



Building Capacity for Water Resources Management in Southern Africa

# 1<sup>st</sup> Progress Report Phase IIb: 2008-2011

July – December 2008



A strategic programme of the  
SADC Water Sector

April 2009





Building Capacity for Water Resources Management in Southern Africa

# 1<sup>st</sup> Progress Report

## Phase IIb: 2008-2011

1 July 2008 - 31 December 2008

### Table of Contents

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1	Executive summary .....	8
2	Introduction .....	10
3	Programme targets.....	12
4	Achievements .....	15
5	Reporting, budget and expenditure analysis.....	33
6	Deviation from planned activities .....	36
7	Annexes .....	37

### ANNEXES

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Annex 1: Consolidated Phase IIb Budget and Expenditure (1 July 2008 To 31 December 2008).....	38
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## Highlights

### **WaterNet Phase Iib (2008 to 2011)**

The WaterNet Phase Iib Project (1 July 2008 to 30 June 2011) document was accepted approved by the cooperating partners on 16 June 2008.

The State of the Netherlands, through the Head of the Development Cooperation Section of the Embassy of the Kingdom of the Netherlands in Maputo, Mozambique, entered into a contract with the WaterNet Trust for funding WaterNet Phase Iib Project with a subsidy up to a maximum of €2.86 Million.

It is anticipated that in early 2009 Sida will enter into a contract with the WaterNet Trust for WaterNet Phase Iib. It is estimated that a balance of approximately €1.6 Million will be available as the total subsidy.

### **WaterNet Phase Iia**

WaterNet Phase Iia had a phased closure with authority to use DGIS funds up to 30 June 2008 and the Sida subsidy to bridge the start of Phase Iia and Iib for the months of July and August 2008 i.e. closure as of 31 August 2008.

### **4<sup>th</sup> WaterNet Management Board Meeting**

The meeting was held on 27-28 October 2008 in Johannesburg, South Africa. The meeting discussed a range of issues including human resource and financial management of the network.

### **WaterNet 9<sup>th</sup> AGM**

The 9<sup>th</sup> WaterNet AGM was held at Birchwood Hotel in Johannesburg south Africa on 31 October 2008. The meeting was attended by 67 participants who represented member institutions. The meeting accepted four new members, deliberated on the WaterNet fund-raising strategy. Elections for the Board of Trustees saw renewal of terms of office for Dr Dominic Mazvimavi and Dr Frank Kansime and incoming of Ms Lucy Chipeta as new Board member.

### **Member Reports**

Member reports covering the period 1 July 2007 to 30 June 2008 were analysed into a synthesis report based on responses gathered in the annual reporting form. A total of 50 reports were submitted compared to the 31 submitted during the previous period out of a total expected 56 reports.

### **Masters Programme 2007 Intake**

At total of 27 WaterNet funded students graduated at the University of Zimbabwe and University of Dar es Salaam.

### **Masters Programme 2008 Intake**

The thirty nine (39) enrolled students completed their specialisation at the six host institutions and embarked on their dissertation work.

### **Masters Programme 2009 Intake**

One hundred and forty eight (148) applications from the SADC region were received, most were from Zimbabwe (36%), Tanzania (20%) and Malawi (16%). A total of 26% of these were women. No applications were received from Angola, DRC, Madagascar, South Africa and Mauritius.

### **Coordinators of the Masters Programme**

The Coordinators for the Masters Programme held their 4<sup>th</sup> Meeting in Malawi on 14 August 2008 and their 5<sup>th</sup> Meeting in Johannesburg, South Africa on 28 October 2008. The meetings discussed among other things the curriculum review report.

### **The Challenge Program on Water and Food**

The 2008 project workshop was held on 3 – 5 September 2008 in Johannesburg, South Africa. Some 30 researchers and students attended, including the CPWF Theme 1 Leader. At the workshop an Output Plan was developed to guide the final year of the project.

### **Smallholder Systems Innovation in Watershed Management (SSI)**

During the reporting period, the SSI research group developed papers for the special journal issue of Agricultural Water Management. The SSI-2 project has secured UNESCO-IHE Partnership Research Funding (UPaRF) for up-scaling research in the Pangani and Thukela catchment.

### **9<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium**

The 9<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium was held successfully in Johannesburg, South Africa from 28-31 October 2008. The venue of the symposium was Birchwood Hotel with the theme “*Water and Sustainable Development for Improved Livelihoods*”. The symposium was attended by 230 participants from 21 countries.

### **WaterNet News**

During the reporting period two issues of the WaterNet newsletter (WaterNet News Volume 4 Issue 2 and 3) were produced and circulated.

### **Physics and Chemistry of the Earth Journal**

The 2008 edition of the *Physics and Chemistry of the Earth Journal* Volume 33, Issues 8-13 entitled “*Integrated Water Resources Management: From Concept to Practice*” was published and distributed to members during the reporting period.

### **Outreach**

During the reporting period WaterNet participated in the following events: 3<sup>rd</sup> Planning meeting of the project Capacity Building for IWRM in Africa and the Caribbean EU Water Facility Project 255 Port of Spain, Trinidad, 24 – 25 July 2008; World Water Week in Stockholm: Progress and Prospects on Water for a Clean and Healthy World with Special Focus on Sanitation, Stockholm, Sweden 17-23 August, 2008, Stockholm; 4<sup>th</sup> Zambezi Basin Stakeholder Forum, Lilongwe Malawi, 26-27 November 2008; Executive Seminar Earth observation for improving water management in Africa: developing human, technical and institutional capacity Enschede, the Netherlands, 23-25 September 2008; Training

of Trainers Workshop on Climate Change and Water Resources: IWRM as tool to cope with Climate Change, Panama City, Panama 4-8 August 2008; Cap-Net Network Managers Meeting, Kandy, Sri Lanka 4-7 December, 2008; Groundwater Capacity Building Group for Africa Workshop, Pretoria, South Africa, 21-22 July 2008; Sustainable Water Infrastructure Development in Southern and East Africa, Lusaka, Zambia, 1-2 December 2008.

# 1 EXECUTIVE SUMMARY

The summary of achievements and challenges encountered for the reporting period based on workplan and budget for year 2008 (as amended and approved at the 8<sup>th</sup> WaterNet Annual General Meeting, held in Lusaka, Zambia on 2 November 2007) are indicated in Table 1.1.

**Table 1.1** Overview of achievements and challenges during the reporting period

<b>Outputs</b>	<b>Activities</b>	<b>Progress (July-December 2008)</b>
1. To forge a strong, demand driven and sustainable network	1.1 Establish WaterNet PCN23	On-going, progress satisfactory with five regional short courses and workshops being planned for the first half of 2009. Letter of application and Memorandum of Understanding for SADC subsidiary status prepared and ready for submission.
	1.2 Promote member ownership	On-going, progress satisfactory. Member annual reports show satisfactory performance of the network. 4 new members accepted members. 4 <sup>th</sup> Management Board and 9 <sup>th</sup> AGM held successfully in Johannesburg.
	1.3 Fully staffed WaterNet Secretariat	Achieved and maintained during the reporting period.
	1.4 Professional financial management	On-going, progress satisfactory. Financial Management Procedures Manual and Procurement Procedures Manual completed and adopted.
	1.5 WaterNet legal status	Target achieved.
	1.6 Financial sustainability	On-going, WaterNet Phase IIb (2008-2011) accepted and funding from DGIS granted. Sida subsidy to the Trust expected to be finalized in early 2009. 9 <sup>th</sup> AGM adopts the internal fundraising position paper for income generation from the membership, products and services and from other regional organisations.
	1.7 Monitoring, Evaluation	On-going, progress satisfactory.
2. Deliver and strengthen the jointly owned WaterNet Master programme in IWRM.	2.1 Deliver Programme at 2 host institutions	Target achieved, on-going activity with 27 WaterNet funded students enrolled in the 2007 graduating.
	2.2 Offer 6 specialisations	On-going activity, for 2008 its 39 students of the 2008 intake successfully completed their specialisations at six host institutions.
	2.3 Fellowship Fund	Target achieved, 29 students 2008-2009 intake in 2.2 above funded through the WaterNet Fellowship Fund and 10 from other sources.
	2.4 Review procedure Masters programme	On-going, with first draft of review report submitted and discussed at the 5 <sup>th</sup> Management Board and 4 <sup>th</sup> and 5 <sup>th</sup> Coordinators of the Masters Programme

