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Institutul Național de Cercetare-Dezvoltare
pentru Protecția Mediului

Instrumente Structurale
2007-2013

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. 47: 1 – 31 March 2015

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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PHASE II

MONTHLY REPORT NO. 47: 1 – 31 March 2015

6.3.1. Expert position: PROJECT LEADER EXPERT - Deák György

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.47	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 47
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 47 month of project activity		
7	Coordinate the completion of Interim Report 10		
8	Elaboration of the project activities program for the next period (1 - 30 April 2015)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

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

MONTHLY REPORT 01-31 March 2015

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 (18.03.2015; 21.03.2015)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP 01, CP 02, CP10, CP 03 (A and B), CP 04 (A and B) and CP 07; ▪ The conformation to the geographical coordinates for each sampling point has been checked; ▪ The samples have been labelled; ▪ 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"> ▪ 100 water samples ▪ 40 sediment samples
3.	SAMPLING CAMPAIGN FOR SOIL (18.03.2015)	<ul style="list-style-type: none"> ▪ Soil samples were taken from the CP 01, CP 02, CP 10, CP 03 (A and B), CP 04 (A and B) and CP 07; ▪ The conformation to the geographical coordinates for each sampling point has been checked ▪ samples were labelled; ▪ for each soil sample has completed a registration bulletin for the sampling activity; 	<ul style="list-style-type: none"> ▪ 20 soil samples
4.	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
	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the monthly Report 47 ▪ Participation at the intermediary Report 10 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

6.3.3. Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist2)

MONTHLY REPORT 01 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 47 campaign (10, 19, 24.03.2015)	For main critical points CP 01, CP 02 and secondary CP(03 A, 03 B, 04 A, 04 B, 07)	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no.44 (10, 19, 24.03.2015)	For main critical points CP 01, CP 02 and CP sec (03 A, 03 B, 04 A, 04 B, 07)	Preliminary values of the air quality indicators
3.	Data processing	<ul style="list-style-type: none"> 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 47th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no 47

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

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

MONTHLY REPORT 01 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Maintenance and data downloading: 04, 10, 19, 24.03.2015 - CP01, CP02 25.03.2015 - CP10	Has been downloaded the data from monitoring systems on Borcea, Bala, Caleia, Cravia and Old Danube branches, Has been realized activities of maintenance for the monitoring systems	Obtaining the data from the monitoring systems
2.	Diligence in order to obtain the permits for scientific fishing	Has been sent requesting addresses toward A.N.P.A regarding the authorization for fishing in scientific purposes	Faxes ANPA
3.	Other activities	Contribution to Monthly Report no. 47 Capturing, marking and release sturgeon preparation campaign. Contribution to Intermediar Report no. 10	Reports

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

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

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in March 2015	Statistical processing of level, temperature and turbidity data recorded in March 2015 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 47	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. 47: 1 – 31 March 2015

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

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (03-05, 10, 18-19, 24-27.03.2015)	Single-beam bathymetric measurements in the main critical points and on the monitoring sections Multi-beam bathymetric measurements in critical points CP01 si CP02.	Raw and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN (03-05, 10, 18-19, 24-27.03.2015)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01-CP02	Unprocessed flow and velocity data
3.	OTHER ACTIVITIES	Continuation of flow and velocity measurements processing from previous months	Processed velocity and flow data Velocities sections
4.	OTHER ACTIVITIES	Contributions to the Monthly Report no 47	Hydro morphology chapter and Annex 6.5
		Development program proposal for the period 1 - 30 April 2015	Programme

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

6.3.8 Expert position: PHYTOPLANKTON AND MACROPHYTES EXPERT- Florica Marinescu

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preparation for SAMPLING CAMPAIGN of phytoplankton and macrophytes	<ul style="list-style-type: none"> ▪ Samples containers for phytoplankton ▪ Preparation fixation reagent samples under field conditions ▪ Preparing documents for recording of evidence on the field 	Ensuring the conditions for development of sampling campaign
2.	Sampling campaign for phytoplankton and macrophytes (18.03.2015; 22.03.2015)	<ul style="list-style-type: none"> ▪ Specific activities phytoplankton and macrophytes sampling of CP 03A, CP 03B, CP 04A, CP 04B, CP 07 ▪ Determination field for macrophyte species ▪ harvesting and conservation macrophytes were determined not on the field ▪ Securing appropriate standard samples Completion of bulletin sampling for phytoplankton samples and macrophytes 	<ul style="list-style-type: none"> - 15 samples (left brench, center, right brench) - Sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪ Microscopic identification of phytoplanktonic organisms ▪ Quantitative microscopic analysis for algae units of phytoplankton ▪ Spectrophotometric determination of "chlorophyll" for water samples taken from CP 01, 02, 10 	Results of quality data
4.	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 ▪ Sabrobic index and Simpson diversity index calculation for phytoplankton samples ▪ Preparing to macrophytes species identified in each critical point ▪ Density and biomass computation for aquatic macrophytes 	Values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation in elaboration of the Monthly Report no. 47 - Chapter: Monitoring of aquatic flora and fauna (except for ichthyofauna) 	Monthly Report no.47 - Chapter F

