

TWINNING INTERIM QUARTERLY REPORT NUMBER 2



EUROPEAN COMMISSION

**TWINNING PROJECTS
INTERIM QUARTERLY REPORT**

Project Title: “Capacity Building in the Directorate of Water”

Partners: Ministry for Environment, Nature Conservation and Nuclear Safety of the Federal Republic of Germany (BMU)

Ministry for Agriculture, Forestry and Water Management of the Republic of Serbia, Directorate for Water (MAFWD)

Date: .12.2006

Signature of BC Project leader

Signature of MS Project leader

Section 1: Project data

Twinning Contract Number	SR2005/IB/EN/01
Project Title:	“Capacity Building in the Directorate of Water”
Twinning Partners (MS and BC)	Ministry for Environment, Nature Conservation and Nuclear Safety of the Federal Republic of Germany (BMU) and Ministry for Agriculture, Forestry and Water Management of the Republic of Serbia, Directorate for Water (MAFWD)
Report Number:	2
Period covered by the report:	24 August 2006 to 23 November 2006
Duration of the project:	24 Months
Rapporteur:	Dr. Nikola Marjanovic (MAFWD) and Heinz-Jochen Poremski (BMU)

Section 2: Content

2A – BACKGROUND

Policy Developments

Expected since 2000, the new constitution of the Republic of Serbia was agreed among parliamentary parties in September and put on a referendum on October 28th and 29th. After receiving a positive answer, the constitution was declared in the building of the former federal parliament on November 8th 2006. On the same date, European Commission published its annual report and the part on Serbia included positive comments about the current situation. On November 10th 2006 the parliament accepted the resignations of three ministers and vice prime minister from coalition government of Prime Minister Mr. Kostunica following the politics of their party, G17, to leave the government if the EU integration process is not refreshed until a particular deadline. Among the resigned ministers is the Minister of Agriculture, Forestry and Water Management. To cover the functions of the resigned ministers in the period until the new government is formed, the government of Mr. Kostunica appointed the three ministers to be the coordinators for corresponding ministries. Coordinator for Ministry of Agriculture, Forestry and Water Management is Mr. Predrag Bubalo, currently also heading Ministry for Economy.

The decision to have parliamentary elections on January 21st 2007 was processed.

From the National Investment Plan the funds which are going to be allocated for water for 2006 and 2007 are the following: for the water supply 15.547.615 €, for the collection, transport and waste water treatment 5.764.280,-- €, for flood protection infrastructure 9.052.364,-- € and for the water supply of the municipalities of Zrenjanin, Kikinda, Becej and Novi Becej 14.000.000,-- €

Project Assumptions

This Twinning project purposes to upgrade Serbia's institutional capacity to be able to implement and enforce the guiding principles of the EU's Water Framework Directive and related legislation. The overall objectives of this project are:

- Development of capacity in the WD to implement WFD and relevant water directives.
- Improve the organisation of the WD
- Improve public awareness.
- To upgrade the existing monitoring system up to EuroWaternet standards.
- To strengthen the capacity of Serbian institutions engaged in water monitoring.

In order to achieve these wider objectives, the project will be carried out in 7 Components (besides Component 0: Project Co-ordination):

- Training Plan prepared and under implementation. (Sub-Component 1.1)
- Pilot application of the WFD under implementation. (Sub-Component 1.2)
- Action Plan for legal alignment with the Acquis Communautaire prepared and being implemented.(Sub-Component 1.3)
- Human Resource management Capacity established in water Directorate. (Sub-Component 1.4)
- WFD awareness programme implemented. (Sub-Component 1.5)
- Detailed Strategy for upgrading the water monitoring system prepared (including detailed list of equipment and infrastructure requirements together with a budget and financial plan) and under implementation. (Sub-Component 2.1)
- Inter- and intra-organisation communication procedures and systems implemented. (Sub-Component 2.2)

2B – ACHIEVEMENT OF MANDATORY RESULTS

It is expected that the contents of this Twinning project will contribute substantially to achieving some of the wider objectives of Serbian Water Management and will lead to the following results:

- Training needs identified and prioritized.
- Training Plan including a time schedule for implementation and Training Material prepared and disseminated.
- First training units implemented within the scope of the Twinning project.
- Components of River Basin Management Plan prepared for a Pilot River basin implemented.
- Action Plan and Draft legislation elaborated and agreed in the water administration.
- Human Resource management staff appointed in Water Directorate, HRM procedures in operation.
- Awareness strategy relating to goals, target groups, media and measures including a time schedule elaborated.
- Key messages developed and WFD awareness campaign launched.
- Two events for raising awareness on WFD with stakeholders carried out.