Outputs	Activities	Progress (July-December 2008)
		Meetings. The final report is expected in the second half of 2009
	2.5 Dissertation Research Fund	Ongoing activity, target achieved.
3. Professional training and education.	3.1 WaterNet professional training programme	Ongoing activity, five short course and seminars in planning and to be held in the first half of 2009.
	3.2 WaterNet professional training officer	Deviated to Research Leader
	3.3 Catchment partnerships	On-going, process very slow as it requires engagement of catchment management agencies and GWP-SA. The activity is expected to start towards the end of the research project in 4.2
	3.4 English for Water Managers	On-going, demand less than expected seminars on research methodology and scientific writing held instead at the two core institutions of the Masters Programme.
4. Research capacity building	4.1 Research capacity building	On-going, collaboration with WARFSA outstanding as WARFSA still remains non-functional.
	4.2 WaterNet partner in IWRM research	On-going, progress good. Challenge Program on Water and Food (CPW&F) and the Small Systems Innovations Research Projects progressed well with a lot of research outputs and impressive human resource capacity building.
	4.3 Funding new research activities	On-going, slow progress, need to review the research thrust. Expectations for improvement in view of 4.4 below.
	4.4 Appoint 5 WaterNet Professorial Chairs IWRM	On-going, slow progress due to intricacies in the host institutions in establishing the Chairs. Out of the 5 positions there has been 5 advertisements, 4 interviews, 3 offers and 1 appointment.
5. Raise awareness and understanding of IWRM	5.1 Develop and implement WaterNet Outreach activities	On-going, progress satisfactory. WaterNet participated in six international and regional meetings on IWRM and produced Volume 4 Issues 2 and 3 of its newsletter. Volume 33 of the Physics and Chemistry of the Earth Journal published during the reporting period.
	5.2 Hold WaterNet/WARFSA Symposia	Target achieved, the 9 <sup>th</sup> Symposium successfully held in Johannesburg, South Africa on 29-31 October 2008 with 230 participants from 21 countries.

## **2 INTRODUCTION**

### **2.1 BASIC DATA**

Country:	Southern Africa Development Community (SADC)
Project name:	WaterNet Strategy Phase IIb, 2008-2011: Building Capacity for Water Resources Management in Southern Africa
Sida contribution number	73000564
DGIS activity number:	16706
Executing organisation:	WaterNet Trust
Secretariat Host Institute:	University of Zimbabwe, Harare, Zimbabwe
Project period:	1 July 2008 - 30 June 2011
Progress Report No.:	1
Reporting period:	1 July 2008 – 31 December 2008

### **2.2 CONTEXT**

This document is the first progress report of WaterNet Phase IIb (2008-2011) covering the period 1 July 2008 - 31 December 2008.

WaterNet, a network of tertiary education and research institutions in Southern Africa, was established in year 2000. By the end of December 2008 WaterNet membership consisted of 58 institutions and five supporting members.

### **2.3 PROGRAMME OBJECTIVES**

The vision of WaterNet is a future in which the SADC region has the institutional and human capacity to educate its own water managers, capable to contribute to the equitable sharing and sustainable utilisation of water resources for poverty alleviation, economic development (livelihood security) and environmental security.

The mission of WaterNet (long-term development objective) is to enhance institutional and human capacity in Southern Africa in the field of Integrated Water Resources Management (IWRM) through training, education, and research by harnessing the complementary strengths of institutions in the region. The enhanced capacity should enable the peoples of Southern Africa to manage their water resources in a more efficient, equitable and sustainable manner.

The immediate objectives of WaterNet are fivefold:

1. To forge a strong, demand driven and sustainable network of universities and research institutions in Southern Africa in the field of IWRM.
2. To deliver and strengthen the jointly owned regional Master degree programme in IWRM

3. To develop and deliver demand-driven training and education for practicing water sector professionals in Southern Africa.
4. To stimulate, regionalise and strengthen the research in the field of IWRM in Southern Africa.
5. To raise awareness and understanding of IWRM and its implementation at local, national and trans-boundary scale.

The immediate objectives are interlinked as they depend on each other and also benefit each other.

### 3 PROGRAMME TARGETS

#### 3.1 PLANNED ACTIVITIES JANUARY TO DECEMBER 2008

The following activities were planned to be addressed during the reporting period (as amended and approved at the 8<sup>th</sup> WaterNet Annual General Meeting, held in Lusaka, Zambia on 2 November 2007). The corresponding budget is shown in succeeding pages.

Work Plan January to December 2008

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#### **OUTPUT 1 To forge a strong, demand driven and sustainable network**

- Activity 1.1 Establish WaterNet PCN 23: WaterNet to become the implementing agent for SADC's human capacity building priorities in IWRM. Develop a long-term (10 year) Strategy for WaterNet taking into cognisance the HIV/AIDS and Gender aspects in 1.7.
- Activity 1.2 Promote member ownership of Network: WaterNet will put a particular emphasis to invite members from Angola and Madagascar. Award at least 4 NSF, 4 SDF, and 25 SEF. Review membership guidelines.
- Activity 1.3 Fully staffed WaterNet Secretariat: maintain current staff positions. Revise staff contracts and define staff conditions of service and establish a performance evaluation system. Develop human resources procedures.
- Activity 1.4 Professional financial management achieved: Manage the WaterNet Funds in a professional and transparent manner. Establish, with support from an external accounting agency, an effective financial administration by the first quarter of 2008, able to receive and disburse external funds according to international auditing requirements. Develop, test and review detailed financial management procedures.
- Activity 1.5 WaterNet Legal Status established: Operationalise the WaterNet Trust by the first quarter of 2008. Define clear tasks and responsibilities within WaterNet Trust and WaterNet Secretariat. Harmonise AGM regulations and protocol, Management Board and Trust regulations. Normalise WaterNet's operations as per the "Guidelines Governing Relations between SADC and Organisations executing SADC Programmes and Projects Under the Principle of Subsidiarity".
- Activity 1.6 Financial sustainability through income generation and contributed funds: Generate contributed project funding and external income of up to at least 25 % of the overall WaterNet budget
- Activity 1.7 Monitoring, evaluation and reporting procedures in place: Harmonize and streamline reporting internally (e.g. trustees, management board, members) and externally (e.g. donors, SADC, collaborating partners, other stakeholders). Implement the recommendations from the Impact Assessment Report. Refine and implement WaterNet Gender and HIV/AIDS strategies

**OUTPUT 2 To deliver and strengthen the jointly owned regional master degree programme in IWRM**

- Activity 2.1 Deliver the masters programme at two core host institutions
- Activity 2.2 Offer 6 Specialisations in Water Resources Management, Water and Environment, Water for People, Hydrology, Water and Land and Water and Society
- Activity 2.3 Fellowship Fund established: The WaterNet Fellowship Fund to offer 40 fellowships for the Master programme for 2008 (30 from current funding and minimal 10 external funded fellowships)
- Activity 2.4 Establish Review procedure and quality control system for WaterNet Masters programme: Finalize comprehensive review of the curriculum of the Master Degree Programme, including a proposal for general Regulations, by the first quarter of 2008. Establish the WaterNet Alumni Association and complete the tracer survey.
- Activity 2.5 Establish with WARFSA the WaterNet MSc Dissertation Fund: The WaterNet MSc Dissertation Fund to offer 40 fellowships for the dissertation part of the Master programme for 2008 (30 from current funding and minimal 10 external funded fellowships)

**OUTPUT 3 To develop and deliver demand driven training and education for practicing water sector professionals from the Southern African region**

- Activity 3.1 Launch the WaterNet Professional Training programme: In collaboration with Global Water Partnership Southern Africa (GWP-SA) and SADC Directorate for Infrastructure and Services, Water Division, offer 5 regional professional and short courses in IWRM 2 of which will be funded through the EU-ACP Water Facility grant.
- Activity 3.2 Appoint on an ad-hoc basis if required the servicers of a Professional Training Officer(s) to coordinate the WaterNet professional training programme
- Activity 3.3 Establish catchment partnership for demonstration and learning on translating IWRM principles to management jointly with Global Water Partnership Southern Africa (GWP-SA) and through the Danida Regional Programme Support for Environmental Assistance to the Southern Africa Region on Integrated Water Resources Management.
- Activity 3.4 Offer the English for Water Managers Course targeting professionals from Democratic Republic of Congo, Madagascar, Mozambique, and Angola. Offer writing and communication skills training to IWRM Masters students.

