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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

MONTHLY REPORT NO.53: 1 – 30 September 2015

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO.53: 1 – 30 September 2015

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.53	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ RA Galati guidelines 	Monthly Report 53
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 	
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 month 53 of project activity		
7	Coordinate the completion of Interim Report 11 Coordinate the drafting of Interim Report 12		
8	Elaboration of the project activities program for the next period (1 - 31 October 2015)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO.53: 1 – 30 September 2015

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

MONTHLY REPORT 1 - 30 September 2015 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ORGANISING SAMPLING CAMPAIGN FOR SOIL, 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 for water samples fixation 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 (25.09.2015; 30.09.2015)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP01, CP 02, CP10, CP 03 (A and B), CP 04 (A and B) and CP07; ▪ The compliance to geographical coordinates for each sampling point has been checked; ▪ The samples has 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 (30.09.2015)	<ul style="list-style-type: none"> ▪ Soil sampling from CP 03 (A and B), CP 04 (A and B) and CP 07; ▪ The compliance to geographical coordinates for each sampling point has been checked; ▪ The samples has been 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
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Participation at the Monthly Report 53 ▪ Participation at the Interim Report 12 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign for noise level, campaign no. 53 (28.09.2015)	For secondary critical points CP03A, 03B, 04A, 04B, 07	Punctual values of noise level
2.	Measurements/sampling campaign for air, campaign no. 50 (28.09.2015)	For secondary critical points CP03A, 03B, 04A, 04B, 07	Preliminary values of 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 implementation team, in order to plan and conduct future activities ○ Contribution to the Monthly Report no. 53 (Chapters: Air and Noise Monitoring) ○ Contribution to Interim Report 12 	Monthly Report no 53

Expert,
PhD chem. Adriana Borș

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.53: 1 – 30 September 2015

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

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Scientific fishing for sturgeon species (18, 23, 24, 25, 28, 29.09.2015)	Scientific fishing activity started in 18.09.2015 according to the permits from ANPA. No specimens been captured in this month. The low flow rate on Danube and strong eutrophication impeded both migration and fishing.	No sturgeon specimen have been tagged, from monitored species.
2	Data downloading: CP01 - 21.09.2015 CP10 - 22.09.2015	Have been downloaded data from the monitoring systems and been performed maintenance activities.	Database completion
3	Other activities	Contribution to Monthly Report no. 53 Data processing for Interim Report 12	Reports

Ichthyologist Expert,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Processing the data from July-August	Have been processed and interpreted the data obtained from scientific fishing in all monitoring critical points.	- species distribution, abundance and biomass of captured specimens
2.	Other activities	Contribution to the Monthly Report no. 53 Contribution to Interim Report 12	Report

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

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.53: 1 – 30 September 2015

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

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Turbidity, temperature and relative level data processing, recorded in the automatic stations in September 2015	Statistical processing of level, temperature and turbidity data recorded in September 2015, in 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. 53	Data processing and interpretation.	Hydrology subchapter elaboration for the hydro-morphological monitoring activity and Annex 6.5

Expert,
PhD eng. George POTERAȘ

Project Leader,
PhD eng. Deák György



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

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN (04, 08, 09, 14, 17, 18, 21-25, 28, 29.09.2015)	Single-beam bathymetric measurements in CP01, CP02, CP10 and searching for pits-habitats on Borcea, Bala, Danube and in secondary critical points	Primary and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN (04, 08, 09, 14, 17, 18, 21-25, 28, 29.09.2015)	ADCP measurements for velocities and flow in CP01, CP02, CP10 and in searching areas for fish pits-habitats	Unprocessed velocity data
3.	OTHER ACTIVITIES	Continuation of flow and velocity measurements processing from previous months.	Processed data for flow and velocity Velocities sections
4.	OTHER ACTIVITIES	Contributions to the Monthly Report no. 53	Hydro-morphology Chapter and Annex 6.5
		Schedule drafting for 1 - 31 October 2015 period	Schedule

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.53: 1 – 30 September 2015

6.3.8 Expert position: MACROPHYTES AND PHYTOPLANKTON EXPERT - Florica Marinescu

MONTHLY REPORT 1 - 30 September 2015 Post-construction phase

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON	<ul style="list-style-type: none"> ▪Preparing sampling containers for phytoplankton samples ▪Preparation of reagents for samples fixing in field conditions; ▪Preparing the necessary documents for „in field” samples registration 	Ensure the optimal conditions for conducting the sampling campaign
2.	PERFORMING SAMPLING CAMPAIGN FOR PHYTOPLANKTON (17.09.2015)	<ul style="list-style-type: none"> ▪Specific sampling activities for phytoplankton in CP 03A, 03B, 04A, 04B, 07 ▪Samples fixing according to standards ▪Sampling bulletins completion for phytoplankton 	<ul style="list-style-type: none"> - 15 samples (left bank, centre, right bank) - sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪Microscopical identification for organisms that are part of phytoplankton ▪Quantitative microscopical analysis for algal units of phytoplankton 	Results regarding quality data
4.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪drawing up the list of phytoplankton species identified in collected samples ▪calculation of density and biomass for phytoplankton samples ▪calculation of saprobic index and Simpson diversity index for phytoplankton samples 	Values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪Contribution to Monthly Report no. 53 - chapter „Aquatic flora and fauna monitoring (except for ichtyofauna) 	Monthly Report no. 53 - Chapter F

Expert,
PhD biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.53: 1 – 30 September 2015

