerning cvasi 3D modelling carried out by INCDPM and Deltares-experts has been presented according to the technical specifications.