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MINISTERUL TRANSPORTURILOR
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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. 46: 1 – 28 February 2015

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO. 46: 1 – 28 February 2015

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no. 46	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines 	Monthly Report 46
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 46 month of project activity		
7	Coordinate the completion of Interim Report 10		
8	Elaboration of the project activities program for the next period (1 - 31 March 2015)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO. 46: 1 – 28 February 2015

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

MONTHLY REPORT 01-28 February 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 (26.02.2015)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP 01, CP 02 ▪ 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"> ▪ 35 water samples ▪ 14 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 46 ▪ Participation at the Intermediar Report 10 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 46: 1 – 28 February 2015

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

MONTHLY REPORT 01 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 46 campaign (5,20,27.02.2015)	For main critical points CP 01, CP 02 and CP10	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no.43 (5,20,27.02.2015)	For main critical points CP 01, CP 02 and CP10	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 46th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no.46

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 46: 1 – 28 February 2015

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

MONTHLY REPORT 01 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Maintenance and data downloading: 16.02 - CP 01, 20.02 - CP 02, 26.02 - CP 10.	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.	Processing data Intermediar Report 10	Processing data from September-December 2014	Maps, charts, tables
3.	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
4.	Capturing, marking and release sturgeon preparation campaign.	Has been realized activities of maintenance for the marking systems and were carried out discussions with fisherman's regarding the way of developing the activities of fishing.	
5.	Other activities	Contribution to Monthly Report no. 46 Contribution to Intermediar Report no. 10	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 46: 1 – 28 February 2015

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

MONTHLY REPORT 1 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in February 2015	Statistical processing of level, temperature and turbidity data recorded in February 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 46	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. 46: 1 – 28 February 2015

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

MONTHLY REPORT 1 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (05-06, 09-11, 16-20, 23-27.02.2015)	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 (05-06, 09-11, 16-20, 23-27.02.2015)	Measurements for flow and velocity in main critical points and on monitoring sections	Unprocessed flow and velocity data
3.	MONITORING CAMPAIGN (05-06, 09-11, 16-20, 23-27.02.2015)	Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points 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 no46	Hydromorphology chapter and Annex 6.5

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 46: 1 – 28 February 2015

6.3.13 Expert position: AVIFAUNA IMPACT MONITORING EXPERT - JOZSEF SZABO

MONTHLY REPORT 01 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OTHER ACTIVITIES	<ul style="list-style-type: none"> - Processing data regarding the avifauna monitoring in winter campaign - Contribution to the Intermediar Report no 10 	Intermediar Report 10

Expert,
JOZSEF SZABO

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 - 28 February 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (05.02.2015)	<ul style="list-style-type: none"> ○ field campaign in 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 - photos
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no. 46 ○ Contribution to the Intermediar Report no 10 ○ Program proposal for the next period activities 	Monthly Report no. 46

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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6.3.15. Expert position: BIODIVERSITY IMPACT EVALUATION/MONITORING EXPERT-ZAHARIA Tania (ecologist 2)

**MONTHLY REPORT
01 - 28 February 2015**

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	OTHER ACTIVITIES	<ul style="list-style-type: none"> - Data Processing regarding the Natura 2000 sites monitoring - Contribution to the Intermediar Report no. 10 	Intermediar Report no 10

Expert,
PhD. Tania ZAHARIA

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 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing for the Intermediar Report 10	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 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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MONTHLY REPORT No. 46: 1 – 28 February 2015

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

MONTHLY REPORT 1 - 28 February 2015

No	ACTIVITY	DESCRIPTION	RESULTS
1.	Preliminary modelling of the influence of variable flows on local sediments transportation on branches in PC02.	Starting from variable values arrays based on Old Danube flows, the modelling of their effects on sediments local transportation on the branches in PC02 was carried out using an optional approach within the Delft3D model.	Files with results of numeric simulations.
2.	Preliminary modelling of tendencies of sediments local transportation at branching of Old Danube under previous conditions.	Numeric simulations of tendencies of sediments local transportation were carried out using some previous flows on Old Danube and allowed a preliminary qualitative analysis of results of Delft3D model with certain data and options, under specific conditions at branching.	Files with results of numeric simulations.
3.	Completion of data for modelling, based on measurements.	Data processing of measurements and prepare the datasets for modelling.	Data for modelling, based on measurements.
4.	Preparation of the geometric input and the computation meshes for Rsim3D including Sill Phase III with cover	Inserting Sill Phase III with cover at CP01 into the terrain model and adjustment of the computation mesh of Rsim3D, to discretize the structure	Sill Phase III with cover inserted into terrain model and computation mesh of Rsim3D
5.	Hydrodynamic numerical simulations and habitat simulations for Sill Phase III with cover with Rsim3D	Hydrodynamic-numerical simulations and habitat simulations of theplanned structures (Sill Phase III with cover) were done for five discharges at CP01 and CP02 with Rsim3D	Simulations for Sill Phase III with cover at CP01 and CP02 done
6.	Other activities	Participation in elaboration of Monthly Report 46 Participation in elaboration of Interim Report 10	Reports

Expert,
Dr. Helmut HABERSACK

Conducător Proiect,
Dr. ing. DEÁK György