



UNIUNEA EUROPEANĂ



MINISTERUL INFRASTRUCTURII  
ȘI TRANSPORTURILOR



Națională Agency de Protecție Mediului  
județ Prahova/Brașov



Ministerul Educației și Cercetării  
2007-2013



TRANS  
MARPAS DE INOVARE, COORDONARE ȘI CALITATE

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.77: 1 – 30 September 2017

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## ANNEX 6.3.

### EXPERTS' ACTIVITY REPORTS



6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

**MONTHLY REPORT**  
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Elaboration of the Monthly Report no.77	<ul style="list-style-type: none"> <li>○ Covering issues according to AFDJ RA Galati guidelines</li> </ul>	Monthly Report 77
2	Communication of the project phase and results to the beneficiary - AFDJ Galați	<ul style="list-style-type: none"> <li>○ Elaboration of the addresses sent to AFDJ Galati</li> </ul>	
3	Coordination and checking of the field monitoring activity	<ul style="list-style-type: none"> <li>○ Checking the continuous monitoring stations, velocity measurements and bathymetry</li> <li>○ Checking the monitoring stations for sturgeons</li> <li>○ Checking the sampling campaigns</li> </ul>	
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"> <li>○ Working meetings</li> </ul>	
5	Approval of experts' monthly activity reports		
6	Checking and approving the documents elaborated in month 77 of the project activity		
7	Coordinate the completion of Interim Report 16		
8	Coordinate the drafting of Interim Report 17		
9	Coordinate the Report for post-construction phase PC10		
10	Elaborate the project activities program for the next period (1 - 31 October 2017)		

Project leader,  
PhD eng. Deák György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1	<b>ORGANISING SAMPLING CAMPAIGN FOR SOIL, WATER AND SEDIMENTS</b>	<ul style="list-style-type: none"> <li>▪ Preparation of sampling recipients (depending on chemical indicators) for soil, water and sediments;</li> <li>▪ Preparation of reagents for water samples fixation in field conditions;</li> <li>▪ Laboratory and field AMC calibration;</li> <li>▪ Preparing a set of reagents for field and laboratory analysis</li> </ul>	<ul style="list-style-type: none"> <li>▪ Ensuring the proper conditions for sampling campaign</li> </ul>
2	<b>SAMPLING CAMPAIGN FOR WATER AND SEDIMENTS (05.09.2017)</b>	<ul style="list-style-type: none"> <li>▪ Water and sediments sampling from CP01, CP02, CP 03 (A and B), CP 04 (A and B) and CP 07;</li> <li>▪ The compliance to geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples were labelled;</li> <li>▪ For each water and sediment sample was completed a registration bulletin for the sampling activity;</li> <li>▪ Field analysis were performed (pH, temperature, dissolved oxygen, turbidity) regarding water quality;</li> <li>▪ Water samples have been fixed according to actual standards to determine indicators in the laboratory.</li> </ul>	<ul style="list-style-type: none"> <li>▪ 85 water samples</li> <li>▪ 44 sediment samples</li> </ul>
3	<b>SAMPLING CAMPAIGN FOR SOIL (05.09.2017)</b>	<ul style="list-style-type: none"> <li>▪ Soil sampling from CP 03 (A and B), CP 04 (A and B) and CP 07;</li> <li>▪ The compliance to geographical coordinates for each sampling point has been checked;</li> <li>▪ The samples were labelled;</li> <li>▪ For each soil sample was completed a registration bulletin for the sampling activity;</li> </ul>	<ul style="list-style-type: none"> <li>▪ 20 soil samples</li> </ul>
4	<b>PHYSICAL- CHEMICAL LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Conducting the specific standard procedures for analytical data quality assurance.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Preliminary data regarding soil, water and sediment quality</li> </ul>
5	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Contribution to Monthly Report 77</li> <li>▪ Contribution to Interim Report 17</li> <li>▪ Contribution to Phase Report PC10</li> </ul>	<ul style="list-style-type: none"> <li>Reports</li> </ul>

Expert,  
PhD eng. Gina GHIȚĂ

Project leader,  
PhD eng. DEÁK György



6.3.3. Expert position: AIR AND NOISE MONITORING EXPERT - BORȘ ADRIANA (chemist 2)

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Measurements campaign 71 for noise level (8,19.09.2017)	For secondary critical points CP 03A, CP 03B, CP 04A, CP 04B and CP 07	Point values for noise level
2.	Conducting the measurements/sampling campaign for air, campaign 68 (8,19.09.2017)	For secondary critical points CP 03A, CP 03B, CP 04A, CP 04B and CP 07	Preliminary values for air quality indicators
3.	Other activities	<ul style="list-style-type: none"> <li>○ Participation to the meetings of the project implementation team, in order to plan and conduct future activities</li> <li>○ Contribution to Monthly Report 77 (Air and noise monitoring chapters)</li> <li>○ Data processing for Interim Report 17 drafting</li> <li>○ Contribution to Phase Report PC10</li> </ul>	Monthly Report 77 Interim Report

