



Building Capacity for Water Resources Management in Southern Africa

# 3<sup>rd</sup> Progress Report Phase IIb: 2008-2011

July to December, 2009



A strategic programme of the  
SADC Water Sector

April 2010





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# Highlights

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

The 6<sup>th</sup> Management Board meeting was held on 26 – 27 October 2009 in Entebbe, Uganda. The meeting discussed a range of issues including human resource and financial management of the network, the 10<sup>th</sup> and 11<sup>th</sup> Symposia and the Water Research Fund for Southern Africa.

## **Executive Management (Secretariat)**

All three senior staff resigned in the previous reporting period. The WaterNet Manager, Dr Bekithemba Gumbo, was replaced by Mr David Love, who took up the position on 1 September 2009. For the period between Dr Gumbo's departure and Mr Love's commencement, Dr Innocent Nhapi was recruited as Interim Manager. The Research Leader, Dr Bongani Ncube, was not replaced and the position was diverted to Research Coordinator, readvertised, and Ms Keretia Lupankwa appointed on an interim basis. The Programme Officer, Mr Nicholas Tandi, was replaced by Ms Rennie Chioreso, who took up the position on 1 September 2009. Thus all senior staff are new.

## **Masters Programme 2008 Intake**

The thirty-seven (37) enrolled students completed their studies.

## **Masters Programme 2009 Intake**

Thirty-five students were recruited (30 with WaterNet funding). All completed their coursework except one who dropped out.

## **Professorial Chairs**

Three of the five Chairs are in post and have had their workplans approved. The fourth should start work in early 2010

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

The project concluded and the project report is now being prepared. Project outputs achieved to date include 39 journal articles (some still under review), 2 books, 14 book or proceedings chapters, 19 institutional working papers, 90 conference papers, 34 Masters dissertations and 13 bachelors dissertations.

## **New Research Projects**

During the reporting period, 3 UPaRF projects were approved to start 2010, two EC FP7 proposals were submitted, prospects of a Challenge Program Phase 2 project are good.

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

The 10<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium was held in Entebbe, Uganda from 28-30 October 2009. The venue of the symposium is the Imperial Resort Beach Hotel, Entebbe with the theme "*IWRM: Environmental Sustainability, Climate Change and Livelihoods*".

## **WaterNet News**

During the reporting period two issues of the WaterNet newsletter (WaterNet News

Volume 5 Issue 3 and 4) were produced and circulated.

**Physics and Chemistry of the Earth Journal**

The 2009 edition of the *Physics and Chemistry of the Earth Journal* Volume 34, Issues 13-16 entitled “*Water and Sustainable Development for Improved Livelihoods*” was published during the reporting period.

**New book published**

A book entitled “Innovative Practices in the African Water Supply and Sanitation Sector” was published as a joint initiative of WaterNet and UNESCO-IHE.

# 1 EXECUTIVE SUMMARY

The summary of achievements and challenges encountered for the reporting period based on workplan and budget for year 2009 (as amended and approved at the 9<sup>th</sup> WaterNet Annual General Meeting, held in Johannesburg, South Africa on 31 October 2008) are indicated in Table 1.1.

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

Outputs	Activities	Progress (July-December 2008)
1. To forge a strong, demand driven and sustainable network	1.1 Establish WaterNet PCN23	On-going, progress satisfactory. Letter of application and Memorandum of Understanding for SADC subsidiary status prepared and ready for submission. This was made possible by the signing of the Sida-WaterNet contract which was a requirement for the application for SADC Subsidiarity status
	1.2 Promote member ownership	On-going, progress satisfactory. A new membership report proforma was developed and circulated to all members. An annual membership subscription fee was implemented and the AGM agreed to warn or suspend defaulting members. Two staff development fund and two nodal strengthening fund applications approved.
	1.3 Fully staffed WaterNet Secretariat	The Manager, Research Leader, and Programme Officer resigned in the period March to June 2009. The 3 posts were advertised and substantive appointments were made for the Manager and Programme Officer. The Research Leader position was deviated to Research Coordinator and readvertised. The AGM agreed that the Secretariat shall remain hosted at the University of Zimbabwe until the end of Phase IIb.
	1.4 Professional financial management	On-going, progress satisfactory. Financial Management Procedures Manual and Procurement Procedures Manual are being revised, the Finance Committee is operational and new financial procedures and controls have been introduced.
	1.5 WaterNet legal status	Target achieved.
	1.6 Financial sustainability	On-going, progress preliminary. Income generation and strategic planning workshop held. Subscription fees introduced to supplement income and two further income streams (overhead and course fees) approved for introduction in 2010. Mechanisms are being developed to capture accurately members' in kind contributions
	1.7 Monitoring, Evaluation	On-going, progress satisfactory, new contracting systems introduced, further compliance initiatives, Research Committee and a Curriculum Review and Quality Control Committee established
2. Deliver and strengthen the jointly owned WaterNet Master	2.1 Deliver Programme at 2 host institutions	Target achieved, on-going activity with 27 WaterNet-funded and 10 other students enrolled in the 2008 completing. A total of 29 WaterNet-funded and 4 privately-funded students were enrolled in 2009 at

Outputs	Activities	Progress (July-December 2008)
programme in IWRM.		the two co-hosting institutions, undertook specialization and commenced dissertation projects.
	2.2 Offer 6 specialisations	On-going activity, for 2009 the 34 students enrolled successfully completed their specialisations at the six host institutions.
	2.3 Fellowship Fund	Target achieved, 30 students 2009-2010 intake in 2.2 above funded through the WaterNet Fellowship Fund (1 dropped out) and 5 from other sources.
	2.4 Review procedure Masters programme	On-going, curriculum review workshop to be held early 2010 to comprehensively integrate diverse curriculum initiatives and revise programme structure and curriculum for 2011 intake. Other review recommendations to be implemented in consultation with host institutions.
	2.5 Dissertation Research Fund	Ongoing activity, target achieved.
3. Professional training and education.	3.1 WaterNet professional training programme	Ongoing activity, progress satisfactory: three short courses were held in the reporting period. Two more courses postponed to early 2010. Several initiatives with various partners to broaden the scope, relevance and impact of courses
	3.2 WaterNet professional training officer	Deviated to Research Coordinator
	3.3 Catchment partnerships	On-going, progress satisfactory: first catchment partnership approved and implemented in Mzingwane, building on Challenge Program work.
	3.4 English for Water Managers	On-going. Course on The Discourse of Research: Research Methods and the Academic, Scientific and Technical Text offered at both host institutions of the masters programme. English for Water Managers to be offered to prospective students and other water managers early 2010.
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 concluded with a lot of research outputs and impressive human resource capacity building.
	4.3 Funding new research activities	On-going, progress good: 3 UPaRF projects to start 2010, 2 EC FP7 proposals submitted, prospects of Challenge Program Phase 2 project.
	4.4 Appoint 5 WaterNet Professorial Chairs IWRM	On-going, progress slow but improving. All the 5 chairs have been interviewed, 3 have started work and had workplans approved, 1 shall start early 2010.
5. Raise awareness and understanding of IWRM	5.1 Develop and implement WaterNet Outreach activities	On-going, progress good. WaterNet published special issue in Volume 34 of <i>Physics and Chemistry of the Earth</i> Journal, a book entitled "Innovative Practices in the African Water Supply and Sanitation Sector" and Volume 55 Issues 3 and 4 of its newsletter. WaterNet participated in four international and



Outputs	Activities	Progress (July-December 2008)
		regional meetings on IWRM. Alumni Association active and held elections and AGM.
	5.2 Hold WaterNet/WARFSA Symposia	Ongoing, progress good. 10 <sup>th</sup> Symposium held with a total of 226 abstracts accepted for presentation.

## **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	51050010
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.:	3
Reporting period:	1 July 2009 – 31 December 2009

### **2.2 CONTEXT**

This document is the third progress report of WaterNet Phase Iib (2008-2011) covering the period 1 July 2009 – 31 December 2009, under funding from DGIS and Sida.

WaterNet, a network of tertiary education and research institutions in Southern Africa, was established in year 2000. By the end of December 2009 WaterNet membership consisted of 58 member institutions, two associate members and six 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 JULY TO DECEMBER 2009

The following activities were planned to be addressed during the reporting period (as amended and approved at the 9<sup>th</sup> WaterNet Annual General Meeting, held in Johannesburg, South Africa on 31 October 2008). The corresponding budget is also shown.