**OUTPUT 4 To stimulate, regionalise and strengthen research in the field of IWRM in the Southern Africa Region**

- Activity 4.1 Research capacity building (training and mentoring) together with WARFSA
- Activity 4.2 WaterNet a partner in integrated IWRM research: Support and facilitate multi-disciplinary research initiatives among WaterNet member institutions (Challenge Program on Water and Food in the Limpopo Basin (PN 17), Smallholder Systems Innovation Research Project.
- Activity 4.3 Seek funding for new research activities, WaterNet facilitating role
- Activity 4.4 Have two WaterNet - SADC Professorial Chairs in IWRM in place and appoint two additional positions by the first quarter of 2008. Advertise the last

WaterNet - SADC Professorial Chairs in IWRM position by the second quarter of 2008.

**OUTPUT 5 To raise awareness and understanding of IWRM and its implementation at catchments and trans-boundary scale**

- Activity 5.1 Develop and implement WaterNet Outreach activities: Develop and implement WaterNet communication strategy. To consolidate the knowledge base of WaterNet from its post-graduate education programmes, its involvement in research advancement and the strengths of its members on IWRM carry out synthesis review of WaterNet member reports, conduct traces survey of graduated students and launch and actively support the WaterNet Alumni Association. Continue and finalize the synthesis review of the Physics and Chemistry of the Earth Journal papers so as to inform policy and IWRM on the ground.
- Activity 5.2 Hold the combined 9<sup>th</sup> WaterNet/WARFSA/GWP-SA and the International Commission of Water Resources Systems (ICWRS) of the International Association of Hydrological Sciences (IAHS) Symposium in Johannesburg, South Africa. Initiate planning for 10<sup>th</sup> WaterNet/WARFSA/GWP-SA.
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## 4 ACHIEVEMENTS

WaterNet Phase IIa had a phased closure with authority to use DGIS funds up to 30 June 2008 and the Sida subsidy to bridge the start of Phase IIa and IIb for the months of July and August 2008 i.e. closure as of 31 August 2008. The final report for Phase IIa is expected early next year.

The WaterNet Phase IIb Project (1 July 2008 to 30 June 2011) document was accepted and approved by the cooperating partners on 16 June 2008.

The State of the Netherlands, through the Head of the Development Cooperation Section of the Embassy of the Kingdom of the Netherlands in Maputo, Mozambique, entered into a contract with the WaterNet Trust for funding WaterNet Phase IIb Project with a subsidy up to a maximum of **€ 2,860,000.00 (€ 2.86 Million)**. The first and second instalments of **€ 580,000** and **€ 318,014** respectively (total **€ 898,014**) were paid into the WaterNet Euro denominated bank account in Gaborone, Botswana during the reporting period. WaterNet activities have been funded from these instalments as from 1 September 2008.

Due to internal changes within Sida and also the need to conduct a closing audit of the Sida subsidy in Phase IIa it is anticipated that a contract between Sida and the WaterNet Trust for WaterNet Phase IIb will be finalised in early 2009. Sida indicated to WaterNet that there would be no additional funds for the project and that the balance as of 31 August 2008 will be transferred to the WaterNet Trust. It is estimated that a balance of approximately **€ 1.6 Million** would be available which is in line with the projections made in formulating the Phase IIb project document.

The following of the planned activities were undertaken during the reporting period.

## **4.1 FORGING A STRONG, DEMAND DRIVEN AND SUSTAINABLE NETWORK**

### **4.1.1 Establishing WaterNet PCN 23**

During the reporting period WaterNet continued with planning on a number of activities through collaboration with other regional and international capacity building initiatives in-line with the objectives of WaterNet PCN23.

### **4.1.2 Promote member ownership of the network**

The 4<sup>th</sup> WaterNet Management Board meeting was held on 27-28 October 2008 in Johannesburg, South Africa. The meeting discussed a range of issues including human resource and financial management of the network.

The 9<sup>th</sup> WaterNet AGM was held on 31 October 2008 in Johannesburg, South Africa, where members made important decisions on the future of the network. Some of the decisions were periodic routines while some were strategic and associated with the new strategy document (Phase IIb) and the Deed of Trust founding WaterNet's new identity as an independent legal entity. Below is a summary of some of the decisions made:

- Election of Ms Lucy Chipeta (University of Malawi) as a Board of Trustees member replacing Ms Lucia Kafidi (Polytechnic of Namibia) who's term of office came to an end. Ms Kafidi served WaterNet for 8 years firstly as a Steering Committee member and secondly as a member of the Board of Trustees.
- The Faculty of Science of the Agostinho Neto University of Angola, Luanda; Department of Geology, University of Namibia, Windhoek; The Department of Civil Engineering, School of Built Environment Lerotholi Polytechnic of Lesotho, Maseru; Department of Geology, Eduardo Mondlane University, Maputo were accepted as members.
- Introduction of an annual membership fee as part of internal fundraising strategy for the network
- Introduction of honoraria for Board of Trustees
- Introduction of performance monitoring for the Board of Trustees
- Warning and suspension of non-active members based on the rules governing continued membership
- The procedures and criteria for awarding WaterNet Funds were also revised and adopted at the 9<sup>th</sup> AGM

Member annual reports covering the period 1 July 2007 to 30 June 2008 were received and analysed during the reporting period. There was a great improvement in the number of reports submitted for this period. A total of 50 reports were submitted compared to 31 submitted during the previous period. A summary of the synthesis report based on responses gathered in the annual reporting form is presented below:

#### ***Participation in the Masters programme***

Overall participation in the implementation of the Masters programme improved compared to the previous year (twenty three (23) members compared to nineteen (19) institutions). Ten (10) institutions were involved in the planning and hosting of the programme. The largest improvement was in the participation in teaching of the programme where nineteen (19) institutions were involved compared nine (9) in the previous reporting period. Nine (9) institutions were involved in reviewing the

modules, the same number as last year. Nine (9) institutions were involved in quality control of the programme modules (includes all the host institutions).

#### ***Professional Training Courses***

During this annual reporting period fifteen (15) member institutions participated in the professional training courses compared to the twelve (12) in the previous year. Nineteen (19) members participated as participants or facilitators, a significant improvement compared to only four (4) institutions who were involved previously.

#### ***Participation in Research Activities***

Eleven (11) students from member institutions carried out research through WaterNet. Nine (9) member institutions participated in the Challenge Program on Water and Food CPWF (PN 17) whilst four (4) members participated in the Smallholder Systems Innovations (SSI) research projects. Fewer members were involved in the development of new research proposals during this period (four (4) members compared to eight (8) previously).

#### ***Outreach***

The biggest impact in member participation in WaterNet activities was demonstrated in outreach with almost 80% attending or involved in the planning of the 8<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium held in Lusaka, Zambia. More than 90% of these members presented a paper or poster at the Symposium.

### **4.1.3 Fully staffed WaterNet Secretariat**

The full staff compliment at the Secretariat was maintained during the reporting period.