- Strategy document adopted as Conclusions of the Government. Identified upgrading of the monitoring programmes and systems taking place.
- Communication procedures and systems, Standard Operating procedures and Quality Management Systems installed.

Three of the benchmarks above related with the mandatory results have been achieved so far. The works for achieving it are in progress.

2C – ACTIVITIES IN THE REPORTING PERIOD

The following table reveals the current status of activities and benchmarks.

Table 1: Activities completed and benchmarks delivered

Activity	Benchmark	Status
Component 0: Project Coordination		
0.1 Project set-up	RTA offices installed and operable. Relevant contact persons identified and contacted by project month 1	Done
0.2 Kick-off meeting	All project partners informed on the project work plan, time schedule and the further proceedings by project month 2	Done
0.3 Coordination with parallel projects and the International Commission for The Protection of the Danube (ICPDR)	Regular meetings with representatives of parallel projects in the water sector carried out and information disseminated in project month 4, 10, 17	Ongoing
0.4 Wrap-up workshop	Project results summarised and disseminated. Further steps for the harmonisation of the Serbian water sector with EU requirements identified by project month 23	
Component 1: Strengthening the institutional capacity of the Directorate for Water and related institutions		
Sub-Component 1.1: Assessment of institutional capacities and planning of training activities		
	Training Plan and Training Material prepared and disseminated.	
1.1.1 Assessment of the institutional structures and review of achieved training by the WD and Hydromet in the field of River Basin Management Planning	Assessment report on the current institutional situation, training status and training needs for WD and Hydromet staff elaborated and agreed by project month 3	Started
1.1.2 Establishment of joint working group with WD and Hydromet	First meeting of the joint working group carried out and meeting schedule fixed by project month 4	Done

1.1.3 Formulation of a training plan	A training plan for the staff of WD and Hydromet (department for hydrology and department for environmental control) is elaborated by project month 5	Started
1.1.4 Preparation of training material	Training material is developed and agreed by project month 3 – 19 parallel to the training sessions in the specific activities	
Sub-Component 1.2: Joint elaboration of a RBMP for the pilot small river basin	Components of River Basin Management Plan prepared for a Pilot River basin.	
1.2.1 Introduction of conceptual issues for the implementation of the Water Framework Directive	3 seminar series for the implementation of River Basin Management Planning (I Characterisation of river basins and programmes of measures, II Monitoring, III GIS and Reporting) held. Relevant staff at the WD and Hydromet trained by project month 14	
1.2.2 Characterisation of the river basin district, review of the environmental impact of human activity and economic analysis of water use (Article 5 WFD)	Characterisation of the pilot small river basin according to article 5 of the WFD delivered by project month 12.	
1.2.3 Formulation of a monitoring programme of surface water and ground water status according to WFD and Serbian legal requirements in the small river basin.	Monitoring Programme for the pilot small river basin developed and disseminated in the WD and Hydromet and involved institutions by project month 17.	
1.2.4. Formulation of the programme of measures (Article 11 WFD) for the RBMP	Programme of measures for the pilot small river basin developed by project month 21.	
1.2.5 Mapping out water resources in the pilot river basin with the help of GIS techniques.	RBMP maps according to Annex 7 of the WFD are prepared month 20.	
1.2.6 Study tour on surface and groundwater monitoring and the use of GIS	5-day study tour for 10 persons from the WD and Hydromet implemented and potential technical and administrative solutions for Serbian monitoring system identified by the participants in project month 3.	Done
Sub-component 1.3 Developing of action plans for the alignment of legislative, administrative and financial measures in the water sector	Action Plans and Draft legislation elaborated and agreed in the water administration.	
1.3.1 Gap analysis of the existing legal framework in the water sector in Serbia	Gap analysis of the Serbian water legislation with regard to the harmonisation with the acquis communautaire is elaborated by project month 6.	Started
1.3.2 Preparation of the transposition of key directives	Central elements for the transposition of the selected key directives formulated and agreed in the water administration by project month 9.	