**Table 3.1** Work Plan January to December 2009

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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 5 NSF, 4 SDF, and 25 SEF. Review membership guidelines.
- Activity 1.3 Fully staffed WaterNet Secretariat: maintain current staff positions. With support of external human resource consultant develop human resources procedures including a performance evaluation system. Full relocation of WaterNet Secretariat from Harare to Gaborone Botswana is completed with minimal disruptions to the delivery of outputs.
- Activity 1.4 Professional financial management achieved: Manage the WaterNet Funds in a professional and transparent manner. Receive and disburse external funds according to international auditing requirements and review detailed financial management procedures. Train and coach Board of Trustees on financial management
- Activity 1.5 WaterNet Legal Status established: Define clear tasks and responsibilities within WaterNet Trust and WaterNet Secretariat. Harmonise AGM regulations and protocol, Management Board and Trust regulations. Establish WaterNet as a SADC subsidiary institution 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. Train Trustees in fundraising and develop Fundraising Strategy including policies on membership fees.
- 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 2009 (30 from current funding and minimal 10 external funded fellowships)
- Activity 2.4 Establish Review procedure and quality control system for WaterNet Masters programme: Implement outcomes of the comprehensive review of the curriculum of the Master Degree Programme, including the general Regulations. Further strengthen the WaterNet Alumni Association and complete the tracer survey. Explore the development and introduction of a 7th specialisation on Geo-information and Earth Observation for IWRM.
- Activity 2.5 Establish with WARFSA the WaterNet MSc Dissertation Fund: Facilitate the resuscitation of WARFSA and proceed with establishment of the WaterNet MSc Dissertation Fund to offer 40 fellowships for the dissertation part of the Master programme for 2009 (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, and other international partners offer 9 regional professional and short courses in IWRM 4 of which will be funded through the EU-ACP Water Facility grant in collaboration with Cap-Net.
- Activity 3.2 Appoint on an ad-hoc basis (if required) the services of a Professional Training Officer(s) to coordinate the WaterNet professional training programme. Review the Strategy for the Professional Training Programme and draft an operational plan.
- 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 as a stand alone short 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, Smallholder Systems Innovation Research Project completion of first phase and prepare for start of the second phase).
- Activity 4.3 Seek funding for new research activities, Nuffic Multi-Year Agreement for the WaterNet PhD programme
- Activity 4.4 Have all 5 WaterNet - SADC Professorial Chairs in IWRM in place before the end of the first half of 2009.

**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 actively support the WaterNet Alumni Association. Continue and finalise 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 10<sup>th</sup> WaterNet/WARFSA/GWP-SA Symposium to be held in Entebbe, Uganda. Initiate planning for 11<sup>th</sup> WaterNet/WARFSA/GWP-SA to be held in Maseru, Lesotho.

**Table 3.2** WaterNet revised budget for 2009

WaterNet Budget for 2009			
<i>DGIS and SIDA Contributions</i>			
WaterNet Phase IIb Tentative Budget (Euros)		Budget Phase IIb (Jul'08-Jun'11)	Budget 2009
<b>Fund</b>			
<b>DGIS Funding</b>			
<b>To forge a strong, demand driven and sustainable network</b>			
WaterNet Management Fund		1,242,240	436,000
International Scientific Backstopping		230,000	90,000
Nodal Strengthening Fund		75,000	25,000
		<b>1,547,240</b>	<b>551,000</b>
<b>To raise awareness and understanding on IWRM at catchment, basin and transboundary scales</b>			
Symposium Fund		270,000	90,000
Publication Fund		90,000	30,000

			<b>360,000</b>	<b>120,000</b>
<b>To support higher education in IWRM, by delivering and strengthening the jointly owned WaterNet Master programme in IWRM</b>				
	Curriculum Development Fund		36,000	12,000
	Staff Exchange Fund		200,000	72,500
	Professorial Chair Fund		130,000	0
			<b>366,000</b>	<b>84,500</b>
<b>To increase the accessibility to professional training and education in IWRM for staff in water related businesses in Southern Africa</b>				
	Catchment Partnership Fund		52,500	17,500
	Professional Training Fund		325,000	115,000
	Language Course Fund		40,000	20,000
			<b>417,500</b>	<b>152,500</b>
<b>To stimulate, regionalise and strengthen research in the field of IWRM in the Southern Africa Region by offering opportunities to perform joint research</b>				
	Staff Development Fund		60,000	25,000
	Alumni Association Fund		50,000	18,000
			<b>110,000</b>	<b>43,000</b>
			<b>2,800,740</b>	<b>951,000</b>
	Contingencies		<b>59,260</b>	<b>19,000</b>
			<b>2,860,000</b>	<b>970,000</b>
	<b>SIDA Funding</b>			
<b>To support higher education in IWRM, by delivering and strengthening the jointly owned WaterNet Master programme in IWRM</b>				
	Fellowship Fund		1,020,000	365,000
	MSc Dissertation Fund		300,000	90,000
	Professorial Chair Fund		353,000	100,000
			<b>1,673,000</b>	<b>555,000</b>
	Contingencies		<b>37,000</b>	<b>12,000</b>
			<b>1,710,000</b>	<b>567,000</b>

## 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 was prepared and submitted in the first half of 2009. However, after the signing of the Sida-WaterNet agreement and the re-opening of books for Sida Phase IIa remaining funds, the final report had to be revised. This was done and the revised Phase IIa final report was submitted in September 2009.

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 last reporting period. Further disbursements were made in May 2009 (**€ 387,177**) and in December 2009 (**€ 483,066**).

A contract between Sida and the WaterNet Trust for WaterNet Phase IIb (Agreement No A 5100035) was finalised on 7 May 2009, with a value of **SEK10,000,000**. The initial disbursement of **SEK5,000,000** (received as € 477,490.02) was made in December 2009.

The following sections deal with the planned activities which 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



6<sup>th</sup> Board Meeting

The 6<sup>th</sup> Management Board meeting was held on 26 – 27 October 2009 in Entebbe, Uganda. The meeting discussed a range of issues including human resource and financial management of the network, the 10<sup>th</sup> and 11<sup>th</sup> Symposia and the Water Research Fund for Southern Africa.

The Board received applications from six institutions and recommended the acceptance of four: the Agricultural Engineering Department, University of Malawi, Bunda College of Agriculture, Dept. of Biological Sciences, Bindura University of Science Education, and the Dept. of Civil & Chemical Engineering, University of South Africa (to become members) and the Council for Scientific and Industrial Research (CSIR), Natural Resources & Environment (the Board recommended that it should become an Associate Member). The Board recommended against accepting IUCN into members, as it is a membership-based organisation and should be considered as a strategic partner of WaterNet, rather than becoming a member. The AGM accepted the Board's recommendations.

Expansion of membership into Madagascar was complicated by that country's suspension from SADC.



Member representatives on symposium fieldtrip

The AGM, on recommendation of the Board, reinstated the Dept. of Environmental Science & Technology, Chinhoyi University of Technology, Chinhoyi and the Faculty of Agriculture and Natural Resources, University of Namibia, Windhoek, Namibia as members in good standing. The AGM also issued warnings to PLAAS, University of the Western Cape and School of Natural Resources and Tourism, Polytechnic of Namibia receive warnings for failure to submit reports for 2009 and suspended the Institute of Resource Assessment, University of Tanzania be suspended for failure to submit reports for two consecutive years; 2008-2009. The voluntary withdrawal by Southern Africa HIV/AIDS Information Dissemination Services from WaterNet membership was accepted.

The 10<sup>th</sup> AGM was held on 29 October 2009 in Entebbe, Uganda. The meeting discussed a range of issues including the 2009 annual review, 2010 workplan and budget and the activities of the Trustees – as well as members (see above) and the staffing and hosting of the Executive Management (see next section).

The Board approved two applications for use of the Staff Development and two applications for use of the Nodal Strengthening Fund, and was considering a third Staff Development Fund application in December 2009. This is an improvement on applications received during 2008.

WaterNet Trust, represented by the Chairperson of the Board of Trustees, Eng. Wilson R. Nyemba and the International Institute for Geo-Information Science and Earth Observation (ITC), represented by Prof. Dr. Eng. M. Molenaar signed a Memorandum of Agreement on the 27th of October 2009 in Kampala, Uganda. The MOA allows WaterNet and ITC the opportunity to work together, especially in the field of GIS and earth observation for IWRM.

#### 4.1.3 Fully staffed Executive Management<sup>1</sup>

Discussions with the University of Botswana on hosting the Executive Management have failed to change the institution's position that they cannot provide office space or secondment of support staff. Considering the high costs of moving to Botswana, and the high operational costs were the Executive Management to operate from Botswana but not be hosted by the University of Botswana, the AGM agreed that the Executive Management should remain hosted at the University of Zimbabwe until end of Phase IIb and should try to secure new technology for improved communications. WaterNet member institutions who wish to host the Executive Management in Phase III have been asked to submit proposals for the consideration of the Board.



David Love

The WaterNet Manager, Dr Bekithemba Gumbo, left WaterNet on 28 February 2009. The Board appointed Mr David Love as the new Manager, and he took up the position on 1 September 2009. For the period between Dr Gumbo's departure and Mr Love's commencement, Dr Innocent Nhapi was recruited as Interim Manager.

The Research Leader, Dr Bongani Ncube, resigned from WaterNet with effect from 30 June 2009. The position was advertised but the Board was not satisfied with the diversity of applications received. On recommendation of the Board, the AGM agreed to deviate the position to Research Coordinator, and the new position was advertised. Ms Keretia Lupankwa was recruited as Interim Research Coordinator with effect from 8 December 2009.