During the reporting period the WaterNet Secretariat requested for the services of Ms Jeltsje Kemerink from the UNESCO-IHE Project Office from 14-22 October 2008 to assist and advise the Manager and Secretariat on the following:

- Development of a concept paper related to fundraising for WaterNet based on comments made by the donors taking into account Membership fees and honoraria for Board of Trustees (reference to ANSTI documents)
- WaterNet-UNESCO-IHE Workplan for 2009
- Amending the WaterNet procurement manual
- Commenting on the WaterNet Trust and SADC MoU
- Support and advice on human resource issue and implementation of Phase IIb project
- Support in preparing for the 9<sup>th</sup> Symposium, 4<sup>th</sup> Management Board Meeting and 9<sup>th</sup> AGM
- Support in compiling the final report for WaterNet Phase IIa

During the reporting period the Secretariat with the assistance of the Ms Ruth Beukman of GWP-SA and the Chairman of the Board produced documentation and terms of reference for the engagement of a human resources consultant based in Botswana.

The tasks were divided into Part A and B as follows:

***Part A: Short-term***

- To assess and recommend on the draft contracts for the existing staff in relation to compliance with the WaterNet Deed of Trust and the Labour Act and other applicable Laws in Botswana.
- To assess and recommend on conditions of service and remuneration structures

***Part B: Long-term***

- To develop human resources conditions of service, policies and systems manual
- To develop a performance management and appraisal system, train and install the system

The Secretariat made consultations in Gaborone and discussed the terms of reference with four human resources firms in September 2008. The following firms were approached:

- KPMG, Human Resources Services, Botswana
- Tsabadiri Consultants
- CGP Consultants
- Premiere Human Resources Consultants

Based on the submitted expressions of interest together with quotations for their fees it was agreed at the 4<sup>th</sup> Management Board meeting to engage KPMG, Human Resources Services, Botswana and CGP Consultants for parts A and B of the terms of reference respectively. The two consultants are expected to make their submissions in early 2009.

#### **4.1.4 Professional financial management achieved**

The 'Financial Management Procedures Manual' and 'Procurement Procedures Manual' of WaterNet were revised based on comments received during the 3<sup>rd</sup> Management Board Meeting and were accepted at the 4<sup>th</sup> Management Board Meeting with some minor inputs expected from KPMG, Botswana. The Manuals are sound and workable in their current state. It is planned to conduct a follow-up training and coaching workshop for the Board of Trustees in early 2009.

#### **4.1.5 WaterNet legal status established**

The WaterNet Deed of Trust was lodged at the Botswana Deeds Office and was duly registered on 29 December 2006 under number MA810/2006.

The law firm Molatlhegi and Associates drafted a Memorandum of Understanding (MoU) with SADC and a letter of application for SADC subsidiary status addressed to the Executive Secretary of SADC during the reporting period. The Management Board considered and commented on these documents at the 4<sup>th</sup> meeting and it is expected that the documents will be submitted to the SADC Secretariat before the end 2009.

#### **4.1.6 Financial sustainability through income generation and contributed funds**

Refer to the beginning of **section 4 and 4.1.2** of this report.

#### **4.1.7 Monitoring, evaluation and reporting procedures in place**

WaterNet continually strives to improve its reporting, monitoring and evaluation procedures to enable assessments on the impacts and sustainability of the programme to be made in an objective and informed fashion.

Refer also to **section 4.1.4** and **section 5** of this report.

## 4.2 DELIVER AND STRENGTHEN THE REGIONAL MASTERS PROGRAMME

### 4.2.1 Deliver the masters programme at two host institutions

A total of 27 WaterNet funded Masters Programme 2007 intake students graduated at the University of Zimbabwe and University of Dar es Salaam during the reporting period.

The thirty nine (39) enrolled 2008 Masters Programme students completed their specialisation at the six host institutions and embarked on their dissertation work.

The advert for the 2009 intake was released as planned with the deadline for the submission of applications set for 31 July 2008. Applications were received both electronically and hard copy formats.

The pre-selection meeting was held at the University of Dar es Salaam on 29 September 2008. The two core hosts, one specialisation host (Polytechnic of Namibia) and the WaterNet Secretariat were represented. The meeting was chaired by the Professorial Chair Mtalo. A total of 156 applications were received. Of the 148 applications from the SADC region, most were from Zimbabwe (36%), Tanzania (20%) and Malawi (16%). A total of 26% of these were women. No applications were received from Angola, DRC, Madagascar, South Africa and Mauritius (**Table 4.1**).

**Table 4.1** Summary of IWRM Masters programme applicants from the SADC region (2008)

Country	Female	Male	Total No. of Applicants
Angola	0	0	0
Botswana	2	0	2
DRC	0	0	0
Kenya	2	4	6
Lesotho	2	4	6
Madagascar	0	0	0
Malawi	6	18	24
Mozambique	0	2	2
Namibia	0	2	2
South Africa	0	0	0
Swaziland	1	3	4
Tanzania	7	22	29
Uganda	2	3	5
Zambia	3	12	15
Zimbabwe	13	40	53
<b>Total</b>	<b>38</b>	<b>110</b>	<b>148</b>

The selection process took the traditional approach of selection based on the following main criteria in order of decreasing importance: academic merit, relevant working experience, gender equity and geographical equity.

The number of participants selected per country was as follows: Zimbabwe (5), Tanzania (5), Malawi (4), Uganda (3), Lesotho (3), Swaziland (2), Zambia (2), Botswana (2), Kenya (2), Mozambique (1) and Namibia (1). The trade off was that a 50% female intake and a balance of the numbers for the specialisations was achieved at the cost of failing to increase the number of participants from countries that traditionally have had low participation.

The programme is due start on 16 February 2009.

The Coordinators for the Masters Programme held their 4<sup>th</sup> Meeting in Malawi on 14 August 2008 and their 5<sup>th</sup> Meeting in Johannesburg, South Africa on 28 October 2008. The meetings discussed among other things the curriculum review report.

#### **4.2.2 Offer six specialisations**

As per the approved 2008 Workplan, WaterNet offered the six specialisations for the 2008-2009 intake during the second half of the 2008 hosted as follows:

- Water Resources Management, University of Zimbabwe
- Water for People, Polytechnic of Namibia
- Water and society, University of the Western Cape
- Water and Environment, University of Malawi
- Hydrology, University of Dar es Salaam
- Water and Land, University of Botswana

#### **4.2.3 Fellowship Fund established**

The 8<sup>th</sup> AGM approved granting of 30 fellowships from the Fellowship Fund to deserving candidates as per the Work plan of 2008.

#### **4.2.4 Establish review procedure and quality control system for the Masters programme**

The review process of the Masters programme is being led by Prof Graham Jewitt of the University of KwaZulu Natal Department of Bio-resources Engineering and Environmental Hydrology. During the reporting period Prof Jewitt submitted a final draft report which was considered and commented on at the 4<sup>th</sup> Management Board Meeting and 5<sup>th</sup> Coordinators of the Masters programme meeting. A final revised report will be circulated to members in 2009.

#### **4.2.5 Establish with WARFSA the WaterNet MSc Dissertation Fund**

Refer to **section 4.4.1**.

## **4.3 DEVELOP AND DELIVER PROFESSIONAL TRAINING**

### **4.3.1 Launch WaterNet professional training programme**

The final draft of the Professional Training Strategy was submitted by the team of experts tasked for its development. The strategy will serve as an important resource for the yearly backstopping work plan to be drafted by UNECSO-IHE as per the Memorandum of Understanding with WaterNet. In the proposed joint work plan for 2009 with UNESCO-IHE involves a deeper consolidation of the professional training programme with the IWRM master programme and elaborating a plan for better short courses marketing and quality control.

During the reporting period WaterNet and various partners were planning five short courses scheduled for the first half of 2009. The course topics and partners are as follows:

- Climate change and water resources management. Partners: Cap-Net and GWP-SA. 26-30 January 2009.
- Promoting integrity and accountability in the water sector. Partners: UNDP Water Governance Facility at SIWI and Cap-Net. 1-3 June, Cape Town South Africa.
- River Basin Management. Partners: Cap-Net and GWP-SA. Dates to be announced, Beira Mozambique.
- Scientific methodology and fundraising. Partners: International Foundation for Science (IFS). Dates and venue to be announced.
- Water supply and sanitation. Partners: Cap-Net and GWP-SA. 6-9 April 2009, Windhoek, Namibia.

