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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. 49: 1 – 31 May 2015

ANNEX 6.3.

EXPERTS' ACTIVITY REPORTS



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6.3.1. Expert position: PROJECT LEADER EXPERT- Deák György

MONTHLY REPORT 1 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|--|---|-------------------|
| 1 | Elaboration of the Monthly Report no.49 | <ul style="list-style-type: none"> ○ Covering issues according to AFDJ Galati guidelines | Monthly Report 49 |
| 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 49 month of project activity | | |
| 7 | Coordinate the completion of Interim Report 11 | | |
| 8 | Elaboration of the project activities program for the next period (1 - 30 June 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 1 - 31 May 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 (27.05.2015) | <ul style="list-style-type: none"> ▪ Water and sediments sampling from CP 01, and CP 02 ▪ 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"> ▪ 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 49 ▪ Participation at the Interim Report 11 | Reports |

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 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|---|---|--|
| 1. | Measurements campaign for noise level, 49 campaign (5,15.05.2015) | For main critical points CP 01 and CP 02 | Punctual values of noise level |
| 2. | Measurements/sampling campaign for air, campaign no.46 (5,15.05.2015) | 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 49th Monthly Report (Chapters: Air and Noise Monitoring) ○ Contribution to Interim Report 11 | Monthly Report no 49 |

Expert,
PhD chem. Adriana Borș

Project leader,
PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|---|---|---|
| 1 | Tagging of sturgeons and barbell: - CP01: 2, 4, 5, 6, 9, 14, 25.05.2015 - CP10: 2, 4, 6.05.2015 | Have been tagged 35 sturgeons specimens (1 beluga, 1 sturgeon, 33 starry sturgeon) and 6 barbell specimens | Tagging sheets for sturgeons and barbell |
| 2 | Velocities measurements in habitats: - CP01: 03, 04.05.2015 - CP10: 06.05.2015 | Have been made measurements in order to determine velocities in breeding and feeding habitats, from CP01 and CP10 | Measurements |
| 3 | Benthos samples collecting: - CP10: 04.05.2015 | Have been collected samples from feeding habitats in CP10 for laboratory analysis | Samples collected |
| 4 | Data downloading and maintenance: - 03, 06.05.2015 | Have been downloaded data from monitoring systems and performed maintenance activities. | Data obtained from the monitoring systems |
| 5 | Other activities | Contribution to Monthly Report no. 49 Initial data processing from monitoring systems | Reports |

Expert sturgeons ichthyologist,
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 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|--|---|--|
| 1. | Shad migration monitoring 04, 05, 06.05.2015 | Fishing with nets in critical point 10 area Obtaining biometric data by specific measurements and collecting scale samples for age determination. GPS coordinates for identification in GIS system of the fishing nets. Fishing with ichtyoplanktonic net, bongo-net type. | - shad distribution on monitoring areas - structure on size and age classes - identification for shad larvae |
| 2. | Other activities | Contribution to the Monthly Report no. 49 Contribution to Interim Report 11 Initial data processing | Reports |

Expert ihtilog, other fish species,

PhD. biol. FALKA Istvan

Project Leader,

PhD eng. DEÁK György



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

MONTHLY REPORT 1 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|---|---|---|
| 1. | Turbidity, temperature and relative level data processing, recorded in the automatic stations in May 2015 | Statistical processing of level, temperature and turbidity data recorded in May 2015 at 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 49 | 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 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|---|---|--|
| 1. | MONITORING CAMPAIGN (04-07, 11-15, 21, 22, 25-28.05.2015) | Single-beam bathymetric measurements in main critical points and on the monitoring sections | Raw and processed bathymetric data, transversal bathymetric profiles |
| 2. | MONITORING CAMPAIGN (04-07, 11-15, 21, 22, 25-28.05.2015) | Weekly water velocity measurements on 5 transversal sections near the automatic monitoring stations for turbidity and level at critical points CP01-CP02-CP10 | Unprocessed velocity data |
| 3. | OTHER ACTIVITIES | Continuation of flow and velocity measurements processing from previous months. | Processed velocity and flow data Velocities sections |
| 4. | OTHER ACTIVITIES | Contributions to the Monthly Report no. 49 | Hydro-morphology Chapter and Annex 6.5 |
| | | Schedule drafting for 1 - 30 June 2015 period | Schedule |

Expert,
PhD eng. Gh. Viorel UNGUREANU

Project Leader,
PhD eng. DEÁK György



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6.3.8 Expert position: MACROPHYTES AND PHYTOPLANKTON EXPERT - Florica Marinescu