Keretia Lupankwa

The Programme Officer, Mr Nicholas Tandl, left WaterNet on 15 March 2009. The Board appointed Ms Rennie Chioreso as the new Programme Officer, and she took up the position on 1 September 2009. For the period between Mr Tandl's departure and Ms Chioreso's commencement, Ms Sharon Murinda was recruited as Interim Programme Officer.



Rennie Chioreso

Thus for much of 2009, two of the three senior staff positions in the Executive Management were filled by temporary staff and one was vacant. This has required the Board Chairman, Eng Wilson Nyemba, to play a greater role in the day to day management operations than would usually be expected for his position.

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<sup>1</sup> The term *Executive Management* is in used in line with the Notarial Deed of Trust, in preference to the term *Secretariat*.



Ireen Mangoro

Mrs Ireen Mangoro was also seconded from the Institute of Water and Sanitation Development as a Symposium Intern for the period June to November 2009. Her main duties involves organising and handling all communication issues on the Symposium, Board Meeting, and the 3-Networks Meeting in Entebbe. She also assisted in following up payments under the Challenge Project and membership fees.

The Part-Time Bookkeeper, Ms Esther Muchadekuenda, left WaterNet in July 2009. Mr Levi Mabonga was appointed as her replacement and took up the position on 1 September 2009. After consideration of the substantially increased stafftime required on finance at the Executive Management's offices, due to the Trust assuming sole responsibility for financial management from UNESCO-IHE, as well as a substantial range of improved financial procedures and controls<sup>2</sup>, the Human Resources Committee of the Board approved the conversion of this position into a full-time Finance Officer.



Levi Mabonga

A Human Resources consultant, Mr Phillip Gilika of CGP Consultants, was recruited. He prepared drafts of staff conditions of service, remuneration structures, performance management system and disciplinary procedures. These documents have been discussed extensively and approved by the Board. Following the AGM's decision on the hosting of the Executive Management, the documents must be adapted to the Zimbabwean legal system.

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

The Finance Committee of the Board commenced operations, reviewing the bimonthly cash reports (financial transactions carried out in cash by the Executive Management) and the biannual financial reports, and advising the Board on financial matters.

Reviewing and finalising the Financial Procedures and Procurement Procedures manuals, is in progress, being undertaken by KPMG and the Finance Committee of the Board.

A suite of new financial procedures and controls were introduced to provide for proper documentation and professional procedures in procurement, cash management and so on.

#### **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

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<sup>2</sup> Note that budgeting, cash management and reporting, and invoicing are done by the Executive Management and not KPMG, as are evaluation of budgets and financial reports submitted by WaterNet members and contractors, and considerable time is spent on preparation of payment requests to KPMG and liaison with them and the Trust's bankers

Secretary of SADC during the reporting period. These documents have been further revised and will be submitted to the SADC Secretariat.

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



Workshop participants The WaterNet Management Board held an *Income Generation and Strategic Planning Workshop* on 19 and 20 November 2009 in Johannesburg, South Africa. The aim of the workshop was to brainstorm and come up with ideas on income generation for the WaterNet Trust with a view to sustain the network. One key output of the workshop will be a draft WaterNet ten year strategic plan, expected January 2010

The payment of Membership Subscriptions began in 2009 but came in from a minority of members. The AGM agreed that a member which fails to pay by August of the membership year would be warned and would be suspended on the second offence. Members at the AGM committed to paying membership subscriptions timeously.

Two other income streams have been identified for 2010 and were approved by the AGM as part of the 2010 budget:

- For courses funded by WaterNet, participants who are not funded by WaterNet or a collaborating partner (mainly those who are sponsored by their employer or are self-funding) pay a registration fee to the host institution. From 2010, there shall be a 10 % levy payable to WaterNet on this registration fee. Note this does not apply to participants funded by a collaborating partner such as Cap-Net or GWP-SA.
- For research projects and other special projects that the WaterNet Trust enters into (such as the Challenge Program or EC FP7 projects), WaterNet shall charge an overhead fee in line with the policies of the funder of that special project.

It is expected that these two income streams, together with subscriptions, should raise over €31,000 in 2010.

Mechanisms are being developed to capture accurately members' in kind contributions.

#### 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. During the period under review:

- An application form for WaterNet professional courses was introduced.
- Contracting of members (e.g. for running short courses) was changed so that a maximum of 75% could be paid upfront, with 25% withheld until all reports have been submitted
- The workplans and progress reports of Chairs went through rigorous review by both the Executive Management and the Board
- The Board established a Research Committee and a Curriculum Review and Quality Control Committee
- Contracts for the Master programme were rigorously followed to ensure that all verifiable indicators (theses, students' reviews of modules, finances etc) were submitted
- A database of experts was developed
- The mailing lists were updated and expanded.

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 37 MSc IWRM students from the 2008 intake from the University of Zimbabwe and University of Dar es Salaam defended their dissertations and successfully completed the programme by end of June 2009. The 24 students from the University of Dar es Salaam graduated in December and the 13 from Zimbabwe were awarded their degree certificates in November but they will graduate in 2010. Though the students successfully completed their dissertations, it was noted that some faced constraints on the supervision of their fieldwork.

<i>Student</i>	<i>Dissertation topic</i>
Edmund Mutayoba	Lake Victoria water level changes and its impact on water supply in lake riparian zone, Tanzania
Acension Diniragora	Environmental impact analysis of Bujumbura abattoir
Alexis Baradumbwa	Assessment of socio-economic activities' impacts on water quality in Mubarazi River Catchment, Burundi
Alixis Nimubona	Application of WEAP model for water resources management
Jiben Odok	The impact of land use/cover change on Wami river flows
Ezra Natumanya	Assessment of nutrient loading and removal along Nsooba Stream and Lubigi wetland, Kampala, Uganda
Simon Awijak	Investigating the effect of climate change on stream flows
Arthur Mubwebwe	Water quality management in Lake Kivu basin
Simon Jubek	Groundwater vulnerability assessment and sustainable management options for Arusha municipality, Tanzania
John Neelo	Evaluating the performance of a constructed wetland in the removal of faecal coliforms
Tatafasa Olivier	Monitoring of water quality from on point source pollution
Willis Ochieng	A comparative study of performance of satellite derived estimates
Magaret Aharikundira	Sustainability of Pre-paid Water services Delivery in urban poor settlements



<i>Student</i>	<i>Dissertation topic</i>
	of Kampala - Uganda
Gideon Mbeumuna Hengari	Potential use of sea water Desalinization as potable water supply strategy in Namibia
Bukirwa Faridah	Impacts of Land use change on non-point source pollution around Lake Victoria
Vivian Chambo	Development of an Environment Management System for Marmo Granito Mines (T) Ltd to manage Pollution
Fidelis Mayombo	Sustainability Assessment of the Water Supply Utility in Mtwara Region in Tanzania
Onesmo Zakaria	Integrated Remote Sensing and gis for assessment of Aquifer recharge zones in Pangani River Basin
Moshi Philipina	Investigating Physical Irrigation Potential, A case of Pangani River Basin, Tanzania
Kavishe Rose F.	Sanitation Management in Squatter areas A case Study of Manzese Uzuri
Gloria Chaonamwene	Wastewater Management in the Malawian cities and impact on Downstream communities
Jesca Sanga	Estimation of urban runoff and pollution of Msimbazi River which will be performed by Water Quality Modeling. GIS and Remote sensing and Giving Different solution to the different source of Problem
Emmanuel Pallangyo	Payment for Environmental services: Case of Ngurdoto Catchment
Vushe A	Reservoir Operation for Optimum Productive Water Use. A Case Study of Dams on Wenimbi and Ruzawi Rivers for the Igava Farming Area in Marondera District, Zimbabwe
Ndhlovu N	"A preliminary assessment of impacts of land use on biodiversity in Intunjambili wetland, Matopos, Zimbabwe.
Msipa M	Impacts of land use and land cover changes on functions of wetlands in urban communities in Harare, Zimbabwe
Mpembe N	Investigation of opportunities for Water Demand Management in peri-urban and rural areas in Tanzania, a case of Kiliwater.
Lusuva E	An assessment of gender mainstreaming in access to water for domestic and productive purposes by smallholder farmers in Usangu Basin, Tanzania
Kushe J	Assessment of Chemical Quality of Groundwater for Drinking in Dedza District, Malawi
Kambuku D	Assessment of Conjunctive Use of Small Dams and Groundwater for Sustainable Rural Livelihoods in Semi-Arid area: Case of Lilongwe West Rural Groundwater Supply Project Area – Malawi
Kalua R	Pressure Management as a Tool for Reduction and Control of Non Revenue Water for Central Region Water Board in Malawi – A case study of Kasungu and Salima Water Supply Schemes
Fobo L	Assessment of hydrological droughts characteristics and their impacts on water resources in Lesotho: Makhaleng River Basin.
Fatch J	Problematising and Conceptualisation of Local Participation in Transboundary Water Resources Management in the Limpopo Basin
Dlamini V	Impacts of Agricultural Land Use Change on Ecosystem Health-Case of Lower Komati River - Swaziland
Dladla B	Assessment of the Spatial and Temporal Pollution of the Mbabane River as Receiving Water for Mbabane Wastewater Works
Chipwaila J	Assessment of Unaccounted for Water For Public Water Utilities in Malawi: A case study of the Southern Region Water Board's Zomba
Musura Joseph	Inter- and intra-sectoral water allocation in Mzingwane catchment,

<i>Student</i>	<i>Dissertation topic</i>
Zimbabwe	

Thirty four (34) of the thirty five (35) students enrolled in the 2009 Masters Programme went for their specialisations in July and they successfully completed their taught part of the programme in September. In November they were equipped with research methods through a course that was offered at both core host universities. The students are now undertaking research activities in various countries for their dissertations.

