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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.65: 1 – 30 September 2016

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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MONTHLY REPORT NO.65: 1 – 30 September 2016

6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.65	<ul style="list-style-type: none"> ○ Covering issues according to AFDJ RA Galati guidelines 	Monthly Report 65
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 	
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 experts' monthly activity reports		
6	Checking and approving the documents elaborated in month 65 of the project activity		
7	Coordinate the completion of Interim Report 14		
8	Elaborate the project activities program for the next period (1 - 31 October 2016)		

Project leader,
PhD eng. Deák György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

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

MONTHLY REPORT 1 - 30 September 2016

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 (depending on chemical indicators) for soil, water and sediments; ▪ Preparation of reagents for water samples fixation in field conditions; ▪ Laboratory and field AMC calibration; ▪ Preparing a set of reagents 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 (06.09.2016; 20.09.2016)	<ul style="list-style-type: none"> ▪ Water and sediments sampling from CP01, CP02, CP10, 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 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 sediments samples
3.	SAMPLING CAMPAIGN FOR SOIL (20.09.2016)	<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 have 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"> ▪ Contribution to Monthly Report 65 drafting ▪ Contribution to Interim Report 14 drafting 	

Expert,
PhD eng. Gina GHIȚĂ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

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

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Performing the measurements campaign for noise level, campaign 65 (28, 29.09.2016)	For secondary critical points CP (03 A, 03 B, 04 A, 04 B, 07)	Point values for noise level
2.	Performing the measurements/sampling campaign for air, campaign 62 (28, 29.09.2016)	For secondary critical points CP (03 A, 03 B, 04 A, 04 B, 07)	Preliminary values for air quality indicators
3.	Other activities	<ul style="list-style-type: none"> ○ Analysis for data obtained from measurements ○ Participation to the meetings of the project implementation team, in order to plan and conduct future activities ○ Contribution to Monthly Report 65 drafting (chapters Air and Noise Monitoring) ○ Contribution to Interim Report 14 	Monthly Report 65 Interim Report

Expert,
PhD chem. Adriana BORȘ

Project leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

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

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data downloading and maintenance in CP 01, CP 02 (01, 07.09.2016) and CP 10 (28.09.2016)	Have been downloaded data from the monitoring systems and been performed maintenance activities.	Database
2	Sturgeons tagging in CP01 (01.09.2016, 06.09.2016)	Was marked with ultrasonic and anti-poaching spaghetti tag 2 specimens of starry sturgeon	Capturing, tagging and releasing sheet
3	Tracking for sturgeons tagged with VR100 device, in CP01	Sturgeon specimens have been tracked from a boat, using the VR100 to determine their post-tagging behavior.	Database
4.	Other activities	- Contribution to Monthly Report no. 65	Reports

Expert,
PhD eng. Victor CRISTEA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

6.3.5 Expert position: ICHTYOLOGIST 2 EXPERT - Other fish species - Istvan FALKA

MONTHLY REPORT 1 - 30 September 2016

Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Scientific fishing for other fish species in CP10 (28.09.2016)	Have been made electrical scientific fishing sections on Caleia, Vâlcui branches and Danube. Collected specimens were measured and weighed before being released into the aquatic environment. Fishing sections were recorded by GPS coordinated	- Fish species distribution on the monitoring areas,
2.	Data processing	Determination of relative abundance and biomass for fish species identified after scientific electrical fishing.	Indicators
3.	Other activities	Data processing for Interim Report Contribution to Monthly Report 65	Report

Expert,
PhD biologist Istvan FALKA

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

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

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing for turbidity, temperature and relative level, recorded in automatic stations in September 2016	Statistical processing of level, temperature and turbidity data recorded in September 2016, in automatic stations from the monitored sector.	Statistical indicators, turbidity and temperature variation graphs, hodographs of the relative and absolute water level, water gradients, correlations between the automatic monitoring stations.
2.	Contribution to the Monthly Report no. 65	Processing and interpretation of specific data.	Hydrology subchapter drafting 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 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN CP01 (01,02,05,06.09.2016)	Single-beam bathymetric measurements in critical point CP01 for sections profiling	Primary and processed bathymetric data, transversal bathymetric profiles
2.	MONITORING CAMPAIGN CP02 (07,08,09.09.2016)	Single-beam bathymetric measurements in critical point CP02 for sections profiling	Primary and processed bathymetric data, transversal bathymetric profiles
3.	MONITORING CAMPAIGN CP10 (19, 20, 21, 22.09.2016)	Single-beam bathymetric measurements in critical point CP10 for sections profiling	Primary and processed bathymetric data, transversal bathymetric profiles
4.	MONITORING CAMPAIGN (01, 02, 05, 06, 07, 08, 09, 19, 20, 21, 22.09.2016)	ADCP measurements for velocity and flow on the monitoring sector	Unprocessed velocities data
5.	OTHER ACTIVITIES	Contributions to Monthly Report 65	Hydromorphology Chapter and Annex 6.5
		Schedule proposal drafting for 1 - 31 October 2016	Schedule