1.3.3 Upgrading administrative structures for enforcement	An action plan for administrative restructuring of the Serbian water administration according to the harmonisation needs is prepared and disseminated by project month 15.	
1.3.4 Development of a financial plan	Support to the elaboration of long-term financial plan for the harmonisation process with the EU is accomplished by project month 19.	
Sub-Component 1.4 Human Resources Development	Human Resource management staff appointed in Water Directorate and Hydromet, HRM procedures in operation.	
1.4.1 Restructuring of the administrative units responsible for human resource development	Core team for recruitment, HR development and motivation established and trained in a 1-week seminar on personnel management instruments by project month 4.	
1.4.2 Elaboration of a human resource development strategy	A human resources development strategy is elaborated and agreed between the partners by project month 21.	
Sub-Component 1.5 Design of a WFD public awareness programme	Awareness programme, Awareness raising materials and events implemented.	
1.5.1 Assessment of obstacles and opportunities for public participation in the implementation of the WFD	Assessment report on public participation elaborated by project month 11.	
1.5.2 Design of a multi-level awareness strategy	Awareness strategy relating to specific goals, key target groups, mix of medias and selection of measures including time frame elaborated by project month 13.	Started
1.5.3 Implementation of the public awareness programme	Key messages developed and WFD awareness campaign launched by project month 13. 2 stakeholder seminars with participation of the administrations, industry, NGOs, researchers involved in the water sector held by project month 14 and 20. Interim evaluation of awareness undertaken for a key target group by project month 22.	

Component 2: Support for the upgrading of the Water Monitoring system in Serbia	Strategy document adopted as Conclusions of Government. Identified upgrading taking place.	
Sub-Component 2.1 Enhancing monitoring system and laboratory capacity		
2.1.1 Review of the existing monitoring programmes and facilities (measuring stations, i.e. monitoring sites) for surface water, groundwater and hydrological observations, i.e. water level, discharge, sediment transport	Monitoring programme and facilities reviewed and recommendations developed and agreed by project month 3.	Ongoing
2.1.2 Redesign of the monitoring programme and observation network and sampling design for surface water, ground water hydrological observations, i.e. water level, discharge, sediment transport	Monitoring network for monitoring surface and groundwater meeting WFD and Eurowaternet requirements agreed by project month 8.	Ongoing
2.1.3 Technical Implementation plan for enhancing the monitoring system and the monitoring facilities (hardware)	Specifications for the preparation of the tender of the equipment for water monitoring / testing by project month 8.	Started
2.1.4 Training of personnel involved in Water Monitoring	2-week intensive training on monitoring issues for 2 persons from Hydromet in Germany and transfer of specialised know-how on the operation of automated monitoring stations undertaken by project month 9.	
2.1.5 Development of a field handbook of methods for the collection, preservation and transportation of water samples.	Manual for (Serbian) procedures in collection, preservation and transportation of water samples drawn up as draft by project month 16.	
2.1.6 Technical implementation plan for enhancing the laboratory equipment and capacity	Hardware needs identified and agreed, cost estimation, investment needs and operating costs identified by project month 12.	Started
2.1.7 Training of laboratory staff in processing/handling of samples and analytical techniques.	Relevant staff at Hydromet trained and training progress evaluated by project month 14.	
Sub-Component 2.2 Enhancing organisational capacity of institutions undertaking water monitoring	Communication procedures and systems, Standard Operating procedures and Quality management Systems installed.	
2.2.1 Assessment of intra- and inter-institutional communication procedures and data management	Existing communication procedures described and gaps analysed by project month 6.	Started
2.2.2 Improvement of communication between the institutions by the elaboration of standard communication /reporting procedures and systems	Recommendations for the improvement of communication procedures formulated and agreed by project month 12.	
2.2.3 Quality assurance/control of the documentation of monitoring results and data	Guidance document for quality control system of monitoring results and data developed by project month 19.	