<b>Student</b>	<b>Gender</b>	<b>Nationality</b>	<b>Specialisation and SHI<sup>3</sup></b>
<b>Juma, Eric Obeko</b>	M.	Kenyan	W&S (UWC)
<b>Kaluba Victor</b>	M	Zambia	W&L(UB)
<b>Kisakye Violet</b>	F	Uganda	W&L(UB)
<b>Mhlanga Ncamiso</b>	M	Swaziland	W&S(UWC)
<b>Msuku Alex</b>	M	Malawi	WfP(PoN)
<b>Mucunguzi Dominic</b>	M	Tanzanian	WfP(PoN)
<b>Mwalwega Beatrice</b>	F	Tanzanian	HYD (UDSM)
<b>Nayeja Patricia</b>	F	Malawian	WfP (PoN)
<b>Ogwe Ness</b>	F	Kenyan	W&E (UNIMA)
<b>Oyella Jackline</b>	F	Uganda	WRM(UZ)
<b>Palege Susartino</b>	M	Mozambique	W&L(University of Bots)
<b>Semana Thabo</b>	M	Lesetho	WRM(UZ)
<b>Thobosi Reneilwe</b>	F	Botswana	WRM(UZ)
<b>Tirimboi Auxillia</b>	F	Zimbabwean	W&S(UWC)
<b>Student</b>	<b>Gender</b>	<b>Nationality</b>	<b>Specialisation</b>
<b>Abdalla, Edista</b>	F	Tanzanian	WRM
<b>Chintengo, Mavuto</b>	M	Malawian	W&E
<b>Chinyepe, Andrew</b>	M	Zimbabwean	Hyd
<b>Machiwana, Vimbai</b>	F	Zimbabwean	WfP
<b>Mavima, Godwin</b>	M	Zimbabwean	Hyd

<sup>3</sup> WRM: denotes the Water Resources Management specialisation offered by University of Zimbabwe (UZ)  
Hyd: denotes the Hydrology specialisation offered by University of Dar-Es-Salaam (UDSM)  
WfP: denotes the Water for People specialisation offered by Polytechnic of Namibia (PoN)  
W&S: denotes the Water and Society specialisation offered by University of Western Cape, SA (UWC)  
W&E: denotes the Water and Environment specialisation offered by University of Malawi (Unima)  
W&L: denotes the Water and land specialisation offered by University of Botswana (UB).

Student	Gender	Nationality	Specialisation and SHI <sup>3</sup>
Mnisi, Lucky Hlanhla	M	Swazi	W&E
Mohammed, Asha	F	Tanzanian	Hyd
Muisa, Norah	F	Zimbabwean	W&E
Mwale, Joseph	M	Zambian	W&L
Ncube, Sifiso	F	Zimbabwean	W&L
Nyasulu, Toney	M	Malawian	Hyd
Opere, Samwel	M	Tanzanian	WfP
Sethlogile, Tshepo	F	Botswana	W&S
Shela, Kufasi	F	Malawian	W&S
Nenguke, Alleta	F	Zimbabwean	WRM
Twisa, Sekela	F	Tanzanian	W&L

The pre-selection meeting for the 2010 intake was held in August at the University of Zimbabwe where 30 students to be sponsored by WaterNet were shortlisted. Each core host institution shall enrol 15 WaterNet sponsored students and 5 students shall be enrolled at each specialisation host. The list was endorsed by the secretariat and other parties in the selection process and offer letters to the potential students were sent out early December. An English course targeted at potential Masters Students from Lusophone and Francophone countries is scheduled for January or February 2010 before the Masters Programme commences. This is done to equip the students with the necessary academic study skills for postgraduate study at an English University.

#### 4.2.2 Offer six specialisations

WaterNet offered six specialisations for the 2009-2010 students intake between July and September, as per the approved 2009 Workplan. The specialisations and their host institutions were;

- 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

Hydrology specialisation enrolled the highest number of students (24%) while Water and Environment as well as Water and Society specialisations enrolled the least number of students (12%). There are plans to increase the specialisations in future with University of KwaZulu-Natal hosting the seventh one.

#### 4.2.3 Fellowship Fund established



The 10<sup>th</sup> AGM approved granting of 30 fellowships from the Fellowship Fund to deserving candidates as per the Work plan of 2010. However, the Management Board resolved at the meeting in October to reduce the number of fellowships offered through the University of Dar-es-Salaam and increase those offered through University of Zimbabwe to keep the fellowships within the budget allocation<sup>4</sup>.

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

The review process of the Masters Programme by Prof Graham Jewitt of the University of KwaZulu Natal was completed and the final revised report has been submitted and discussed by the Management Board at a meeting in October 2009. The Executive Management was tasked by the Management Board to work with hosting institutions to address the issues raised during the review process to improve the delivery and quality of the Masters Programme. A curriculum review workshop to address some of the issues is scheduled for the first quarter of 2010.

Further reviews have been initiated and proposed. A workshop participated by staff of the Polytechnic of Namibia, UNESCO-IHE and other institutions that have been involved in teaching or developing the Water for People Specialisation was held at the end of October 2009. The participants proposed an update of current modules and development of online modules for the specialisation by end of June 2010.

The Board also established a Curriculum Review and Quality Control Committee, which shall start work in 2010.

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

Refer to section 4.4.1.

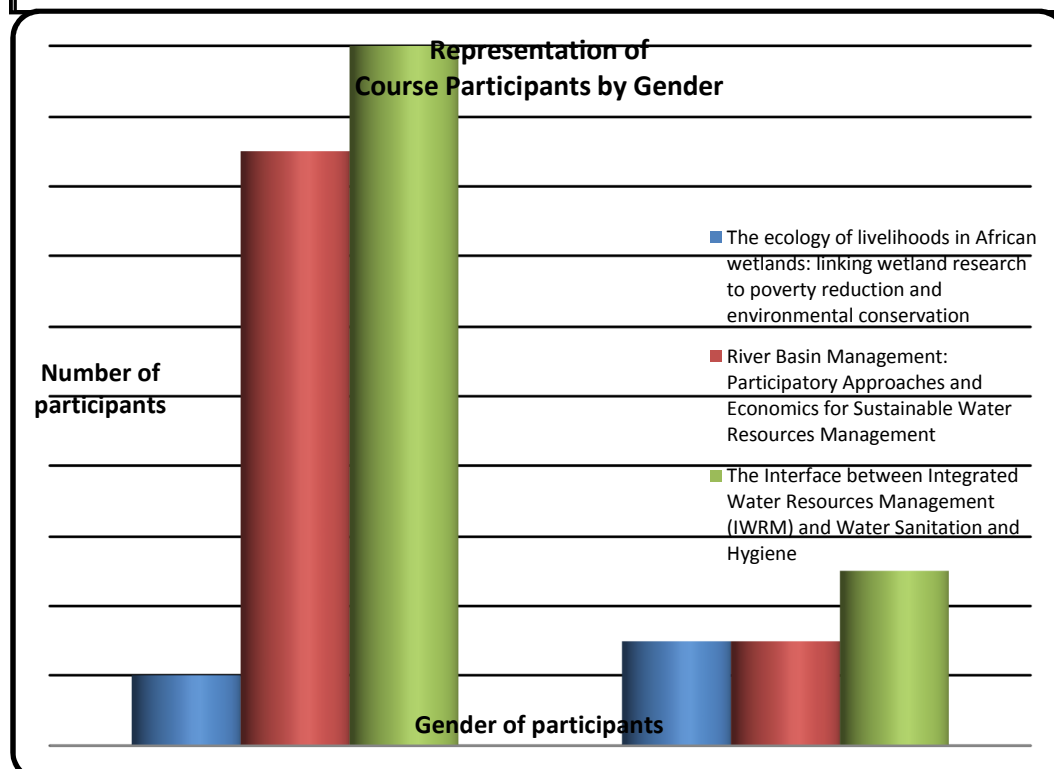
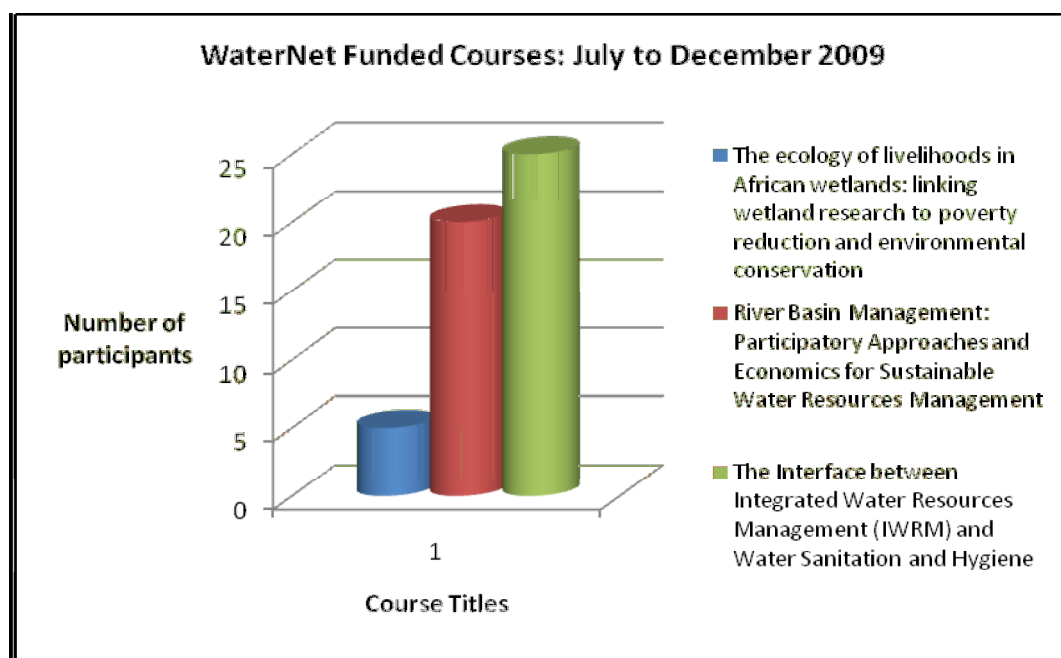
### **4.3 DEVELOP AND DELIVER PROFESSIONAL TRAINING**