MONTHLY REPORT 1 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|--------------------------------|---|-------------------------|
| 1. | PERFORMING LABORATORY ANALYSIS | ▪Spectrofotometric determination for “chlorophyll <i>a</i> ” for water samples collected from CP 01 and CP 02 | Results on quality data |
| 2. | OTHER ACTIVITIES | ▪Contribution to Interim Report 11 completion | Report |

Expert,
PhD biologist Florica MARINESCU

Project Leader,
PhD eng. DEÁK György



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6.3.11 Expert Position: AQUATIC MACROINVERTEBRATES EXPERT - Luiza FLOREA

MONTHLY REPORT 1 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|------------------------------|---|---|
| 1. | DATA ANALYSIS AND PROCESSING | <ul style="list-style-type: none"> ▪ Interpretation and graphical representation for quality data resulted from aquatic macroinvertebrates samples analysis ▪ Contribution to Interim Report 11 | <ul style="list-style-type: none"> ▪ Quality indicators values |

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 1 - 31 May 2015

| NO. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|--|--|---|
| 1. | MONITORING AVIFAUNA CAMPAIGN FOR SPRING SEASON (18-29.05.2015) | <ul style="list-style-type: none"> ○ Field campaign in CP01 <ul style="list-style-type: none"> ▪ Assessment on linear trails (transects) and observation points (point count) ▪ Observation for aquatic and migratory avifauna from the shore ○ Field campaign in CP02 <ul style="list-style-type: none"> ▪ Assessment on linear trails (transects) and observation points (point count) ▪ Observation for aquatic and migratory avifauna from the shore ○ Field campaign in CP10 <ul style="list-style-type: none"> ▪ Assessment on linear trails (transects) and observation points (point count) ▪ Observation for aquatic and migratory avifauna from the shore ○ Field campaign in CP03 <ul style="list-style-type: none"> ▪ Assessment on linear trails (transects) and observation points (point count) ▪ Observation for aquatic and migratory avifauna from the shore ○ Field campaign in CP04 <ul style="list-style-type: none"> ▪ Assessment on linear trails (transects) and observation points (point count) ▪ Observation for aquatic and migratory avifauna from the shore ○ Field campaign in CP07 <ul style="list-style-type: none"> ▪ Assessment on linear trails (transects) and observation points (point count) ▪ Observation for aquatic and migratory avifauna from the shore | <ul style="list-style-type: none"> ○ observation sheets; ○ data ○ images ○ lists of species |
| 2. | OTHER ACTIVITIES | <ul style="list-style-type: none"> - Contribution to the Monthly Report no. 49 (chapter G și H) - Contribution to the Interim Report no 10 and 11 - 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 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|--|--|--|
| 1. | MONITORING CAMPAIGN OF THE ANTHROPIC IMPACT (05, 25.05.2015) | <ul style="list-style-type: none"> ○ field campaign in critical points CP01, CP02 areas to establish fixed and mobile sources of noise and emissions; ○ field campaign in order to establish the anthropization level in the area of the construction site; ○ checking the construction 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 49 ○ Program proposal for the next period activities | Monthly Report no. 49 |

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 1 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|---|--|--|
| 1. | ANTHROPIC IMPACT ON BIODIVERSITY MONITORING | <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. <p>Observation in field, in order to establish construction sites influence on avifauna.</p> | <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. 49 ○ Contribution to the completion of Interim Report no. 10 ○ Data processing for Interim Report 11 | 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 - 31 May 2015

| No. | ACTIVITIES | DESCRIPTION | RESULTS |
|-----|--|--|---|
| 1 | Primary data processing for Interim Report 11 | Data regarding aquatic and terrestrial ecosystems | Centralization tables |
| 2 | Data processing related to aquatic and terrestrial ecosystems for Interim Report 11 | 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 3D MODELLING - prof.dr. HELMUT HABERSACK

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| No | ACTIVITY | DESCRIPTION | RESULTS |
|----|---|---|---|
| 1. | Restart with setup of sediment transport model iSed CP01 and CP02 | Analysis and initial preparation of the input data for the setup of the sediment transport model iSed | First step to setup the sediment transport model at CP01 and CP02 |
| 2. | Modelling with Delft3D of Danube stream action near banks at CP02 for flow situations from May 2015 | Water flow modelling and tendencies of local effects near banks at CP02 for flows encountered in May 2015 | Results of numerical simulations |
| 3. | Data fill in for modelling on the basis of measurements | Data processing activities for measurements on the Danube and preparation of datasets for modelling | Data processing for modelling, based on measurements |
| 4. | Other activities | Participation in elaboration of Monthly Report 49 | Monthly Report 49 |

Expert,
Dr. Helmut HABERSACK

Project coordinator,
Dr. ing. DEÁK György