**Expert,**  
PhD chem. Adriana Borș

**Project leader,**  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 30 September 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Monitoring of sturgeons migration CP01 and CP02 (02,10,12,21,24.09.2017)	<ul style="list-style-type: none"> <li>- scientific fishing for sturgeons species on Borcea branch</li> <li>- ultrasonic and T-bar “antipoaching” tagging for 1 beluga, 1 diamond sturgeon and 3 starry sturgeons on Borcea branch.</li> <li>- active monitoring with VR100 for ultrasonic tagged sturgeon specimens.</li> <li>- data downloading from the monitoring systems</li> </ul>	Report
2.	Other activities	<ul style="list-style-type: none"> <li>- Contribution to Monthly Report 77.</li> <li>- Drafting the Interim Report 17</li> </ul>	Reports

**Ichthyologist Expert,**  
PhD eng. Victor CRISTEA

**Project Leader,**  
PhD eng. DEÁK György



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

## MONTHLY REPORT 1 - 30 September 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Processing and interpretation for data obtained from scientific fishing	Have been processed data from scientific fishing in May and July	- species distribution, abundance and biomass in each critical point
2.	Other activities	Contribution to Monthly Report 77 Contribution to post-construction Phase Report PC10 Contribution to Interim Report 17	Reports

**Ichthyologist Expert, other fish species**  
PhD biologist Istvan FALKA

**Project Leader,**  
PhD eng. DEÁK György



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

**MONTHLY REPORT**  
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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing for turbidity, temperature and relative level, recorded in automatic stations in September 2017	Statistical processing of level, temperature and turbidity data recorded in September 2017, in automatic stations from the monitoring 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 Monthly Report 77	Processing and interpretation of specific data.	Drafting the Hydrology subchapter, for hydromorphological monitoring activity and for Annex 6.5.

**Expert,**  
PhD eng. George POTERAŞ

**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 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1	Measurements processing for flow rates and velocities	Further processing for flow and velocity measurements from previous months	Processed flow and velocity data Velocities sections
2	OTHER ACTIVITIES	Contributions to Monthly Report 77	Hydromorphology Chapter and Annex 6.5
		Contribution to Interim Report 17 Contribution to Phase Report PC10	Schedule

**Expert,**  
PhD eng. Gh. Viorel UNGUREANU

**Project Leader,**  
PhD eng. DEÁK György





6.3.8 Expert position: MACROPHYTES AND PHYTOPLANKTON EXPERT - Florica Marinescu

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>PREPARING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES</b>	<ul style="list-style-type: none"> <li>▪ Preparing the sampling containers for phytoplankton samples</li> <li>▪ Preparing the reagents for samples preservation in field conditions;</li> <li>▪ Preparing the necessary documents for „in field” samples registration</li> </ul>	Ensuring the conditions for sampling campaign
2.	<b>CONDUCTING THE SAMPLING CAMPAIGN FOR PHYTOPLANKTON AND MACROPHYTES</b> (05.09.2017; 07.09.2017; 08.09.2017)	<ul style="list-style-type: none"> <li>▪ Specific sampling activities for phytoplankton and macrophytes from CP 03A, 03B, 04A, 04B,07</li> <li>▪ In field determination of macrophytes species</li> <li>▪ Sampling and preserving macrophytes which were not determined in the field</li> <li>▪ Samples fixation according to the standard in force</li> <li>▪ Completing the sampling bulletins for phytoplankton and macrophytes</li> </ul>	<ul style="list-style-type: none"> <li>- 15 average phytoplankton samples (left, center, right bank)</li> <li>- 20 macrophytes samples, collected and analyzed</li> <li>- sampling bulletins</li> </ul>
3.	<b>LABORATORY ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Microscopic identification of organisms in phytoplankton composition</li> <li>▪ Quantitative microscopic analysis of algal units in phytoplankton</li> </ul>	Results on quality data
4.	<b>DATA PROCESSING AND ANALYSIS</b>	<ul style="list-style-type: none"> <li>▪ Drafting the list of phytoplankton species identified in collected samples</li> <li>▪ Calculation of density and biomass for phytoplankton samples</li> <li>▪ Calculation of saprobic and Simpson diversity indices for phytoplankton samples</li> <li>▪ Drafting the list of species for macrophytes identified in each critical point</li> <li>▪ Calculation of density and biomass for aquatic macrophytes</li> </ul>	Values of quality indicators
5.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>▪ Participation to Monthly Report 77</li> <li>-Chapter aquatic flora and fauna monitoring (except for ichtyofauna)</li> <li>▪ Contribuție la raport intermediar 17, raport de faza PC10</li> </ul>	Reports