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

During the reporting period WaterNet and its collaborating partners planned five professional short courses and successfully delivered three. Two of the scheduled courses were deferred to 2010.

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<sup>4</sup> In the event, the University of Dar-es-Salaam conceded to reduce its fees and this decision by the Board was reverted: 15 fellowships were offered through University of Dar-es-Salaam and 15 through University of Zimbabwe.



*The ecology of livelihoods in African wetlands: linking wetland research to poverty reduction and environmental conservation, 3 to 7 August 2009*

This refresher seminar was organized by the Eastern Africa Water Association, Egerton University and UNESCO-IHE Institute for Water Education. This refresher course aimed at building capacity and increasing awareness of the link between sustainable wetland management and livelihoods of communities dependent on wetlands (poverty reduction). WaterNet funded five participants from East and Southern Africa to attend the course; three female and 2 male participants. Invaluable lessons were drawn from the country experiences shared during plenary, interesting to note from the field excursion was that farmers who derived their livelihoods from wetlands had little appreciation of how to practice farming

without damaging the very same resource from which their livelihoods were dependent. Plans are underway to publish a book which draws on the case studies presented by facilitators and participants who attended the course.

*The Interface between Integrated Water Resources Management (IWRM) and Water Sanitation and Hygiene (WASH), 3 to 7 August 2009, Harare, Zimbabwe*



Course participants listen to urban resident

The course was organised and delivered by the Institute of Water and Sanitation Development a member of WaterNet. The course targeted IWRM and WASH practitioners in Zimbabwe with the aim of bringing out the interrelationship between IWRM and WASH: making this inter-relationship practical in the way water supply and sanitation services are planned, implemented and managed guided by IWRM principles. A total of 25 participants attended the course, and five of them were female. The participants were drawn from Government (5), quasi-government institutions (8), Non Governmental Organisations (6) and the private sector (1). The course created a lot of debate among the participants. It was interesting to note that participants would look at IWRM issues in isolation and would not use the principles to guide their Water and Sanitation programmes which has largely resulted in the sectoral approach to project implementation. The course created the much needed awareness among the practitioners which was encouraging and it is hoped that the debate will continue even in the workplaces so that the much needed awareness is created among all the relevant stakeholders. Participants came up with suggestions of how the knowledge acquired can be taken forward suggesting that the course objectives were met.

*River Basin Management: Participatory Approaches and Economics for Sustainable Water Resources Management, Beira, 16<sup>th</sup> to 20<sup>th</sup> November 2009*

The course was convened by WaterNet and Cap-Net and was successfully organised by Gorongosa National Park Scientific Services. The course was attended by 20 participants from Rwanda, Angola, Mozambique and Malawi. Seventy nine percent of the participants came from Lusophone countries and 21% from Anglophone countries in Southern and East Africa. Female participants were encouraged to apply. The course announcement and targeted invitations to River Basin Organisations encouraged



Course participants and facilitators

women to apply. Despite these efforts, only 16% of the participants were female. The poor representation of female participants in the course reflects the imbalance of female representatives in Water Resources Management institutions. The course was divided into four main modules: Introduction to Integrated Water Resources Management, Stakeholder participation in River Basins, Indicators for Integrated Water Resources Management (IWRM) in River Basin Organisations and Economic and Financial instruments for River Basin Organisations. The course material was largely adapted from a course manual produced by Cap-Net on River Basin Organisations. The participants planned to take up some follow up action in their home countries by developing and delivering similar courses; disseminating the knowledge in their organizations and incorporating aspects of the course in existing organisational or university curriculum. Recommendations for improving the course included:

- Reviewing the case manual to include regional case studies

- Delivering the course in one language, dual language hampered discussions and group work and
- The facilitators suggested that videos should be used to make sessions more interactive.

*Prospective plans: Approved Courses for First Semester 2010*

The following courses were postponed to early 2010:

- Economic and Financial Instruments for Implementation of Sustainable Water, Hygiene and Sanitation
- Water Resources Assessment in sub-Saharan Africa: Prediction in Ungauged and Data Scarce Basins

*Prospective plans: Professional Training Programme*

WaterNet plans to make the Professional Training Programme more responsive to regional and country level challenges and in so doing making more efficient use of resources, increasing coverage and leverage of the available resources and improving the coordination of regional partners in the development and delivery of Professional Training Courses.

In order to ***realise more leverage and make more efficient use of resources***, WaterNet plans to make use of the complimentary efforts of its regional and International partners. Cap-Net (the UNEP's global capacity building programme in IWRM) has developed course materials which are freely available for adaptation and use at the country and catchment levels. WaterNet is encouraging its members to make use of such readily available resources which would mean more courses will be run as limited funding will be required for course material development. A number of the materials are available in French and Portuguese thus making it possible for Lusophone and Francophone countries to benefit from. In addition, WaterNet aims to scale up a number of courses which were piloted at various levels such as the 'Promoting Integrity and Accountability in Water course'.

In an effort to deliver ***more targeted and demand responsive training***, WaterNet aims to align its training programmes with the strategic priority areas as identified by SADC. Furthermore, WaterNet aims to strengthen its partnership with the Global Water Partnership - Southern Africa. Jointly, the two organisations will encourage the Country Water Partnerships (CWPs) to develop concept notes for funding. This will ensure that training courses developed and delivered will respond to real and not just perceived challenges in the region. A brief questionnaire will be used to identify the CWPs priority areas and this will form the basis for our Training programmes as well.

In an effort to ***build the capacity of young water professionals*** in the SADC region, WaterNet in collaboration with its partners will pilot a Young Water Professionals mentoring programme. The programme will entail an Alumnus of the WaterNet Masters programme is attached to each training course that will be delivered. The Alumnus will be attached and mentored from the planning to the delivery of the course. Such active engagement of the Alumni could make a huge impact in building capacity of young water professionals in the region.

WaterNet is also ***building new partnerships*** for improved and increased short course delivery. These include working with Cap-Net Brasil on courses to be delivered in Portuguese, the Africa Groundwater Network on courses in hydrogeology and groundwater

development and management and the Water Institute of Southern Africa, particularly in the areas of training courses and Young Water Professionals.

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

A decision was made at the 7<sup>th</sup> AGM to employ a Research Leader in lieu of the Network Professional Training Officer. This position was deviated to Research Coordinator by the 10<sup>th</sup> AGM.

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

This activity is on-going and the collaborating partners are WaterNet, CapNet and the Global Water Partnership - Southern Africa. The first of the WaterNet Catchment Partnerships was approved at the 10<sup>th</sup> Board meeting and will focus on a catchments where there was active research: the Mzingwane Catchment for the Challenge Program on Water and Food. The activity commenced at the end of the reporting period and shall be reported fully in the next report.