Component 0: “Project Set-up”

Activities 0.1 “Project Set-up”

On 23 October 2006 the RTA-Team moved into 2 office rooms that are provided by the Serbian partners. The rooms are located in the so called SIV 3 building which is located in Omladinskih brigada 1a, very close to the Serbian Water Directorate in New Belgrade. The working places of the Short-term Experts during their missions to Belgrade are still organised and financed privately.

With the establishment of the office rooms the RTA-Team focussed on speeding up to hail the lateness resulting from the first project quarter. Of course it was not possible to get completely back into the foreseen time table scheduled in the contract. But the team is on a good way to arrange it soon.

To familiarise a broader part of the staff acting in the Serbian water administration with the aim of the project Component 1 two additional workshops were carried out: one giving a general overview over the WFD, the other one showing an approach to an ideal administration structure for the requirements of the WFD. Both workshops offered a good opportunity to contact further institutions handling water issues in Serbia, in particular Srbjivode and Vode Voivodine. The documents of these workshops are attached as Annex .

On 12 September 2006 the 1st Steering Committee Meeting took place. The minutes of this meeting are attached as Annex .

Both RTAs met Mr. Simon Davies and Mr. Branko Mikasinovic (EAR) on 8 November 2006. The participants agreed to organise such informal meetings more frequently. Now it is planned to come together once a month for settling a sound information flow about the project.

Activity 0.3: Coordination with other projects and the International Commission for the Protection of the Danube (ICPDR).

Meanwhile, the RTA's were successful to arrange a fruitful co-operation with the Dutch colleagues of the Twinning project SR 04 AG 01 at the MAFWM. The unselfish exchange of their experiences underlines their commitment also to this project and has been approved by all involved experts. The documents produced by the Regional Sava CARDS project were

used to include the respective findings/results of this project into the assessment and the preparation of the redesign of the corresponding monitoring programs/systems for and groundwater and surface water.

Sub-Component 1.1: “Assessment of institutional capacities and planning of training activities”

Missions related to Activity 1.1.1:

Title: “Assessment of the institutional structures and review of achieved training by the WD and Hydromet in the field of River Basin Management Planning”

During the reporting period two missions were carried out to start with the assessment of the Training needs in the Serbian water administration. It was planned to organise a workshop on training needs on 22nd of November, but due to unavailability of the German and Serbian experts (particularly the postponed study tour took place) it is postponed to 24 January 2007. Two further missions are taking place still in November 2006. The results of both these missions and the workshop will be considered in the next Quarterly Report.

Duration: 10 days

Participants: 2 STEs (Mr. Kessler, Mr. Domroese), representatives from Directorate for Water, Srbijavode, Vode Voivodine, RTA 1 Mr. Heuberger

Mission related to Activity 1.1.2:

Title: „Establishment of joint working group with WD and Hydromet”

From the 4th to the 8th of September short term expert Mr. Peter Kessler carried out a mission in order to help identifying the members of the joint working group. In addition to the contract the Twinning partners agreed to involve besides WD and Hydromet also the institutions Srbijavode and Vode Voivodine into this group. Finally, four persons representing four institutions concerning with water affaires are named. The group is co-chaired by RTA 1 and his counterpart. On 19th of October 2006 the constitutive meeting was held. On 13th of November 2006 the first meeting took place. The minutes of both meetings and the letter of appointment are attached as Annex.

Duration: 5 days

Participants: 1 STE (Mr. Kessler), 2 from Directorate for Water (Mrs. Olivera Grozdic, Mrs. Valentina Mileusnic, Counterpart RTA 1), 1 from Hydromet (Mrs. Milica

Nadezdic), 1 from Srbjivode (Mr. Arpad Varga), 1 from Vode Voivodine (Mr. Nenad Stefanovic), RTA 1 Mr. Heuberger

Mission related to Activity 1.1.3:

Title: „Formulation of a Training Plan”

In order to structure the Training Plan and to give advices for the formulation of the Training Plan short term expert Ms. Barbara Unger started with Activity 1.1.3 from 13th to 16th of November 2006, even Activity 1.1.1 was not terminated yet. She took part in the first meeting of the joint working group and gave first hints to the draft of a training plan. The closer details about this activity will be submitted with the 3rd Quarterly Report.