**Expert,**  
PhD biologist Florica MARINESCU

**Project Leader,**  
PhD eng. DEÁK György



### 6.3.10. Expert position: TERRESTRIAL INVERTEBRATES - Cecilia ȘERBAN

## MONTHLY REPORT 1 - 30 September 2017 Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	CONDUCTING THE OBSERVATION CAMPAIGN REGARDING PRESENCE/ABSENCE OF LUMBRICIDES  (05.09.2017)	- 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 77	

**Expert,**  
ȘERBAN Cecilia

**Project Leader,**  
PhD eng. DEÁK György



### 6.3.11 Expert position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza Florea

## MONTHLY REPORT 1 - 30 September 2017

Post-construction monitoring

No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	PREPARING THE SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES	<ul style="list-style-type: none"> <li>▪Preparing sampling containers</li> <li>▪Preparation of reagents for samples fixation in field conditions;</li> <li>▪Preparing the necessary documents for „in field” samples registration</li> </ul>	Ensuring the optimal conditions for sampling campaign
2.	SAMPLING CAMPAIGN FOR AQUATIC MACROINVERTEBRATES (07.09.2017)	<ul style="list-style-type: none"> <li>• Collecting samples of aquatic macroinvertebrates from critical points 01, 02, 03A, 03B, 04A, 04B, 07</li> <li>• Samples fixation, labelling</li> <li>• Completing the sampling bulletins for aquatic macroinvertebrates samples</li> </ul>	<ul style="list-style-type: none"> <li>▪ 34 collected sample units sampling bulletins</li> </ul>
3.	EFFECTUARE ANALIZE DE LABORATOR	<ul style="list-style-type: none"> <li>• trierea suplimentară a probelor de macronevertebrate bentonice prelevate pentru a selecta organismele bentonice și pentru a realiza investigațiile ulterioare</li> <li>• analiza calitativă și cantitativă a probelor de macronevertebrate bentonice (14 probe)</li> </ul>	<ul style="list-style-type: none"> <li>▪ 34 selected sample units</li> <li>▪ 14 analyzed sample units</li> </ul>

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 2017 Post-construction monitoring

No .	ACTIVITIES	DESCRIPTION	RESULTS
1.	<p style="text-align: center;"><b>MONITORING CAMPAIGN FOR AVIFAUNA - AUTUMN MIGRATION</b></p> <p style="text-align: center;">(04-08, 11-15, 18- 20.09.2017)</p>	<ul style="list-style-type: none"> <li>○ Field campaign in main and secondary critical points</li> <li>○ <ul style="list-style-type: none"> <li>▪ Census of aquatic avifauna - assessments from the shore and from the boat</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>○ observation sheets;</li> <li>○ data</li> <li>○ photos</li> <li>○ lists of species</li> </ul>
2.	<p style="text-align: center;"><b>OTHER ACTIVITIES</b></p>	<ul style="list-style-type: none"> <li>○ Analysis and processing the data from campaign</li> <li>○ Contribution to Monthly Report 77</li> <li>○ Contribution to Interim Report 17</li> </ul>	<p style="text-align: center;">Reports</p>

**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.	<b>ANTHROPIC IMPACT MONITORING</b> (08, 19.09.2017)	<ul style="list-style-type: none"> <li>○ field campaign in main 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;</li> </ul>	<ul style="list-style-type: none"> <li>- data</li> <li>- photos</li> </ul>
2.	<b>OTHER ACTIVITIES</b>	<ul style="list-style-type: none"> <li>○ Contribution to Monthly Report 77</li> </ul>	Reports

**Expert,**  
AMBRUS Laszlo

**Project Leader,**  
PhD eng. DEÁK György



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### 6.3.15. Expert position: Assessment/Monitoring the impact on biodiversity - HOLBAN Elena (ecologist 2)

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	<b>MONITORING OF ANTHROPIC IMPACT ON BIODIVERSITY</b>  (11-15.09.2017)	Observation on anthropic impact on Natura 2000 avifauna: <ul style="list-style-type: none"> <li>✓ Field campaign in critical points and dobrogean lakes area: Iortmac lake (ROSPA0056), Oltina lake (ROSPA0056), Dunăreni lake (ROSPA0054), Vederoasa lake (ROSPA0007), Baciulake (ROSPA0007), Sărat lake (ROSCI0307).</li> </ul>	
2.	<b>Other activities</b>	<ul style="list-style-type: none"> <li>○ Contribution to Interim Report 17</li> </ul>	Report

**Expert,**  
PhD Elena Holban

**Project Leader,**  
PhD eng. DEÁK György



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

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No.	ACTIVITIES	DESCRIPTION	RESULTS
1.	Data processing related to aquatic and terrestrial ecosystems for Interim Report 17	Determination of primary statistical values	Primary statistical values
2.	Corroborate the monitoring results for abiotic and biotic parameters for Interim Report 17	Determination of intercorrelations between abiotic and biotic determinants	Correlation functions
3.	Data processing for Phase Report on post-construction in CP10	Establishing primary statistical values	Statistical parameters

**Expert assessor,**  
 PhD Marian TUDOR

**Project Leader,**  
 PhD eng. DEÁK György