### **4.3.2 WaterNet Professional Training Officer**

A decision was made at the 7<sup>th</sup> AGM to employ a WaterNet Research Leader in lieu of the Network Professional Training Officer.

### **4.3.3 Catchment partnership on translating IWRM principles to management**

This activity is on-going in collaboration with GWP-SA. WaterNet will continue to focus on those catchments where there is active research e.g. Limpopo Basin for the Challenge Program on Water and Food and the Thukela and Pangani Basins for the SSI project.

### **4.3.4 English for water managers course**

Africa University Faculty of Social Sciences, through its Languages Unit, is the seat of WaterNet's discourse-related courses. These include the English for Water Managers Module and various professional short courses around the concepts of communication, negotiation, conflict, society and culture. The course on Research methods and the production of academic, scientific and technical texts responds to the most pressing needs of IWRM Masters students since the degree's research component is its single most-important component. The course entitled "*The Discourse of Research: Research Methods and the Academic, Scientific and Technical Text*" was offered at the University of Zimbabwe and University of Dar es Salaam delivered by means of a workshop held on 3-7 and 24-31 November, 2008, respectively.

## 4.4 REGIONALISE AND STRENGTHEN RESEARCH IN IWRM

### 4.4.1 Research capacity building

This is an ongoing activity which executed jointly through WARFSA and WaterNet. An update on the efforts to resuscitate WARFSA was made during the closing session of the 9<sup>th</sup> Symposium held in Johannesburg, South Africa by Dr Kevin Pietersen (WARFSA Scientific Research Board) and Mr Phera Ramoeli (SADC Water Division, Directorate of Infrastructure and Services). It is expected that WARFSA will be operational in early 2009.

The implementation of this activity assumes a functional and operational WARFSA.

### 4.4.2 IWRM research

WaterNet is involved in two collaborative research programmes *viz.* the Challenge Program on Water and Food, where WaterNet is coordinating an IWRM research programme in the Limpopo Basin with 19 partner institutions and the Smallholder System Innovation Watershed Management (SSI Programme) which involves 5 partners (4 WaterNet members) who conduct research in river basins in Tanzania (Pangani) and South Africa (Thukela).

#### *Challenge Program on Water and Food*

The WaterNet Challenge Program on Water and Food (CPWF) Project Number 17 (PN17) is a trans-institutional inter-disciplinary project within the Consultative Group on International Agricultural Research (CGIAR). The project goal is to contribute to improved rural livelihoods of poor smallholder farmers through the development of an IWRM framework for increased productive use of green and blue water flows and risk management for drought and dry-spell mitigation at all scales in the Limpopo basin.

The Project runs until 31 August 2009. The major highlight of the reporting period was the Project workshop, held on 3-5 September 2008. The workshop was attended by 28 researchers as well as the CPWF Theme Leader, Dr Elizabeth Humphreys of the International Rice Research Institute.

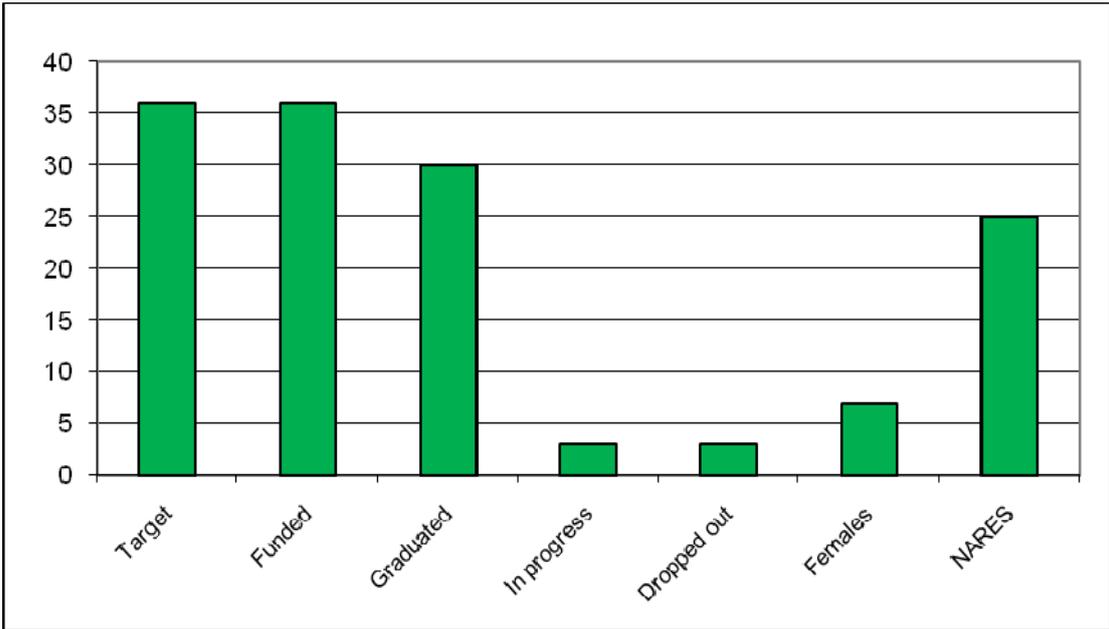
There were two major decisions made at the workshop *viz.*:

- Adoption of an output plan to guide the project in its final year. Progress against the output plan is shown in **Table 4.2**.
- Agreement to allocate reserve/surplus funds, from savings in the project. The surplus was allocated to fund three thematic workshops (farmer-field based action research, water resources research and institutions), for the purpose of preparing a syntheses report. Surplus funds were also allocated for additional work on institutions, to fill gaps in the research which were identified at the workshop.

**Table 4.2** Summary of the output plan and progress, CPWF Project Number 17

Activity	Status
Baseline and Survey Work	10 reports/articles drafted/published 5 expected March 2009
Farmer-Field Based Action Research	10 articles/chapters drafted/published 2 expected June 2009 3 synthesis articles expected June 2009
Improved Understanding of Water Resources	12 articles/chapters drafted/published 7 expected June 2009 2 synthesis articles expected June 2009
Institutional Models	8 articles/chapters drafted/published 6 expected June 2009
Integrating Hydrological, Agricultural and Socio-Economic Models	1 chapter published
Synthesis	4 articles drafted/published Final report expected September 2009

The project has met its target of funding 36 Masters dissertation projects. Of these, 30 have graduated, 3 are in stream and 3 dropped out (**Figure 4.1**).



**Figure 4.1** Profile of Masters students supported through Challenge Program PN17

NARES = staff of national agricultural or water departments or universities.

There are 7 PhD fellows: 5 fellowships from the project proposal and 2 additional PhD candidates who were identified by project partners who have allocated project research funding to the new projects. Mr Walter Mupangwa has submitted his thesis for examination and he is due to graduate in April 2009. The remaining fellows are continuing with fieldwork and analyses, and two of them are expected complete in 2009.

Project outputs achieved to date include 44 project activity reports (15 draft final reports), 24 journal articles (7 still under review), 1 book, 9 book or proceedings chapters, 10 institutional

working papers, 80 conference papers, 30 Masters dissertations and 12 bachelors dissertations. Five papers were presented at the Rainfed Workshop held in Ghana from 22-26 September 2008. Project researchers and students presented 16 papers at the 9<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium held in Johannesburg on 29-31 October 2008, where a special session was held. Seven papers were also presented at the CGIAR 2<sup>nd</sup> International Forum on Water and Food held in Addis Ababa in November 2008. At the latter meeting, project researchers and WaterNet Secretariat staff participated in the discussions about Phase II of the CPWF.

During the period under review, the project's Annual Report for 2007-2008 was submitted. The review was completed and once again the project received favourable comments from the Theme Leader and the Basin Focal Project Coordinator.

**Table 4.3** Status of CP17 accounts as of 30 June 2008

<b>Accounts</b>	
Total project budget	\$ 1,633,261.00
Funds received to date	\$ 1,344,646.00
Total expenditure to date	\$ 1,202,730.81
Balance of funds received remaining	\$ 114,315.19
Balance of project budget remaining	\$ 288,615.00

Mr Collin Mabiza UNESCO-IHE PhD participant under CPWF was awarded a grant for USD 12,000 from the International Foundation for Science (IFS). The grant will support part of his research project entitled "*The process of catchment planning in developing countries: challenges and opportunities of implementing IWRM*".