Duration: 5 days

Participants: 1 STE (Ms. Unger), RTA 1 Mr. Heuberger

Mission related to Activity 1.2.6:

Title: „Study tour on surface and groundwater monitoring and the use of GIS”

A study tour for 10 BC experts from the WD and Hydromet was organised between the 19th to the 25th of November. The study tour took the visitors to see the automated measuring station operated by three Federal Laender of Germany on the Rhine in the City of Worms. In the course of the study tour different German institutions involved in groundwater and surface water in the State of Hesse and the City of Hamburg were visited. The visit was very successful and the response as well as the preparation of the sites and “what to see” was very positive. In the course of the study tour it became clear to all participants that planning and operating of monitoring stations is a very complex matter and must be correspondingly addressed by the Serbian institutions. This is to consider particularly when purchasing corresponding equipment. It revealed on the visiting site that every station visited was tailor made according to the specific setting and needs at the monitoring site.

The RTA wants to acknowledge the help and assistance of the German institutions involved and the commitment of their staff to make the study tour a successful and fruitful experience. It is to stress that study visits are very helpful in order to show in an applied and instructive form how certain things in water resource management and protection are taken forward. The experience and the positive response from all the participants should be taken as encouragement to carry out a second study tour if possible. Everyone perceived the five days in Germany as a helpful experience. Not only stories of success were told and shown

but also the mishaps when the automated stations were designed in Germany by the German colleagues. The programme of the study tour, participants list and study tour report are annexed to the report.

Duration: 5 days

Participants: 6 from Hydromet, 4 from the Directorate for Water, RTA 2 Assistant Ms. Nastasijevic, RTA 2 Mr. Ebel

Sub-Component 1.3: “Developing of action plans for the alignment of legislative, administrative and financial measures in the water sector”

Mission related to Activity 1.3.1:

Title: „Gap analysis of the existing legal framework in the water sector in Serbia”

Short term expert Dr. Spuller started to analyse the given legal situation concerning the Serbian water administration. Unfortunately, he was provided with a not updated version of the draft of the new Water Act. With mutual endeavours the involved short term experts will make up for the lost time. Both experts, Ms. Stottmeister and Dr. Spuller argued for a joint workshop with all involved participants of the Serbian Water Act. This workshop is planned to take place on 28th of February 2007.

Duration: 15 days

Participants: 2 STE (Dr. Spuller, Ms. Stottmeister), 2 from Directorate for Water, 2 from Institute “Jaroslav Cerni”, RTA 1 Mr. Heuberger

Mission related to Activity 1.5.2:

Title: „Design of a multi-level awareness strategy”

Short term expert Ms. Franken started to prepare the conditions of a proper public awareness strategy. Based on an assessment of the given conditions Serbian and German experts will develop an adequate strategy. Closer particularities will be reported in one of the next reports.

Duration: 5 days

Participants: 1 STE (Ms. Franken), 1 from Directorate for Water, RTA 1 Mr. Heuberger

Sub-Component 2.1: “Enhancing monitoring system laboratory capacity”

Missions related to Activity 2.1.1:

Title: “Review of the existing monitoring programmes and facilities (measuring stations, i.e. monitoring sites) for surface water, groundwater and hydrological observations, i.e. water level, discharge, sediment transport”

The review of the existing monitoring systems for groundwater and surface water were carried out by the respective teams. STE Mrs. Sommerwerk and STE Mr. Peter Seel reviewed the surface water monitoring system (Missions took place 28th August to 1st of September and 23rd to 27th of October 2006). Both experts visited selected monitoring sites in the Kolubara river catchment guided by the surface water experts of Hydromet.

The corresponding was done for the groundwater monitoring system by the STE Mr. Neumann (Mission 21st to 25th of August) and Mr. Domroese (Missions 21st to 25th of August and 13th to 17th of November). Within their first mission selected stations of the ground water measuring network were visited within a field trip in the Kolubara River guided by colleagues of Hydromet.

