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PROGRAMUL OPERATIONAL SECTORIAL TRANSPORT
TRANS
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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. 48: 1 – 30 April 2015

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.48	<ul style="list-style-type: none"> Covering issues according to AFDJ Galati guidelines 	Monthly Report 48
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 45 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 May 2015)		

Project leader,
PhD eng. Deák György



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

MONTHLY REPORT 01-30 April 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 (30.04.2015)	<p>Water and sediments sampling from CP 01, and CP 02</p> <ul style="list-style-type: none"> ▪ 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	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 48 ▪ Participation at the Intermediar Report 10 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 48: 1 – 30 April 2015

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

MONTHLY REPORT 01 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, 48 campaign (10,16.04.2015)	For main critical points CP 01 and CP 02	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no.45 (10,16.04.2015)	For main critical points CP 01 and CP 02	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 48th monthly report (Chapters: Air and Noise Monitoring) 	Monthly Report no 48

Expert,
PhD chem. Adriana Borș

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 48: 1 – 30 April 2015

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

MONTHLY REPORT 01 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Installation of monitoring systems 22.04.2015 - Bala 30.04.2015 - Borcea	Were installed eight-type monitoring systems DKMR-01T on Bala branch and Borcea branch at km 0	Improved efficiency in the monitoring threshold Bala.
2	Sturgeon marking 28,30.04.2015	There were marked 11 sturgeon specimens as follows: two beluga, stellate sturgeon 9	Sheets sturgeon marking
3	Migration Monitoring Camera Didson 21-22.04.2015 - Bala 23-24.04.2015 - Caleia	Were accomplished filming with Didson camera in bottom sill of Bala and Caleia branch.	Videos
4	Velocity measuring in habitas	Measurements were made to determine the velocity of reproduction and feeding from branch Bala and Borcea habitas.	Measurements
5	Collecting benthos samples 16.04.2015 - Bala, Borcea	Samples were taken from the branch Bala and Borcea for laboratory analysis	Sampling bulletins
6	Maintenance and data downloading 28.04.2015 - Caleia	Has been downloaded the data from monitoring systems, and it has been realized activities of maintenance for the monitoring systems	Obtaining the data from the monitoring systems
7	Other activities	Contribution to Monthly Report no. 48 Contribution to development of Intermediar Report 10 Initial processing of data from monitoring systems	

Expert sturgeons ichthyologist,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 48: 1 – 30 April 2015

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

MONTHLY REPORT 01 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Shad migration monitoring 22-27.04.2015	Fishing nets in critical points 01, 02, 03, 04, 07. Biometric measurements for captured shads, and samples of scale for age determination. GPS coordinates for identification in GIS system of the fishing sites conducted. Were fished with ichthyoplanktonic net bongo-net type.	- shad distribution on monitoring area - structured on size and age classes - determining the relative abundance of shad larvae
2.	Other activities	Contribution to the Monthly Report no. 48 Have been processed the initial data and prepared the equipment for scientific fishing from May.	

Expert ihtiolog, other fish species,
PhD. biol. FALKA Istvan

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO. 48: 1 – 30 April 2015

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

MONTHLY REPORT 1 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in April 2015	Statistical processing of level, temperature and turbidity data recorded in April 2015 automatic stations from CP 01, 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 48	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. 48: 1 – 30 April 2015

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

MONTHLY REPORT 1 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (03, 10, 16, 17, 22, 23, 24, 27, 28, 29, 30.04.2015)	Single-beam bathymetric measurements in the main critical points CP01 and CP02 and on the monitoring sections	Raw and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN (03, 10, 16, 17, 22, 23, 24, 27, 28, 29, 30.04.2015)	Flow and velocity measurements processing for CP01 and CP02 and on the monitoring sections	Unprocessed flow and velocity data
3.	MONITORING CAMPAIGN (03, 10, 16, 17, 22, 23, 24, 27, 28, 29, 30.04.2015)	Weekley water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01	Processed velocity and flow data Velocities sections
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. 48	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 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> Qualitative and quantitative analysis of the benthic macroinvertebrates samples 21-22 March 2015 from CP 03, 04, 07 	<ul style="list-style-type: none"> 26 units of samples
2.	DATA ANALYSIS AND PROCESSING	<ul style="list-style-type: none"> Abundance computation and numerical density on taxonomic groups of the benthic macroinvertebrates Shannon-Wiener diversity index computation for macroinvertebrates samples 	<ul style="list-style-type: none"> Preliminary values of the qualitative indicators
3.	OTHER ACTIVITIES	<ul style="list-style-type: none"> Contribution to the Intermediar Report 10 	