Expert,
Dr.biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

MONTHLY REPORT 01-31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OBSERVATION CAMPAIGN OF PRESENCE / ABSENCE LUMBRICIDES (18.03.2015)	- It was monitored the presence / absence lumbricides for soil samples taken from the locations of critical points: CP03 (A and B), CP04 (A și B) and CP07;	Observations regarding the presence / absence of lumbricides
2.	OTHER ACTIVITIES	- Preparing observation campaign - Evaluation the areas of monitoring distribution lumbricides - Participation in elaboration of the i Intermediar Report 10	

Expert,
Șerban Cecilia

Project Leader,
Dr. ing. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> Preparing the sampling containers Preparing the reagents for "in field" samples fixation Preparing the necessary documents for "in field" samples registration 	Ensure the optimal conditions for sampling campaign
2.	SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (21 - 22.03.2015)	<ul style="list-style-type: none"> Specific activities for aquatic macroinvertebrates in critical points 03A, 03B, 04A, 04B, 07 and CP 10 Verifying the compliance of GPS coordinates for each sampling point Samples fixation, labeling Completing the sampling bulletins for aquatic macroinvertebrates 	<ul style="list-style-type: none"> 26 sample units collected Sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> benthic macroinvertebrates samples sorting, taken for selecting benthic organisms and for realizing next investigation qualitative and quantitative analysis of the benthic macroinvertebrates collected samples 	<ul style="list-style-type: none"> 26 sample units analysed
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> abundance and numerical density computation on taxonomic groups of benthic macroinvertebrates computation of Shannon-Wiener diversity index for macroinvertebrates samples listing saprobiological water quality indicators graphic representation of quality data resulted from the analysis of macroinvertebrates samples 	<ul style="list-style-type: none"> preliminary values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> Contribution to Intermediar Report 10 	

Expert,
Luiza FLOREA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

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

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (10, 19, 24.03.2015)	<ul style="list-style-type: none"> ○ field campaign in critical point CP01, CP02 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. 47 ○ Participation in elaboration of the Intermediar Report 10 ○ Program proposal for the next period activities 	Monthly Report no. 47

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 47: 1 – 31 March 2015

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

MONTHLY REPORT 1 - 31 March 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Intermediar Report 10	Data regarding aquatic and terrestrial ecosystems	Decisional matrix, graphics
2	Data processing regarding aquatic and terrestrial ecosystems	Establishing the primary statistical values	Primary statistical parameters
3	Abiotic and biotic data corroboration for Phase Report	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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Proiect: MONITORIZAREA IMPACTULUI ASUPRA MEDIULUI A LUCRĂRILOR DE ÎMBUNĂȚIRE A CONDIȚIILOR DE NAVIGAȚIE
PE DUNĂRE ÎNTRE CĂLĂRAȘI ȘI BRĂILA, km 375 și km 175
ETAPA II

RAPORT LUNAR NR. 47: 1 – 31 Martie 2015

6.3.17 Expert position: 3D MODELLING EXPERT - prof.dr. HELMUT HABERSACK

MONTHLY REPORT 1 - 31 March 2015

No	ACTIVITIES	DESCRIPTION	RESULTS
1.	Preparation of the geometric input and the computation meshes for RSim3D including Sill Phase III with cover and dredging.	Inserting dredging into the terrain model of Sill Phase III with cover and adjustment of the computation mesh of RSim3D, to discretize the structure.	Dredging inserted into terrain model of (Sill Phase III with cover) and computation mesh of RSim3D.
2.	Hydrodynamic numerical simulations and habitat simulations for Sill Phase III with cover and dredging with RSim3D.	Hydrodynamic-numerical simulations and habitat simulations of the planned structures (Sill Phase III with cover and dredging) were done for five discharges at CP01 and CP02 with RSim3D.	Simulations for Sill Phase III with cover and dredging at CP01 and CP02 done.
3.	Modelling of hydrodynamic parameters in CP02 and of local sediments transport under current condition of the dam	The water flow on the branches was modelled starting from data on flows on Old Danube branch in the last period and simulations were done on tendencies for local sediments transport in CP02, using an option of Delft3D.	Results of numerical simulations.
4.	Data fill in for modelling based on measurements.	Data processing activities for measurements on Danube and preparation of datasets for modelling.	Data processing for modelling, based on measurements.
5.	Other activities	Participation in elaboration of Monthly Report 47 and Interim Report 10	Monthly Report 47

Expert,
Dr. Helmut HABERSACK

Project Coordinator,
Dr. ing. DEÁK György