At the moment the elaboration of the recommendation paper for this activity is under way which will formally reflect the benchmark of this activity. It is envisaged to finalise this paper as draft until December 20th. The final recommendation paper shall be used as kick-off milestone paper for the redesign of the monitoring networks and parameters. Due to the specific holiday situation in December and January the workshop opening the redesign process is planned between the 22nd and 26th of January.

The RTA would like to acknowledge the good cooperation and provision of information of all parties involved in this activity.

Duration: 35 days

Participants: STE Sommerwerk (10 days), STE Seel (10 days), STE Domroese (10 days), STE Neumann (5 days), Institute “Sinisa Stankovic”, Institute “Jaroslav Cerni”, Directorate for Water, Hydromet

Missions related to Activity 2.1.2:

Title: "Redesign of the monitoring programme and observation network and sampling design for surface water, groundwater, hydrological observations, i.e. water level, discharge, sediment transport."

The mission of STE Mr. Berthold took place parallel to the missions of Mr. Domroese and Mr. Neumann mentioned under activity 2.1.1. The mission of Mr. Berthold aimed at creating contacts to the involved institutions and Serbian partners and to get orientated about the pilot region of the Kolubara river catchment and the works carried out to prepare and collect information for the redesign at an early stage of this project. He also participated in the field visit of the catchment area together with STEs Mr. Domroese and Mr. Neumann and contributed to the assessment report of the groundwater monitoring system.

The work on the redesign of the monitoring system for groundwater is envisaged to be continued with two missions of Mr. Domroese and Mr Neumann between the 14th to the 22nd of December in order to discuss the elements of the draft of the recommendation paper with the corresponding counterparts at Hydromet and Directorate for Water. The missions are scheduled in order to speed up the redesign of the groundwater monitoring system next year.

Duration: 5 days

Participants: STE Berthold, Institute "Jaroslav Cerni", Directorate for Water, Hydromet

Missions related to Activity 2.1.3:

Title: "Technical implementation plan for enhancing the monitoring system and the monitoring facilities (hardware)."

The missions of STEs Mr. Blohm and Mr Anke took place between the 4th to the 8th of September 2006. Mr. Blohm and Mr. Anke gave an introductory public presentation to possible technological solutions concerning the equipment of automated measuring stations in surface water monitoring. The presentation counted with an audience of approximately 20 experts from Serbian institutions. It became obvious that a step by step approach concerning the technical upgrading of observation systems could be a suitable and successful approach. Within a field visit guided by colleagues of Hydromet Mr Blohm and Mr. Anke inspected selected monitoring sites in the Kolubara river catchment where hydrological measurements are actually carried out. At the moment no automated monitoring station for surface water quality assessment is operating in Serbia. Nevertheless the monitoring point at Beli Brod (Kolubara river) was identified as a possible spot allowing to install a simple pilot automated

station in order to train the Serbian colleagues with the maintenance and operation of such sophisticated devices. The existing construction and supply with electricity and telephone makes this locality a favourable choice for a first pilot experience with automated stations. It became clear that the spots to install automated monitoring systems in future require a thoroughly investigative measuring approach to enable the station to produce the required representative results.

Duration: 10 days

Participants: STE Mr. Blohm, STE Mr. Anke, 15 of Hydromet, 3 from the Institute "Jaroslav Cerni", Water Directorate

Missions related to Activity 2.1.6:

Title: "Technical implementation plan for enhancing the laboratory equipment and capacity"

During the short term missions of Mr Bergholz and Mr. Seel the main players and their respective laboratories for water analysis were visited. The experts found out that the laboratory of Hydromet is well equipped and supplied with instrumental analytical equipment which is purchased i.e. funded through the European Agency of Reconstruction. The experts visited also related laboratories in the field of water analysis (the laboratories of the Hydromet, the laboratories of the Water Control Department – the laboratories of the Belgrade Waterworks, the laboratories of the Institute for Public Health of Serbia "Dr. Milan Jovanovic Baturt", the laboratories of the Institute of Public Health of Belgrade) in order to obtain impressions about the different laboratories.