Cap-Net is convening a pilot workshop on strategic planning for River Basin Organisations/Catchments and the workshop is scheduled for May 2010. This workshop will bring together the groups of networks and basins that have expressed interest in the programme. The major outputs of this workshop will be: the prioritisation of water resources management objectives by RBOs; the definition of indicators to monitor progress towards these objectives; an agreement across basins of a minimum set of indicators and monitoring framework that can be compared across different basins; initial data gathering on the indicators by RBO management; and a work plan for how the rest of the data will be gathered. WaterNet will participate in this initiative and link it our Catchment Partnerships work.

#### **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 is executed jointly through WARFSA and WaterNet. Waternet has been closely monitoring developments in efforts to revive WARFSA. It has

been noted that the absence of WARFSA is now affecting the quality of papers presented at the symposia.

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

#### **4.4.2 IWRM research**

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

WaterNet is involved in the Challenge Program on Water and Food, where WaterNet has been coordinating an IWRM research programme in the Limpopo Basin with 19 partner institutions. The project concluded in August 2009 and the final report is currently being written.

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.

Project outputs achieved to date include 39 journal articles (some still under review), 2 books, 14 book or proceedings chapters, 19 institutional working papers, 90 conference papers, 34 Masters dissertations and 13 bachelors dissertations.

WaterNet is actively pursuing participation in Phase 2 of the Challenge Program (see **section 4.4.3**).

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

The second major research project, the Smallholder System Innovation Watershed Management (SSI Programme) which involved 5 partners (4 WaterNet members) who conduct research in river basins in Tanzania (Pangani) and South Africa (Thukela) was finalised in 2008. 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.

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 UNESCO-IHE Partnership for Research Fund (UPaRF) funds (see **section 4.4.3**).

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

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

WaterNet is actively seeking funding for new research projects. Where WaterNet is successful, research and training activities will be implemented by the members and coordinated by the Executive Management.

##### ***UPaRF projects with WaterNet participation to start in 2010***

Hydropower-to-environment water transfers in the Zambezi Basin: balancing ecosystems health with hydropower generation in hydropower-dominated Basins (Power2Flow): This research project will analyze the reallocation of water between the hydropower sector to the environment in the Zambezi basin, the third largest basin in Africa, shared by 8 countries, where large reservoirs and hydropower stations have altered the hydrological regime and disrupted the ecosystems and new hydropower plants are planned. It is indicated that the existing dams already pose a risk to particular areas in the basin including the Kafue flats (upstream of Kafue Gorge dam), Middle Zambezi floodplains (downstream of Kariba), and the Lower Zambezi floodplains and delta (downstream of Cahora Bassa) where the main users and concerns were identified as ranging from small-scale agriculture, coastal and freshwater fisheries to biodiversity and public health interests. Implementing hydropower-to-environment water transfers in the Zambezi requires the development of new reservoir operating policies that should help restoring degraded ecosystems in the lower Zambezi without undue adverse impacts on hydropower generation. The latter is a critical issue considering that much of the energy generated in the Basin can be exported to neighboring countries through the Southern African Power Pool (SAPP). This basin offers an opportunity, through the existence of organized stakeholders, (power authorities, power companies, environmental NGOs) to influence both the operation of existing dams and the design of new ones.

Risk-based operational water management for the Incomati River basin (Riskoman): In heavily committed basins with many different water use(r)s located in different riparian countries strong interdependencies exist, whereby water allocation decisions have important economic, social, environmental and political consequences. Decision-making involves difficult tradeoffs, for which decision-support tools exist that are frequently based on optimising an economic objective function subject to constraints representing, among other things, hydrological processes. Large variability of rainfall, both within and between years, leads to even larger variations in river flow and adds uncertainty to the water allocation equation. The Riskoman research project aims to assist water managers and stakeholders in identifying, implementing and continuously adjusting efficient allocation policies in a dynamic and uncertain hydrologic environment. Thereto, an innovative policy support system will be developed that integrates the physical, social and economical dimensions of the allocation problem while explicitly considering the hydrologic and climate uncertainties. This policy support system will improve the quality of information upon which managers can develop hedging strategies in order to reduce the risk exposure of the various water users. This policy support system will be developed and tested for one particular river basin, namely the Incomati river basin.

Upscaling small-scale land and water system innovations in dryland agro-ecosystems (SSI Phase 2): The second phase of SSI focuses on moving towards sustainability and livelihood improvements through upscaling land and water systems innovations - especially those developed in the first phase of SSI. This research project is concerned with the semi-arid areas of sub-Saharan Africa, where 95% of all agricultural land is used for rainfed agriculture, water availability is scarce and highly variable, average yields often still remain below 1 ton/ha and crop failure occurs frequently. Water availability is a key entry point to improved crop productivity and poverty alleviation. SSI focuses on how smallholder farmers can lift themselves out of poverty by assisting them to develop, implement, monitor and disseminate innovative soil and water technologies and land and water management practices that increase food security. The impact of these innovations on food production and ecosystems has been studied at field and watershed level by the Smallholder System Innovations in Integrated Watershed Management project (SSI Phase 1, 2004-2008). The Phase 2 project (SSI-2) focuses on the socio-economic and bio-physical conditions and impacts of upscaling these innovations. Entire farming systems need to be equipped with improved land and water management techniques and practices before a real transformation of the countryside will take place: from the current position of marginalization and poverty to a motor of socio-economic development. However, the conditions under which such a transformation may occur, as well as the potential impact at different scales, are still ill-understood. The project thus covers the multidisciplinary fields of farming systems research, agronomy, ecology, hydrology, institutional analysis and knowledge science. It focuses on the conditions for upscaling of innovations as well as their subsequent socio-economic and biophysical impact, and how this knowledge can inform policies and improve institutions.

### ***European Community Framework Program 7 Proposals***

WaterNet is currently involved in the development of two proposals for the European Community 7<sup>th</sup> Framework Programme (EC FP7) funded projects in collaboration with a number of partners. The first project is on Improved Drought Early Warning and FORecasting to strengthen preparedness and adaptation to droughts in Africa (DEWFORA). In this project, WaterNet is part of a consortium of 19 organisations from Europe and Africa, including UNESCO-IHE.

The other project proposal is on Southern Africa Management of River Basin Ecosystems by a Sustainable and Integrated Approach (ZAMBESIA). This project has 11 partners and it seeks to improve management of the complex water and natural resource issues facing many African countries. If approved, the project will run for four years. One of the roles of WaterNet would be leading training and capacity building programmes in different countries where studies will be taking place. This would include supporting research through a total of 24 MSc students (6 per year), 3 PhD students and developing educational materials for schools. Material from the research would be incorporated into regional training programmes.



Impact pathway,  
dryland agriculture

### ***Challenge Program Phase 2***

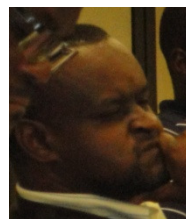
A workshop for Phase 2 of the Challenge Program on Water and Food (CPWF) was held from 30 November to 1 December 2009. Among the outcomes of the workshop were potential projects for the Limpopo basin that CPWF would award to different organisations. WaterNet will submit proposals for the CPWF Phase 2 projects once the call for proposals is issued.



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

##### *University of Dar es Salaam (UDSM)*

The University of Dar-es-Salaam 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 and has been conducting and reporting on his activities since then.



Prof Mtalo

##### *Polytechnic of Namibia (PON)*

Interviews for the Chair at PON were held on 19 March 2008 and the position was offered to the successful candidate, but by October 2009 the successful candidate has not yet taken up the posting. PON was advised that should delays continue, the endowment of the Chair could be reconsidered. PON responded rapidly and the successful candidate shall commence duty early in 2010.

##### *University of Zimbabwe (UZ)*

The University of Zimbabwe appointed Prof Innocent Nhapi as the Chair holder with effect from 1 October 2009. Prof Nhapi assumed his post and his workplan was approved by the Board



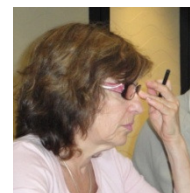
Prof Nhapi

##### *University of Malawi (UNIMA)*

Interviews for the Chair at UNIMA were conducted in February 2009, but by October 2009 the successful candidate has not yet taken up the posting. UNIMA were advised that should delays continue, the endowment of the Chair could be reconsidered, but the situation remains unresolved.

##### *University of the Western Cape (UWC)*

Interviews for the position of Chair at UWC were held for the shortlisted candidate on 2 December 2008. The successful candidate, Dr Jacqui Goldin, was appointed by UWC as a Senior Research Fellow, which is below the level expected for a Chair position. WaterNet and UWC had to resolve this issue through an addendum to the original MoU and this issue was finalised in the second half of 2009, with Prof Mazvimavi, a Trustee based at UWC, agreeing to assist in supervision of Dr Goldin. Dr Goldin's workplan was approved by the Board and she was subsequently promoted to Associate Professor.



Dr Goldin

#### 4.5 RAISE AWARENESS AND UNDERSTANDING IN IWRM

##### 4.5.1 Publications

During the reporting period two issues of the WaterNet newsletter (WaterNet News Volume 5 Issue 3 and 4) were produced and circulated to members and others through emails and posting on the website. 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.