### ***Smallholder Systems Innovations***

The Smallholder Systems Innovations in Watershed Management (SSI) research programme is one of the two research programmes in which WaterNet is involved. The SSI programme is a multi-disciplinary initiative aimed at improving the livelihood of rural communities in sub-Saharan Africa. It studies the potential of indigenous and exogenous water system innovations in smallholder farms for improved land and water productivity. These innovations can range from *in situ* practices such as deep tillage and zero tillage to infrastructural interventions such as underground storage tanks and small storage structures. The programme not only aims to achieve excellence in scientific research but also deliver results that are of practical use to development planners to improve the livelihoods of rural communities and to disseminate the research findings across sub-Saharan Africa.

During the reporting period, the SSI research group worked on the development of papers for the special journal issue of Agricultural Water Management (see **Table 4.4** for the tentative table of contents). The papers are expected to be reviewed by an editorial committee before submission to the journal in early 2009.

**Table 4.4** Tentative table of contents the special journal issue of Agricultural Water Management

1	Preface/Introduction	Editorial Committee
2	Livelihood impacts of water system innovations in semi-arid agro-ecosystems in sub-Saharan Africa (Pangani and Thukela Basins)	Deborah Bossio
3	The role of Small Scale Water Innovations for multifunctional agricultural landscapes in Semi-arid Tropics	Line Gordon
4	Do multi-disciplinary participatory processes matter in adoption of smallholder water systems innovations? Experiences from Pangani and Thukela basins in sub-Saharan Africa	Kenneth Masuki
5	Fast and slow changes of conservation tillage in small-scale dryland farming systems	Elin Enfors
6	Potential & constraints in adoption of smallholder water system innovations: Lessons from Pangani river basin, Northern Tanzania	Jayashree Pachpute
7	Pangani river basin over time and space: how to bridge local and basin realities?	Hans Komakech
8	Drivers for action research in Water and Soil Innovations: A case of Thukela Basin, KwaZulu-Natal, South Africa	Maxwell Mudhara
9	Changes in green water flows and regulating ecosystem services through agricultural land use change in the upper Thukela	Graham Jewitt
10	Strategies of Scaling-up Water System Innovations in Pangani river basin of Northern Tanzania	Jayashree Pachpute
11	Potential of spate irrigation in securing livelihoods: Case of Makanya Catchment, Tanzania	Hans Komakech
12	Water allocation practices among smallholder farmers in the South Pare Mountains, Tanzania: Can they be up-scaled?	Marloes Mul
13	Evaporative water use of different land uses in the Thukela river basin assessed by satellite imagery	Victor M. Kongo

Mr Victor Kongo's thesis was approved and he will be awarded the PhD degree during the next graduation date at the University of KwaZulu Natal in April 2009. Both Ms Marloes Mul and Mr Job Rotich have submitted their PhD dissertations. Ms Mul's defence is scheduled for 6 February 2009. Ms Elin Enfors and Mr Hodson Makurira are expected to finalise their dissertations in the first half of 2009. Ms Enfors's defence is scheduled for 15 May 2009. The official closure of the SSI-1 programme has been delayed to mid 2009. Only Mr Hans Komakech's research has funds extending to 2010. A full peer-reviewed final report will be produced.

The SSI-2 programme has secured UPaRF (see section 4.4.3) funding for up-scaling research in the Pangani and Thukela catchment. The PhD position on Project 2 on "*Managing interdependencies: understanding tradeoffs and synergies*" will be taken up by a UNESCO-IHE alumnus Ms Omari Mwinjaka from Tanzania, who will start in June 2009. The PhD position on Project 1 on "*Water processes at different spatial scales*" is yet to be filled.

Two MSc students from UNESCO-IHE have been working in the Pangani on water allocation issues and surface-groundwater interactions within a wetland, near the SSI-1 research site. Several other initiatives are being undertaken to secure additional funding for the themes not covered within the UPaRF funds.

Find more on: [www.unesco-ihe.org/ssi](http://www.unesco-ihe.org/ssi).

#### **4.4.3 Funding for new research activities**

The proposal for the WaterNet PhD programme was submitted to the Netherlands Organization for International Cooperation in Higher Education (Nuffic) in October 2008. Unfortunately Nuffic responded by indicating that the Multi-year Agreement instrument no longer existed within the new Netherlands Fellowship Programme in which only fellowships will be awarded on individual basis. Nevertheless, the proposal developed for the WaterNet PhD programme can be submitted to other funding agencies.

Nuffic indicated also that in 2009 a new programme for capacity development at post-secondary level (called NICHE) will start. The programme offers access to funding for capacity building projects for a number of countries in Southern Africa (Tanzania, Mozambique, South Africa, Zambia). Currently Nuffic is identifying project outlines in the various countries together with the governments, Dutch Embassies and the sector organisations.

Potentially NICHE offers opportunities for WaterNet to get additional support to strengthen the capacities of its members, for instance the hosting institutions of the Master Programmes and specialisations. NICHE sponsored projects may include funding for training of staff at certificate, MSc and PhD level, but also upgrading of laboratory, library and other educational facilities.

The UNESCO-IHE Partnership for Research Fund (UPaRF) launched a number of calls for research proposals during the reporting period for projects in which UNESCO-IHE and partner institutions collaborate in various categories. WaterNet has expressed its intention to participate in a number proposals developed so far.

#### **4.4.4 WaterNet-SADC Professorial Chairs in IWRM**

##### ***University of Dar es Salaam***

The University of Dar es Salaam (UDSM) appointed Prof Felix Mtalo as the Chair Holder with effect from 1 December 2007. Prof Mtalo effectively started his Professorial Chair duties as from 1 February 2008.

##### ***University of Zimbabwe***

The candidate found suitable for the University of Zimbabwe (UZ) Chair was offered the position late last year but he turned down the offer. A decision on whether to re-advertise will be made.

##### ***Polytechnic of Namibia***

The position and Polytechnic of Namibia was advertised with a closing date of 30 January 2008. Interviews for the position were held on 19 March 2008 and the position was offered to the successful candidate. The candidate has since accepted the offer and is waiting for the issuance of a work and residence permit for Namibia.

##### ***University of Malawi***

The advert for the position was released on 28 June 2008 and the closing date of application was set on 25 July 2008. After the closing date only one application had been received. It was agreed to re-advertise the position. The applicant for the first advert will be considered for the position together with other possible respondents by the deadline date of 8 November 2008. Interviews are expected in early 2009.

##### ***University of the Western Cape***

The advert for the University of the Western Cape (UWC) position was released in the Mail and Guardian of 3 October 2008 and the closing date of application was set for 7 November 2008. Interviews were held for the shortlisted candidate on 2 December 2008 and it is expected that an appointment offer will be made by UWC in early 2009.

## **4.5 RAISE AWARENESS AND UNDERSTANDING IN IWRM**

### **4.5.1 WaterNet outreach activities**

Raising awareness of IWRM has up to the present primarily been pursued through the annual WaterNet/WARFSA/GWP-SA Symposium and participation in other regional and international fora and meetings.

During the reporting period WaterNet participated in a number of events summarised in the highlights section of this report. Details of some of the events are as follows:

#### ***4<sup>th</sup> Zambezi Basin Stakeholder Forum, 26-27 November 200, Lilongwe Malawi***

The forum is annual event that brings together key stakeholders in the Zambezi basin to discuss topical research and water resources management implementation issues. This years' theme was "*Championing effective IWRM in the Zambezi River Basin*". The forum focused on engaging stakeholders to discuss the mechanisms for operationalising the IWRM Strategy developed in 2007. WaterNet was invited to make a presentation titled "*Actor Oriented Research an Integral part of IWRM operationalisation*". The presentation made the case for participatory and collaborative research to be implemented to test the efficacy of proposed actions in the Zambezi IWRM Strategy Implementation Plan. Success stories from the Challenge Program and Smallholder System Innovations project. It is anticipated that WaterNet will successfully sell itself as worthy partner for developing and implementing a research strategy for the basin. The IWRM strategy proposes various strategies to tackle the challenges of the Zambezi basin. The strategy however acknowledges some capacity gaps for lead institutions in the riparian states and the basin commission secretariat.