During the visit of the laboratories of the Hydromet it became clear that one focus of enhancing the laboratory performance may consist of improving the collection and handling (logistic chain) of water samples before the samples are analysed in the laboratory. Shortcomings are identified with the preservation, storage and handling of the corresponding samples. It was decided to concentrate the upcoming efforts to improve the given situation of the laboratories of Hydromet as central competent monitoring institution for groundwater and surface water. One additional German expert in coupled high pressure liquid chromatography mass spectrometry analytics was added to the STE team. This was done in order to address the needs of the Serbian partners in the field of organic micro pollutant analytics.

This activity started earlier than foreseen in the time plan. As activity 2.1.6 is closely related with activity 2.1.7 “Training of laboratory staff in processing/handling of samples and analytical techniques” the question is raised whether Serbian colleagues could be more efficiently and effectively trained in internships in Germany than at Hydromet. The training of Serbian personnel in analytical techniques requires proven functioning analytical high tech equipment. As environmental micro traces are being analysed and the required analytical equipment is very delicate it might be advantageous and more productive (producing better results) if Serbian colleagues are trained in Germany in the respective analytical techniques. This should be considered by the steering committee.

The visits were organised with the kind help of the colleagues of the Directorate for Water who accompanied the German STE during their visit.

Duration: 4 days

Participants: STE Bergholz, STE Peter Seel, 1 from the Directorate for Water, 2 from Hydromet, 4 Water Control Department – Belgrade Waterworks, 2 from Institute for Public Health of Serbia “Dr. Milan Jovanovic Baturt”, 3 from Institute of Public Health of Belgrade

Sub-Component 2.2 “Enhancing organisational capacity of institutions undertaking water monitoring”

Missions related to Activity 2.2.1:

Title: “Assessment of intra- and inter-institutional communication procedures and data management.”

The mission of STE Olaf Voigt took place between the 8th and the 14th of October 2006. During his mission Mr. Voigt elaborated a specific questionnaire concerning intra- and inter-institutional communication procedures and data management after having spoken with the corresponding experts. The structure of the questionnaire was subsequently discussed with the representatives of the mentioned addressees and corresponding parties and modified with the constructive help and advice of the Serbian colleagues. The questionnaire as well as the cover letter and the distribution list are annexed to this report. With the reception of the filled questionnaires by the involved institutions the inquiry will be later evaluated and the scheme of communication and data exchange/flow in the field of water monitoring elaborated.

Duration: 5 days

Participants: STE Olaf Voigt, RTA II Ebel, 4 from Hydromet, 1 from Michail Pupin Institute, 1 from the Serbian Environment Protection Agency, 5 from the Directorate for Water.

2D – TIMING AND DELAYS

Table 2: Time schedule of the project

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Component 0: Project Coordination																									
0.1 Project set-up	x																								
0.2 Kick-off meeting		x																							
0.3 Coordination with other projects and the ICPDR	o																								
0.4 Wrap-up workshop																									
Component 1: Strengthening the institutional capacity of the Directorate for Water and related institutions																									
Sub-component 1.1: Assessment of institutional capacities and planning of training activities																									
Activity 1.1.1: Assessment of the institutional structures and review of achieved training by the WD and Hydromet in the field of River Basin Management Planning																									
Activity 1.1.2: Establishment of joint working group with WD and Hydromet								x																	
Activity 1.1.3: Formulation of a training plan																									
Sub-component 1.2: Implementation of training for the pilot application of RBMP issues																									
Activity 1.2.1: Introduction of conceptual issues for the implementation of the WFD																									
Activity 1.1.4: Preparation of training materials																									

Table 2 (cont.): Time schedule of the project

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Activity 1.2.2: Characterisation of the river basin district, review of the environmental impact of human activity and economic analysis of water use																								
Activity 1.2.3: Formulation of a monitoring programme of surface water and ground water status according to WFD and Serbian legal requirements in the small river basin																								
Activity 1.2.4: Formulation of the programme of measures (Art. 11 WFD) for the RBMP																								
Activity 1.2.5: Mapping out water resources in the pilot river basin with the help of GIS techniques																								
Activity 1.2.6: Study tour on surface and groundwater monitoring and the use of GIS and							<u>x</u>																	
Sub-component 1.3: Development of action plans for the alignment of legislative, administrative and financial measures in the water sector																								
Activity 1.3.1: Gap analysis of the existing legal framework in the water sector in Serbia					<u>o</u>																			