6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CONDUCTING THE OBSERVATION CAMPAIGN REGARDING PRESENCE/ABSENCE OF LUMBRICIDES (30.09.2015)	- Have been monitored presence/absence of the lumbricides for soil samples collected from critical points locations: CP03 (A and B), CP04 (A and B) and PC07;	Observations regarding presence/absence of the lumbricides
2.	OTHER ACTIVITIES	- Preparing the observation campaign - Assessing the lumbricides distribution in monitoring areas - Contribution to Interim Report 12	

Expert,
ȘERBAN Cecilia

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.53: 1 – 30 September 2015

6.3.11 Expert Position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza FLOREA

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> ▪Preparing sampling containers ▪Preparation of reagents for samples fixing in field conditions; ▪Preparing the necessary documents for „in field” samples registration 	Ensure the optimal conditions for conducting the sampling campaign
2.	SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (25.09.2015)	<ul style="list-style-type: none"> ▪Specific sampling activities for aquatic macroinvertebrates in critical points CP 03A, 03B, 04A, 04B, 07 and CP10 ▪verification of compliance for GPS coordinates of each sampling point ▪Samples labelling and fixing ▪Sampling bulletins completion for aquatic macroinvertebrates 	<ul style="list-style-type: none"> ▪ 40 samples units ▪ sampling bulletins
3.	PERFORMING LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪additional sorting of benthic macroinvertebrates samples, collected to select benthic organisms and perform further investigations ▪qualitative and quantitative analysis for benthic macroinvertebrates samples 	▪ 40 selected analyzed samples
2.	DATA PROCESSING AND ANALYSIS	<ul style="list-style-type: none"> ▪calculating abundance and numerical density on taxonomic groups of benthic macroinvertebrates ▪Shannon-Wiener diversity index calculation for macroinvertebrates samples ▪drawing up a list of saprobe indicators of water quality ▪Graphic representation of data quality resulting from the analysis of macroinvertebrates samples 	▪ values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> • Contributions to Interim Report 12 	

Expert,
Luiza FLOREA

Project Leader,
PhD eng. DEÁK György



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6.3.13 Expert position: AVIFAUNA MONITORING EXPERT - JOZSEF SZABO

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<p>MONITORING CAMPAIGN FOR AVIFAUNA - AUTUMN MIGRATION</p> <p>(01-04, 07-11, 14.09.2015)</p>	<p>Field trip in CP04 area</p> <ul style="list-style-type: none"> ▪ Observations for aquatic and migratory avifauna from the shore ▪ Capturing and tagging activities for avifauna <p>Avifauna observations in dobrogean lakes area (CP02-CP04)</p>	<ul style="list-style-type: none"> ○ observation sheets; ○ data; ○ photos; ○ lists of species
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪ Contribution to Monthly Report 53 (chapters G and H) ▪ Contribution to Interim Reports 11 and 12 ▪ Drafting the program proposal for future 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)

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT MONITORING (28.09.2015)	<ul style="list-style-type: none"> ○ field campaign in CP10 area and in secondary critical points to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropization level in the construction site area; ○ 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 53 ○ Contribution to the Interim Report no. 12 ○ Program proposal for the next period activities 	Monthly Report no. 53

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING OF THE ANTHROPIC IMPACT ON BIODIVERSITY (08-11.09.2015)	<p>Observation regarding anthropic impact on avifauna in Natura 2000 sites:</p> <ul style="list-style-type: none"> ▪ Field campaign in critical points area and dobrogean lakes. ○ Avifauna assessments in Natura 2000 sites: <ul style="list-style-type: none"> - ROSPA0039 “Dunăre Ostroave” - in CP04 area - ROSCI0022 “Canaralele Dunării” - in CP04 area - In CP02-04 area: <ul style="list-style-type: none"> ○ ROSCI0071 „Dumbrăveni - Valea Urluia - Lacul Vederoasa” - in lake Baciului and pond Vederoasa area ○ ROSPA0007 „Balta Vederoasa” - in pond Vederoasa and lake Baciului area ○ ROSCI0172 „Pădurea și Valea Canaraua Fetii - Iortmac” - in lakes Dunăreni, Iortmac and Oltina area ○ ROSPA0054 „Lacul Dunăreni” in lake Dunăreni area ○ ROSPA0056 „Lacul Oltina” - in lake Oltina and Iortmac area 	<ul style="list-style-type: none"> - data - photos - species list
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to the Monthly Report no 53 ○ Preparing the data for Interim Report 12 	Reports

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 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Primary data processing for Interim Report 12	Data regarding to aquatic and terrestrial ecosystems	Centralization tables
2	Data processing related to aquatic and terrestrial ecosystems for Interim Report 12	Establishing the primary statistical values	Primary statistical parameters
3	Corroboration of the results for abiotic and biotic monitoring parameters for Phase Report	Establishing 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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6.3.17 Expert position: EXPERT 3D MODELLING - PhD HELMUT HABERSACK

MONTHLY REPORT 1 - 30 September 2015

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Sediment transport simulation for Sill Bottom 0 B.S.C	Sediment transport simulation for Sill Bottom 0 B.S.C at CP01 and CP02 with iSed	Sediment simulation for Sill Bottom 0 B.S.C.
2.	Sediment transport simulation for submersed guiding wall at CP02	Sediment transport simulation for submersed guiding wall at CP02 with iSed	Sediment simulation for submersed guiding wall at CP02.
3.	Hydraulic Delft3D model calibration for the sector Vadu Oii - Braila	Hydraulic Delft3D model calibration for the second loop Vadu Oii - Braila	Hydraulic calibrated model Delft3D for the second loop Vadu Oii - Braila
4.	Other activities	Contribution to Monthly Report 53	Monthly Report 53

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