#### ***World Water Week in Stockholm 17-23 August, 2008, Stockholm, Sweden***

WaterNet participated in the World Water Week in Stockholm. The Manager made a poster presentation and participated in the knowledge café and in a special session entitled "*Making a difference: Enhancing research by scientists in developing countries on water and sanitation*" with the lead convenor being the International Foundation for Science (IFS). The co-convenors were Bangladesh Centre for Advanced Studies (BCAS), Centre Régional pour l'Eau Potable et l'Assainissement à faible coût (CREPA), Capacity Building for Integrated Water Resources Management (Cap-Net), the Inter-Islamic Network on Water Resources Development and Management (INWRDAM), WaterNet and Maji na Ufanisi (Water & Development). The event discussed the importance of linking water and sanitation initiatives in developing countries to scientific research generated by scientists from these countries. The importance of empowering young researchers and end-users was emphasised in the process. The Water Week was also attended by the recipients of last year's "Best Young Scientist Award" Ms Tulinave Mwamila and Ms Farai Mchibwa who made poster presentations.

#### ***Sustainable Water Infrastructure Development in Southern and East Africa, 1-2 December 2008, Lusaka, Zambia***

The workshop was convened by SADC and the East African Community (EAC) with support from InWent and UNEP. The objective was for key stakeholders to appraise the Regional Capacity Building Programme on Sustainable Water Infrastructure

Development. The stakeholders appraised training manuals on (i) Environmental Management Plans and (ii) Social and Economic Aspects. The manuals make extensive use of reports by the World Commission on Dams. The meeting was unanimous that addressing capacity gaps by infrastructure projects proponents would lead to more robust and fundable proposals that ensured that infrastructure was sensitive to relevant social and environmental developments needs. WaterNet is a possible partner for: (i) implementation of the training programme or; (ii) extending the training to more participants for example by incorporating it in ongoing Master programme and professional training activities.

***Executive Seminar on Earth observation for improving water management in Africa: developing human, technical and institutional capacity, 23-25 September 2008, Enschede, The Netherlands***

The WaterNet Manager was invited to participate in the above seminar organised by the International Institute for Geo-information Science and Earth Observation (ITC). The seminar highlighted the application of earth observation in relation to managing water resources. It also resulted in the exploration of possible areas of collaboration between WaterNet, ITC and organisations which participated. In summary the scope of collaboration included the following activities in relation to application of Earth Observation and Geo-information (EO-GIS) tools:

- PhD's: awareness and special training on application of EO-GIS tools.
- Masters programme: awareness training at University of Dar es Salam and University of Zimbabwe for the 2009 intake, review of the two modules in the Masters programme, and scientific backstopping in the development and introduction of a 7<sup>th</sup> specialisation on EO-GIS in IWRM.
- Tailor made short course: deliver a short course to professionals in the region on mostly awareness (5 days) on EO-GIS tools. A refresher course was planned in collaboration with the University of Dar es Salaam in late 2009 on "*Spatial Information Capturing and Analysis for Water and Environmental Management*". A proposal was submitted to Nuffic for possible funding at the end of the reporting period. A two day awareness training course was also envisaged which will provide senior policy and decision makers on the potential use of EO-GIS
- EO-GIS installations: the EL-NET Africa-Europe initiative where at least the six WaterNet Masters programme host institutions will have hardware and software installed for access to EO-GIS information
- Joint proposals development: EU FP7, TIGER2

During the reporting period two issues of the WaterNet newsletter (WaterNet News Volume 4 Issue 2 and 3) were produced and circulated. The newsletter has been useful as a quick method of sharing information on WaterNet activities and also on other information relevant to members and collaborative partners.

The 2008 edition of the *Physics and Chemistry of the Earth Journal* Volume 33, Issues 8-13 entitled "*Integrated Water Resources Management: From Concept to Practice*" was published and distributed to members during the reporting period.

#### **4.5.2 WaterNet/ WARFSA/ GWP-SA Symposium**

The 9th WaterNet/WARFSA/GWPSA Symposium was held successfully in Johannesburg from 29-31 October 2008 at Birchwood Hotel. It had the theme: “*Water and Sustainable Development for Improved Livelihoods*”.

The Symposium was organised to include the biennial Symposium of the International Commission on Water Resources Systems (ICWRS) of the International Association on Hydrological Sciences (IAHS).

It was hosted by the School of Civil and Environmental Engineering, University of the Witwatersrand and the Local Organising Committee was led by Prof Akpofure Taigbenu. The event was officially opened by Ms Thandeka Mbassa, Deputy Director General Regions, Department of Water Affairs and Forestry, South Africa (on behalf of the Honorable Minister Ms Lindiwe B. Hendricks). Prof Loyiso Nongxa, Vice-Chancellor of Wits University, chaired the opening ceremony in which he noted that academic institutions in the region still lacked the critical mass in water research to lead the world.

Prof Damas Mashauri of the University of Dar es Salaam gave the keynote address titled, “*The Challenges in Attaining Sustainable Development for Improved Livelihoods*”. Prof. Murugesu Sivapalan of University of Illinois, USA gave a keynote address on the second day titled, “*Response of floods to climate and/or land use changes: Is there a role of similarity concepts and catchment typology?*”

There were four special sessions, namely Challenge Program, Global Water Partnership Southern Africa, Prediction in Ungaged basins (PUB), and SSI. The poster presentations was given a boost at the 2008 Symposium by having all posters displayed throughout the conference and ensuring that each presenter took time to speak to his/her poster. This innovation was well received.

The quality of report backs from Rapporteurs was extremely high at the Symposium. Most of the rapporteuring was done by WaterNet alumni. The improved quality of report backs was due to the fact that time was allotted during the plenary sessions at the end of each day’s programme.

Some symposium Statistics:

- Attendance: 230 participants; 35% Female; 34 % Young Scientists (<35 yrs); 53% Self-sponsored (no financial support from the organisers)
- Country representation: 21 Countries; 11 Southern African; 5 European; 3 East African; 1 Asian and; 1 Middle Eastern.
- Scientific presentations: 69 Oral; 41 Posters

#### **4.5.3 Alumni Association**

During the 9<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium they had an exhibition stand with communication and promotional materials. On 30 October 2008 the Association had its Annual meeting and launch of their newsletter. At the event they also honoured achievers such as previous winners of the Symposium Best Young Scientists Award.

Two books published with the support and contributions of WaterNet were also launched at this occasion, namely:

- Jonker L. and Manzungu E. (2008). *Playing the water dance: A guide to conducting and reporting interdisciplinary research in water resources management.*
- Schouten M., Hes E. and Hoko Z. (2008). *Innovative practices in the African water supply and sanitation sector.*

## 5 REPORTING, BUDGET AND EXPENDITURE ANALYSIS

### 5.1.1 Budget and expenditure analysis

This section integrates the narrative progress report, achievements and the budget and elaborates on the expenditure statement as presented in the report as **Annex 1**.

**Table 5.1** provides a summary of the Phase I Ib (half of the year one budget as per the project document) realisation per Fund for the reporting period, the variation between the two and comments.

Based on the comparison of the budget and expenditures there was overall under-spending on the Project mainly due to the spread of costs on activities spanning the transition from Phase I Ia to Phase I Ib (**Table 5.1**) that the entire project has been under-spending. Also it is important to note that the cycle of the project activities may not coincide with the financial management cycle e.g settlement of invoices for services provided might fall out of the reporting cycle.

### 5.1.2 Reporting

The four months period after the lapse of the reporting period to conclude progress reports is deemed to be sufficient to allow time for the Secretariat to gather all the reports from the members (financial and narrative) before compiling them into one document to be sent to the Management Board and Cooperating partners.