During the period under review, the publication of papers from the last WaterNet/WARFSA/GWP-SA Symposium took place in a special issue of the journal

*Physics and Chemistry of the Earth* (Volume **34** issues 13-16) in July 2009. Twenty-three papers were published, which is a major decline. The editors of the special issue (Prof Mazvimavi and Prof Nhapi) argue in the editorial that this reflects a reduction in the amount of ongoing water research in southern Africa, partly due to WARFSA not being operational for the past four years.

WaterNet funded the publication of a book entitled “*Innovative Practices in the African Water Supply and Sanitation Sector*”. This book, a joint initiative of WaterNet and UNESCO-IHE, takes an informed and critical look at challenges in provision of water and sanitation services in the face of high population growth in cities. Service providers are expected to maintain and improve service delivery in existing parts of cities while at the same time struggle to extend services to newer areas in order to cope with the increasing demand. This is proving difficult, since in most African cities demographic growth, urban development and expansion have outpaced and outgrown the infrastructure.

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



Minister Eriyo speaking at the closing ceremony

The 10<sup>th</sup> WaterNet/WARFSA/GWP-SA symposium was successfully hosted by the University of Makerere in Entebbe, Uganda from 28-30 October 2009, with the theme “IWRM: Environmental Sustainability, Climate Change and Livelihoods”. Many thanks go to the Local Organising Committee led by Prof. Frank Kansiime. The event was officially opened by Dr. Calist Tindimugaya, Commissioner for Water Resources in the Ministry of Water and Environment, and officially closed by the Honourable Jessica Eriyo, Minister of State for Environment in the Ministry of Water and Environment. The event was attended by more than 200 delegates from Africa, Asia, Europe and America. The discussions focused on issues including:

- Impacts of climate change on water resources and adaptation,
- Innovative water treatment and sustainable sanitation,
- Water and livelihoods,
- Hydrological modelling and hydrological predictions for both ungauged and gauged basins and
- Integrated water resources management as a panacea for economic and social development in Africa.

This year’s Young Scientist Awards were scooped by Sharon Murinda who presented on ‘the Impact of Socio-Economic and Political factors on SODIS Adoption’ and Fabian Nshimiyimana who presented a paper entitled ‘Assessment of heavy metal pollution in a trans-boundary river: the case of the Akagera River’.

The 4<sup>th</sup> Management Board Meeting in November 2009 approved an initiative to organize joint



3 Networks Meeting

activities and workshops with the SACIwaters (Crossing Borders) and Concertación networks. The aim of the workshop was to exchange experiences in organizing water education, research and policy advocacy at the regional level. Key issues that emerged from the dialogue between the three networks were the importance of trans-disciplinary teams for teaching, research and development in water, the need to link capacity building firmly to the research agenda and the limits that gender imbalances impose upon capacity building potential.

The networks agreed that whilst there are many advantages in organising water education at a regional scale through collaborative partnerships, there is much to be learned from the different approaches followed in different networks.

### 4.5.3 Alumni Association

The WaterNet Alumni Association was launched in November 2007 and was quite visible at the 10<sup>th</sup> Symposium in Entebbe. The Association is headed by a steering committee and the following were achieved to date:

- i) The steering committee was constituted and came into effect. Likewise, the alumni association became functional and vibrant.
- ii) They have established a functional and updated database with contacts of almost all the members.
- iii) An interactive Alumni website was launched where members have continually given their views or comments on issues pertaining to the alumni.
- iv) An Alumni Newsletter has been established and was distributed at the 10<sup>th</sup> Symposium.
- v) A new Steering Committee and Association Board was elected by secure online voting. This method was selected to ensure participation by the maximum number of alumni.
- vi) The Association held its Annual General Meeting at the 10<sup>th</sup> Symposium.



Alumni Association AGM

### 4.5.4 Other outreach activities

During the reporting period, WaterNet also participated in the following events:

- The Chairman, Interim Manager, the Manager-Designate (who made an oral presentation based upon his PhD research project in the Challenge Program) and Manuel Magombeyi, winner of the 2008 Young Scientists' Award (who made a poster presentation based upon his PhD research project in the Challenge Program) participated in the World Water Week in Stockholm, August 2009. The visibility of WaterNet's research output was also enhanced by a presentation by Dr Alain Vidal, head of the Challenge Program on Water and Food, whose presentation focussed upon three projects, including that led by WaterNet. There was also an important side session on regional education, arranged by Cap-Net, at which the former Manager, Bekithemba Gumbo, made a presentation.
- The Manager attended the FANRPAN Regional Policy Dialogue in Maputo, September 2009.
- The Programme Officer participated in the 2<sup>nd</sup> Africa Water Week in Johannesburg, November 2009. The 2<sup>nd</sup> Africa Water week focused on how to translate the commitments made at the African Heads of State and Government Summit in Sharm El Sheikh July 2009 to meet the Millennium Development Goals targets, into



Session where Dr Vidal, Mr Love and Mr Magombeyi presented



WaterNet stand, 2<sup>nd</sup> Africa Water Week

concrete action on the ground. The event was officially opened by the South African Minister of Water and Environmental Affairs, Buyelwa Patience Sonjica. The 2nd Africa Water week addressed four sub-themes: Financing water infrastructure, Closing the sanitation gap, Climate adaptation in water resources and Trans-boundary waters

- The Manager participated in the Cap-Net Network Managers' Meeting in Tobago, 7 – 10 December 2009. As well as sharing experiences between different capacity building networks, this meeting provided an opportunity for developing inter-network projects, such as the initiative WaterNet is commencing with Cap-Net Brasil.

## 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 IIb 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 apparent overall under-spending on the Project mainly due to the spread of costs on activities spanning the transition from Phase IIa to Phase IIb and to disbursements which should have been made during the reporting period but were delayed and ultimately paid out in early 2010. This was due to late submission of invoice (UNESCO-IHE) or reports and supporting documentation (Universities of Dar-es-Salaam and Zimbabwe).

### 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.

The three day delay incurred in submission of the financial report was due to an apparent discrepancy around a MoneyGram transfer. This was resolved: one request for MoneyGram payment was split by the Trust's Bankers into two separate MoneyGrams (with the same total value as the original single request) and there was poor communication between the Trust's Bankers and Accounting Firm in this regard. This problem can be ascribed to the fact that Management requested the introduction of MoneyGram transfers in the last quarter of 2009 and it took some time for the communication and reporting procedures to be fully synchronised. The decision to use MoneyGram transfers was to provide an alternative to the practice of the Trust's employees carrying cash in bank notes across international boundaries between the Bank in Botswana and the point of use at the Management offices in Zimbabwe or at the venue of an event elsewhere in the region. That practice was terminated due to concerns as to the safety and security associated with carrying bank notes across international boundaries and the potential for associated money laundering concerns.

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

CONSOLIDATED RECEIPTS AND EXPENDITURES STATEMENT PERIOD From 1 July - 31 December 2009 (in Euro)														
Description	A1	A2	B1	B2	C1	C2	C3	C4	D1=B1+C1+C3	D2=B2+C2	E1=A1-D1	E2=A2-D2	F1	Comments
	Phase IIb approved budget 2009		Accumulated Phase IIb expenditures for the period at 30 June		Phase IIb Expenditure July - December 2009				Accumulated Phase IIb expenditures for the period at 31 December 2009		Variation (compared to Phase IIb budget)		Phase IIa expenditures at 31 Dec 2009	
	DGIS	SIDA	DGIS	SIDA	DGIS	SIDA	EU-ACP	Other	DGIS	SIDA	DGIS	SIDA	SIDA	
	DGIS	SIDA	DGIS	SIDA	DGIS	SIDA	EU-ACP	Other	DGIS	SIDA	DGIS	SIDA	SIDA	
<i>To forge a strong, demand driven and sustainable network</i>														
WaterNet Management Fund	436,000		243,646		255,101				498,747	-	(62,747)	-		Overexpenditure of 14%, largely due to hiring of interim staff and costs of interviews for all senior positions.
International Scientific Backstopping	90,000		14,000		32,073				46,073	-	57,927	-		Underexpenditure due to (i) UNESCO-IHE did not invoice for expenses in second semester 2009 until early 2010 and (ii) postponement of some curriculum review activities
Nodal Strengthening Fund	25,000		-		16,826				16,826	-	8,174	-		Demand on this fund remains unsatisfactory.
	551,000	-	257,646	-	304,000	-	-	-	561,646	-	3,353	-	-	
<i>To raise awareness and understanding on IWRM at catchment, basin and transboundary scales</i>														
Symposium Fund	90,000		17,844		80,893				98,737	-	9,107	-	-	Symposium was a success: underexpenditure reported represents savings and is highly satisfactory.
Publication Fund	30,000		6,785		6,000				12,785	-	24,000	-		Expenditure on this fund was unsatisfactory, during the reporting period, but proposals for funding up to three books were under consideration in late 2009: fund should be more active in next reporting period.
	120,000	-	24,629	-	86,893	-	-	-	111,521	-	33,107	-	-	
<i>To support higher education in IWRM, by delivering and strengthening the jointly owned WaterNet Master programme in IWRM</i>														
Fellowship Fund		365,000		29,078		149,959			-	179,037		185,963	205,180	During the reporting period, all disbursements to the Masters' host institutions were booked on Fellowship Fund and not on the Dissertation or Staff Exchange Fund (this practice has now been terminated).
MSc Dissertation Fund		90,000		807		-			-	807		89,193		Once the three funds are considered together, and the expenditure incurred under Phase IIa is also considered, there is an under-expenditure of €127,598.
Staff Exchange Fund	72,500		1,289		14,878				16,167	-	57,622	-		This is roughly equivalent to two disbursements which were withheld from the host institutions until they had submitted some outstanding requirements (this was done in early 2010).
Curriculum Development Fund	12,000		-		992				992	-	11,008	-		Underexpenditure used to finance Curriculum Review Workshop early 2010
Professorial Chair Fund		100,000		4,928		38,252			-	43,180		56,820	4,676	Under-expenditure due to delays in appointments
	84,500	555,000	1,289	34,813	15,870	188,211	-	-	17,159	223,024	68,630	331,978	209,856	
<i>To increase the accessibility to professional training and education in IWRM for staff in water related businesses in Southern Africa</i>														