cont. Table 2: Time schedule of the project

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Activity 1.3.2: Preparation of the transposition of the UWWTD and Nitrates Directives																								
Activity 1.3.3: Upgrading administrative structures for enforcement																								
Activity 1.3.4: Development of a financial plan																								
Sub-component 1.4: Human resources development																								
Activity 1.4.1: Restructuring of the administrative units responsible for human resource development																								
Activity 1.4.2: Elaboration of a human resource development strategy																								
Sub-component 1.5: Design of a WFD public awareness programme																								
Activity 1.5.1: Assessment of obstacles and opportunities for public participation in the implementation of the WFD																								
Activity 1.5.2: Design of a multi-level awareness strategy																								
Activity 1.5.3: Implementation of the public awareness programme																								

cont. Table 2: Time schedule of the project

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Component 2: Support for the upgrading of the water monitoring system in Serbia																								
Sub-component 2.1: Enhancing monitoring system and laboratory capacity																								
Activity 2.1.1: Review of the existing monitoring programmes and facilities (measuring stations, i.e. monitoring sites) for surface water, groundwater and hydrological observations, i.e. water level.				o																				
Activity 2.1.2: Redesign of the monitoring programme and observation network and sampling design for surface water, ground water and hydrological observations, i.e. water level.				o																				
Activity 2.1.3: Technical implementation plan for enhancing the monitoring system and the monitoring facilities (hardware)				o																				
Activity 2.1.4: Training of personnel involved in water monitoring																								
Activity 2.1.5: Development of a field handbook of methods for the collection, preservation and transportation of water samples.																								
Activity 2.1.6: Technical implementation plan for enhancing the laboratory equipment and capacity				o																				

cont. Table 2: Time schedule of the project

Project Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Activity 2.1.7: Training of laboratory staff in processing / handling of samples and analytical techniques																								
Sub-component 2.2: Enhancing organisational capacity of institutions undertaking water monitoring																								
Activity 2.2.1: Assessment of intra- and inter-institutional communication procedures and data management					O																			
Activity 2.2.2: Improvement of communication between the institutions by the elaboration of standard communication /reporting procedures and systems																								
Activity 2.2.3: Quality assurance/control of the documentation of monitoring results and data																								

Legend of the table:

- tick box x = activity accomplished,
- tick box mission O = activity started and ongoing,
- grey tick box = activity planned,
- black tick box = delay of activities of exceeding 3 months

Recuperation of delays

No activities are delayed more than three months. In Component 1 some of the activities started later than foreseen in the schedule. Efforts should be concentrated to recover the delays in particular in the field of institutional assessment and the development of a training plan.

2E ASSESSMENT

Overall assessment of progress

20 missions of STEs (under Activities 1.1.1, 1.1.2, 1.1.3, 1.3.1, 1.5.1, 2.1.1, 2.1.2, 2.1.3, 2.1.6 and 2.2.1) have been carried out in accordance with the work plan.

The Twinning-Team spent huge endeavour in speeding up with the project course. Even it was not possible to make up completely for the delay resulting from the first project months, the project is on a successful way. It is envisaged to catch up with the planned time table during the next quarterly reporting time span. In face of the upcoming Christmas time it is planned to keep on intensifying the frequency of the STE missions during the third project quarter.

2F ANNEXES

List of annexes

Workshop “The Overview of WFD” – participants list

Workshop “The Ideal Administrative Structure for the Implementation of WFD” – participants list

Minutes of the first Steering Committee Meeting

Letter of Appointment of Members of Joint Working Group

Minutes of the constitutive meeting of Joint Working Group

Minutes of the first meeting of Joint Working Group

Study Tour – participants list

Study Tour – agenda

Report of Directorate for Water from the Study Tour

Report of Hydromet from the Study Tour

Cover Letter to Questionnaire of Intra- and Inter- communication

Questionnaire of Intra- and Inter- communication

Distribution list for questionnaire

Quarterly Financial Report