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

6.3.8 Expert position: MACROPHYTES AND PHYTOPLANKTON EXPERT - Florica MARINESCU

MONTHLY REPORT 1 - 30 September 2016

Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES	<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 	Ensuring the conditions for sampling campaign
2.	CONDUCTING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES (06.09.2016; 20.09.2016)	<ul style="list-style-type: none"> ▪Specific sampling activities for phytoplankton and macrophytes from CP 03A, 03B, 04A, 04B, 07 ▪In field determination of macrophytes species ▪Collecting and preserving for macrophytes that was not determined on site ▪Samples fixing according to standards in force ▪Sampling bulletins completion for phytoplankton and macrophytes 	<ul style="list-style-type: none"> - 15 average phytoplankton samples (left bank, center, right bank) - 20 macrophytes samples, collected and analyzed - sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> ▪Microscopic identification of the organisms from phytoplankton composition ▪Quantitative microscopic analysis of algal units from phytoplankton composition 	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 ▪preparing the list of macrophytes species, identified in each critical point ▪calculation of density and biomass for aquatic macrophytes 	Values of quality indicators
5.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ▪Contribution to Monthly Report 65 - chapter Aquatic flora and fauna monitoring (except for ichthyofauna) 	Monthly Report 65 - Chapter F

Expert,
PhD biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CONDUCTING THE OBSERVATION CAMPAIGN REGARDING PRESENCE/ABSENCE OF LUMBRICIDES (20.09.2016)	- Have been monitored the presence/absence of lumbricides in soil samples collected from critical points locations: CP03 (A and B), CP04 (A and B) and CP07;	Observations regarding the presence/absence of the lumbricides
2.	OTHER ACTIVITIES	- Preparing the observation campaign - Assessing the distribution of lumbricides in monitoring areas - Contribution to Monthly Report 65	

Expert,
Cecilia ȘERBAN

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza FLOREA

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> ▪Preparing the 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 (06.09.2016)	<ul style="list-style-type: none"> • aquatic macroinvertebrates sampling from critical points 01, 02, 10, 03A, 03B, 04A, 04B, 07 • samples fixing and labelling • Sampling bulletins completion for aquatic macroinvertebrates 	<ul style="list-style-type: none"> - 40 sample units collected - sampling bulletins
3.	LABORATORY ANALYSIS	<ul style="list-style-type: none"> • additional sorting for benthic macroinvertebrates samples collected to select benthic organisms and to perform further investigations • qualitative and quantitative analysis for benthic macroinvertebrates collected samples 	<ul style="list-style-type: none"> ▪ 40 sorted sample units ▪ 40 analyzed sample units
4.	OTHER ACTIVITIES	<ul style="list-style-type: none"> • Calculation of abundance and numerical density for taxonomic groups for benthic macroinvertebrates • Calculation of Shannon-Wiener diversity index for macroinvertebrates samples • Compiling the list of saprobiological indicators for water quality • Graphic representation of quality data resulting from analysis of macroinvertebrates samples 	<ul style="list-style-type: none"> ▪ values of quality indicators

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 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	MONITORING CAMPAIGN FOR AVIFAUNA - AUTUMN MIGRATION (01-13.09.2016)	<ul style="list-style-type: none"> ○ First expedition for the autumn campaign. Field trip in monitored critical points areas - birds census. Ringing camp <ul style="list-style-type: none"> ▪ Observation for aquatic and migratory avifauna from the shore ▪ Observation for aquatic and migratory avifauna from the boat 	<ul style="list-style-type: none"> - observation sheets - data - photos - species lists
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Analysis and processing of data from the campaign ○ Contribution to the Monthly Report 65 drafting ○ Contribution to Interim Report 14 finalization 	Reports

Expert,
JOZSEF SZABO

Project Leader,
PhD eng. DEÁK György



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MONTHLY REPORT NO.65: 1 – 30 September 2016

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

MONTHLY REPORT 1 - 30 September 2016 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT MONITORING (28, 29.09.2016)	<ul style="list-style-type: none"> ○ field campaign in critical points areas and in secondary critical points to set out the fixed and mobile sources for noise and emissions, in order to establish the anthropization degree; 	<ul style="list-style-type: none"> - data - photos
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> ○ Contribution to Monthly Report 65 ○ Contribution to Interim Report 14 	Reports

Expert,
AMBRUS Laszlo

Project Leader,
PhD eng. DEÁK György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	ANTHROPIC IMPACT ON BIODIVERSITY MONITORING (06-09.09.2016)	Observation regarding anthropic impact on avifauna in Natura 2000 sites: <ul style="list-style-type: none"> ✓ Field campaign in critical points area and on Dobrogea lakes: Iortmac lake (ROSPA0056), Oltina lake (ROSPA0056), Dunăreni lake (ROSPA0054), Vederoasa lake (ROSPA0007), Baciul lake (ROSPA0007), Sărat lake (ROSCI0307). ✓ Observation in field, in order to establish construction sites influence on avifauna. 	
2.	OTHER ACTIVITIES	<ul style="list-style-type: none"> • Contribution to the Monthly Report no 65 • Contribution to Interim Report 14 	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 2016
Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Primary data processing for Interim Report 15	Setting of primary statistical values	Primary statistical parameters
2.	Corroboration of results for abiotic and biotic monitoring parameters for Interim Report 14	Establishing the intercorrelations between abiotic and biotic determinants	Correlation functions Quality indicators variations

Expert,
PhD Marian TUDOR

Project Leader,
PhD eng. DEÁK György