This report was submitted just on time. There have been delays though particularly on financial reporting. It is expected that this will improve drastically as the WaterNet goes through its learning cycle with the financial and accounting institutions based in Gaborone, Botswana.

**Table 5.1** Budget and expenditure analysis for the reporting period

Fund	Budget Year 1 Euro	Half Year 1 Euro	Expenditure Euro	Variation Euro	Comments
Management Fund <sup>1</sup>	438 080.00	219 040.00	240 479.00	-21 439.00	The Management Fund for the half year was over-spent due to late receipt of accounting fees for Phase IIa and IIb transition period. The meeting of the Coordinators of Masters programme was also booked on this budget line instead of placing it under the Symposium Fund. The meeting was crucial to discuss the recommendations of the curriculum review report.
International Backstopping	100 000.00	50 000.00	0.00	50 000.00	Although there were activities involving missions for UNESCO-IHE staff the invoices had not yet been submitted for settlement during the close of the reporting period.
Nodal Strengthening Fund	25 000.00	12 500.00	0.00	12 500.00	There were no applications for funds or disbursements made during the reporting period.
Symposium Fund	90 000.00	45 000.00	14 107.00	30 893.00	The costs of the 9 <sup>th</sup> Symposium were spread between Phase IIa and Phase IIb projects.
Publications Fund	30 000.00	15 000.00	913.00	14 087.00	Two books and abstract volumes for the Symposium were published and the costs were also spread across Phase IIa and Phase IIb projects. Since the review of the Masters programme is almost complete the revision of the modules will commence leading to publication in 2009 and hence significant expenditure is expected.
Fellowship Fund	240 000.00	120 000.00	145 841.00	-25 841.00	The expenditure is as anticipated. The Fellowship Fund and MSc Dissertation Fund are combined in the reporting and all expenditures are recorded under the Fellowship Fund line item.
MSc Dissertation Fund	60 000.00	30 000.00	0.00	30 000.00	
Curriculum Development Fund	12 000.00	6 000.00	0.00	6 000.00	There was no expenditure on the Fund Phase IIa. The Fund however still needs to be maintained particularly in view of the results of the curriculum review which might recommend development of new modules or restructuring of existing ones. In Phase IIb WaterNet also intends to introduce a 7 <sup>th</sup> specialisation on Earth observation, remote sensing and GIS for IWRM.
Staff Exchange Fund	72 500.00	36 250.00	1 392.00	34 858.00	The Fund is used mainly for the support of regional guest lecturers in the teaching and mentoring in the WaterNet Masters Programme. During the reporting period most disbursements had been made under the Phase IIa project. Significant disbursements are expected in early 2009 when the Masters programme begins in February.
Professorial Chair Fund	105 000.00	52 500.00	12 762.00	39 738.00	The project did not incur significant expenditure due to the slow and complicated process of establishing Professorial Chairs. It is expected that at least 4 positions will be occupied during the first half of 2009.
Catchment Partnership Fund	17 500.00	8 750.00	0.00	8 750.00	The Fund has not been used so far due to the lengthy process of establishing partnerships with catchment management agencies on one hand and GWP-SA (Country Water Partnerships) on the other. The Fund will become useful especially as a follow up to the implementation of recommendations from the Challenge Program on Water and food and SSI research project.
Professional Training Fund <sup>2</sup>	115 000.00	57 500.00	16 810.00	40 690.00	The Fund is under-spent in the reporting period. Expenditure will be

Fund	Budget Year 1 Euro	Half Year 1 Euro	Expenditure Euro	Variation Euro	Comments
					significant in the first half of 2009 for the six short courses which are in planning.
Language Course fund	20 000.00	10 000.00	802.00	9 198.00	Significant expenditure is expected once the final selection of the 2009 intake of the Masters students has been made and a decision made whether there are any non-Anglophone requiring the running of the course. During the reporting period two seminars were arranged and costs were arranged at the university of Dar es Salaam and university of Zimbabwe.
Staff Development Fund	30 000.00	15 000.00	0.00	15 000.00	There were no applications for funds or disbursements made during the reporting period.
Alumni Association Fund	22 000.00	11 000.00	3 873.00	7 127.00	The activities of the Alumni Association have taken off as witnessed at the 9 <sup>th</sup> Symposium significant expenditure is expected in the first half of 2009.
Challenge Programme <sup>3</sup>	0.00	0.00	823.00	-823.00	The amount is borrowed temporarily to open a new Challenge Program bank account with Stanbic Bank, Botswana and will be reimbursed as soon as funds become available for the Challenge program (equivalent of USD 1000.00).
Contingencies	32 086.67	16 043.33	0.00	16 043.33	
<b>Total</b>	<b>1 409 166.67</b>	<b>704 583.33</b>	<b>437 803.00</b>	<b>266 780.33</b>	<b>Overall the total expenditure was less than the budget mainly due to the overlap of Phase IIa and IIb where expenditure was spread between the two phases.</b>

Notes:

1. Total amount includes prepayment to Lockton Insurance Company for the period January to September 2009 to cover WaterNet vehicles.
2. Total includes amount disbursed to University of KwaZulu Natal for the hosting of a short course on Climate Change and IWRM scheduled for January 2009.
3. Amount to be refunded to WaterNet from the Challenge Program.

## 6 DEVIATION FROM PLANNED ACTIVITIES

During the reporting period the only deviation was that of budget planning whereby all expenditures incurred were supported through the Phase IIb DGIS subsidy to WaterNet. It is expected that the Sida subsidy for Phase IIb would be available in early in 2009.

Harare, April 2009



Bekithemba Gumbo, PhD, MSc  
WaterNet Manager

Harare, April 2009

Wilson Rufaro Nyemba, MSc  
WaterNet Trust, Chairman

## **7 ANNEXES**

Annex 1: Consolidated Phase IIb Budget and Expenditure (1 July 2008 To 31 December 2008).....	38
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## ANNEX 1: CONSOLIDATED PHASE IIB BUDGET AND EXPENDITURE (1 JULY 2008 TO 31 DECEMBER 2008)

	<b>Total budget Phase Iib Euro</b>	<b>Expenditure 1/7-31/12/08 Euro</b>	<b>Balance at 31/12/08 Euro</b>
Management Fund <sup>1</sup>	1 242 240.00	240 479.00	1 001 761.00
International Backstopping	230 000.00	0.00	230 000.00
Nodal Strengthening Fund	75 000.00	0.00	75 000.00
Symposium Fund	270 000.00	14 107.00	255 893.00
Publications Fund	90 000.00	913.00	89 087.00
Fellowship Fund	1 020 000.00	145 841.00	874 159.00
MSc Dissertation Fund	300 000.00	0.00	300 000.00
Curriculum Development Fund	36 000.00	0.00	36 000.00
Staff Exchange Fund	200 000.00	1 392.00	198 608.00
Professorial Chair Fund <sup>2</sup>	483 000.00	12 762.00	470 238.00
Catchment Partnership Fund	52 500.00	0.00	52 500.00
Professional Training Fund	325 000.00	16 810.00	308 190.00
Language Course fund	40 000.00	802.00	39 198.00
Staff Development Fund	60 000.00	0.00	60 000.00
Alumni Association Fund	50 000.00	3 873.00	46 127.00
Challenge Programme <sup>3</sup>	0.00	823.00	-823.00
Contingencies	96 260.00	0.00	96 260.00
<b>Total</b>	<b>4 570 000.00</b>	<b>437 803.00</b>	<b>4 132 197.00</b>

Notes:

4. Total amount includes prepayment to Lockton Insurance Company for the period January to September 2009 to cover WaterNet vehicles.
5. Total includes amount disbursed to University of KwaZulu Natal for the hosting of a short course on Climate Change and IWRM scheduled for January 2009.
6. Amount to be refunded to WaterNet from the Challenge Program.

WaterNet Secretariat  
PO Box MP 600  
Mount Pleasant  
Harare, Zimbabwe  
Tel 263 4 333248/ 336725  
Fax 263 4 336740  
Email [waternet@waternetonline.org](mailto:waternet@waternetonline.org)  
Web <http://www.waternetonline.org>