Expert,
Luiza FLOREA

Project Leader,
PhD eng. DEÁK György



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6.3.13 Expert position: AVIFAUNA IMPACT MONITORING EXPERT - JOZSEF SZABO

MONTHLY REPORT 01 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING AVIFAUNĂ	- Processing data and analysis regarding avifauna monitoring in construction period for critical point;	<ul style="list-style-type: none"> ○ data ○ lists of species
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> - Contribution to the Intermediar Report no 10 - Preparing data for the Intermediar Report 11 and for Phase Report - Processing data regarding the avifauna monitoring in spring campaign - Program proposal for the next period activities. 	Reports

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 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (10, 16, 30.04.2015)	<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 - photos
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no 48 ○ Contribution to the Intermediar Report no. 10 ○ Program proposal for the next period activities 	Monthly Report no. 48

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 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT ON BIODIVERSITY MONITORING	<ul style="list-style-type: none"> ○ Data processing obtained from previous campaign regarding monitoring in the construction period ○ Data analysis regarding biodiversity impact from protected areas from critical points 	<ul style="list-style-type: none"> - species list - data
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the finalization of Intermediar Report no. 10 ○ Data processing for Intermediar Report 11 	Reports

Expert,
PhD. Tania ZAHARIA

Project Leader,
PhD eng. Deák György



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MONTHLY REPORT NO. 48: 1 – 30 April 2015

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

MONTHLY REPORT 1 - 30 April 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Data processing regarding the aquatic and terrestrial ecosystems for the Intermediar Report 10	Establishing the primary statistical values	Primary statistical parameters
2	Abiotic and biotic data corroboration for Phase Report	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variation
3	Data processing for the Intermediar Report no 11	Data regarding aquatic and terrestrial ecosystems	Centralization tables

Expert assessor,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György



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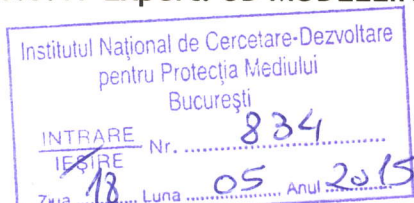


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ETAPA II

RAPORT LUNAR NR. 48: 1 – 30 Aprilie 2015

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



MONTHLY REPORT 1 - 30 April 2015

No	ACTIVITY	DESCRIPTION	RESULTS
1.	Preparation of the geometric input and the computation meshes for RSim3D including Sill Bottom 0 B.S.C.	Inserting Sill Bottom 0 B.S.C at CP01 into the terrain model and adjustment of the computation mesh of RSim3D, to discretize the structure.	Sill Bottom 0 B.S.C inserted into terrain model and computation mesh of RSim3D.
2.	Hydrodynamic numerical simulations and habitat simulations for Sill Bottom 0 B.S.C with RSim3D.	Hydrodynamic-numerical simulations and habitat simulations of the planned structures (Sill Bottom 0 B.S.C) were done at CP01 and CP02 with RSim3D.	Simulations for Sill Bottom 0 B.S.C at CP01 and CP02 done.
3.	Hydrodynamic numerical simulations and habitat simulations for submersed guiding wall at CP02 with RSim3D.	Hydrodynamic-numerical simulations and habitat simulations of the planned structures (submersed guiding wall) were done at CP02 with RSim3D.	Simulations for submersed guiding wall at CP02 done.
4.	Modelling with Delft3D regarding the flow on the branches at CP02 and local sediment transport for flow situations from April.	Water flow modelling on the branches for flows from April at CP02 and simulations on tendencies for local sediment transport.	Results of numerical simulations.
5.	Data fill in for modelling based on measurements.	Data processing activities for measurements on the Danube and preparation of datasets for modelling.	Data processing for modelling, based on measurements.
6.	Other activities.	Participation in elaboration of Monthly Report 48.	Monthly Report 48.

Expert,
Dr. Helmut HABERSACK

Project coordinator,
Dr. ing. DEÁK György