Description	A1	A2	B1	B2	C1	C2	C3	C4	D1=B1+C1+C3	D2=B2+C2	E1=A1-D1	E2=A2-D2	F1	Comments
	Phase IIb approved budget 2009		Accumulated Phase IIb expenditures for the period at 30 June		Phase IIb Expenditure July - December 2009				Accumulated Phase IIb expenditures for the period at 31 December 2009		Variation (compared to Phase IIb budget)		Phase IIa expenditures at 31 Dec 2009	
	DGIS	SIDA	DGIS	SIDA	DGIS	SIDA	EU-ACP	Other	DGIS	SIDA	DGIS	SIDA	SIDA	
Catchment Partnership Fund	17,500		-		22,837				22,837	-	(5,337)	-	-	Overexpenditure due to disbursement of funds to cover activities extending into 2010.
Professional Training Fund	115,000		27,136		30,421		25,544		83,101	-	94,579	-	-	Underexpenditure due to (i) cofunding received from EU-ACP and (ii) postponement of two courses to early 2010.
Language Course Fund	20,000		-		7,481				7,481	-	12,519	-	-	Language course to be delivered early 2010.
	152,500	-	27,136	-	60,739	-	25,544	-	113,419	-	91,761	-	-	
<i>To stimulate, regionalise and strengthen research in the field of WRM in the Southern Africa Region by offering opportunities to perform joint research</i>														
Staff Development Fund	25,000		-		15,000				15,000	-	10,000	-	-	Third application under consideration late 2009 but not yet disbursed.
Alumni Association Fund	18,000		1,249		8,771				10,020	-	9,229	-	-	Association's workplan only approved late 2009
	43,000	-	1,249	-	23,771	-	-	-	25,020	-	19,229	-	-	
Contingencies	951,000	555,000	311,949	34,813	491,272	188,211	25,544	-	828,765	223,024	216,081	331,976	209,856	
	19,000	12,000							-	-	19,000	12,000		
	970,000	567,000	311,949	34,813	491,272	188,211	25,544	-	828,765	223,024	235,081	343,976	209,856	

## 6 DEVIATION FROM PLANNED ACTIVITIES

No substantial deviations.

## 7 Response to comments made on previous report

<i>Comment by DGIS</i>	<i>Response by WaterNet</i>
<b>Increase efforts in the area of professional courses and training</b>	Delivery has been increased and WaterNet is implementing initiatives to realise more leverage and make more efficient use of resources, to have more targeted and demand responsive training, to build new partnerships and to build the capacity of young water professionals (see section 4.3.1).
<b>Plans to deal with delays in appointing Chairs</b>	In regard to the two delayed appointments, the University of Malawi (UNIMA) and the Polytechnic of Namibia (PON) were advised that should delays continue, the endowment of the Chair could be reconsidered. This resulted in a favourable response at PON (see section 4.4.4).
<b>Plans to deal with high fees at the University of Dar-es-Salaam</b>	The Management Board resolved at the meeting in October to reduce the number of fellowships offered through the University of Dar-es-Salaam and increase those offered through University of Zimbabwe to keep the fellowships within the budget allocation. Subsequently, the University of Dar-es-Salaam conceded to reduce its fees and this decision by the Board was reverted (see section 4.2.3)
<b>Consider reducing international travel where possible</b>	Efforts have commenced in this area and we shall report on this in the next report.

Harare, April 2010

Harare, April 2010

David Love MSc MWISA  
WaterNet Manager

Wilson Rufaro Nyemba MSc  
WaterNet Trust, Chairman



## **8 ANNEXES**

Annex 1: Consolidated Financial Report (1 July 2009 to 31 December 2009) .....	42
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## **ANNEX 1: CONSOLIDATED FINANCIAL REPORT (1 JULY 2009 TO 31 DECEMBER 2009)**

**CONSOLIDATED RECEIPTS AND EXPENDITURES STATEMENT PERIOD From 1 July - 31 December 2009 (In Euro)**

Description	A1	A2	B1	B2	C1	C2	C3	C4
	Phase IIb approved budget 2009		Accumulated Phase IIb expenditures for the period at 30 June		Phase IIb Expenditure July - December 2009			
	DGIS	SIDA	DGIS	SIDA	DGIS	SIDA	EU-ACP	Other
<i>To forge a strong, demand driven and sustainable network</i>								
WaterNet Management Fund	436,000		243,646		255,101			
International Scientific Backstopping	90,000		14,000		32,073			
Nodal Strengthening Fund	25,000		-		16,826			
	<b>551,000</b>	<b>-</b>	<b>257,646</b>	<b>-</b>	<b>304,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
<i>To raise awareness and understanding on IWRM at catchment, basin and transboundary scales</i>								
Symposium Fund	90,000		17,844		80,893			
Publication Fund	30,000		6,785		6,000			
	<b>120,000</b>	<b>-</b>	<b>24,629</b>	<b>-</b>	<b>86,893</b>	<b>-</b>	<b>-</b>	<b>-</b>
<i>To support higher education in IWRM, by delivering and strengthening the jointly owned WaterNet Master programme in IWRM</i>								
Fellowship Fund		365,000		29,078		149,959		
MSc Dissertation Fund		90,000		807		-		
Curriculum Development Fund	12,000		-		992			
Staff Exchange Fund	72,500		1,289		14,878			
Professorial Chair Fund		100,000		4,928		38,252		
	<b>84,500</b>	<b>555,000</b>	<b>1,289</b>	<b>34,813</b>	<b>15,870</b>	<b>188,211</b>	<b>-</b>	<b>-</b>
<i>To increase the accessibility to professional training and education in IWRM for staff in water related businesses in Southern Africa</i>								
Catchment Partnership Fund	17,500		-		22,837			
Professional Training Fund	115,000		27,136		30,421		25,544	
Language Course Fund	20,000		-		7,481			
	<b>152,500</b>	<b>-</b>	<b>27,136</b>	<b>-</b>	<b>60,739</b>	<b>-</b>	<b>25,544</b>	<b>-</b>
<i>To stimulate, regionalise and strengthen research in the field of IWRM in the Southern Africa Region by offering opportunities to perf</i>								
Staff Development Fund	25,000		-		15,000			
Alumni Association Fund	18,000		1,249		8,771			
	<b>43,000</b>	<b>-</b>	<b>1,249</b>	<b>-</b>	<b>23,771</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Contingencies</b>	<b>951,000</b>	<b>555,000</b>	<b>311,949</b>	<b>34,813</b>	<b>491,272</b>	<b>188,211</b>	<b>25,544</b>	<b>-</b>
	<b>19,000</b>	<b>12,000</b>						
	<b>970,000</b>	<b>567,000</b>	<b>311,949</b>	<b>34,813</b>	<b>491,272</b>	<b>188,211</b>	<b>25,544</b>	<b>-</b>

Description	Notes	Comments	B1	B2	B3	B4		
Phase IIB Receipts July to December 2009								
			DGIS	SIDA	EU-ACP	Other	Total	
<b>Receipts</b>								
Grants received	1		483,066	477,490	25,544	-	986,100	
Interest income	2		453	-	-	-	453	
Membership subscriptions	3		-	-	-	-	-	
Course fees			-	-	-	-	-	
Overhead			-	-	-	-	-	
Other income			-	-	-	-	-	
<b>Funding Income</b>			<b>483,519</b>	<b>477,490</b>	<b>25,544</b>	<b>-</b>	<b>986,552</b>	
<b>Other Income</b>								
Balance of funds from Phase IIa	4		-	-	-	-	-	
Gain on foreign currency exchange			-	-	-	-	-	
<b>Total receipts</b>			<b>483,519</b>	<b>477,490</b>	<b>25,544</b>	<b>-</b>	<b>986,552</b>	
<b>Opening cash and bank balances</b>			583,092				583,092	
			1,066,611	477,490	25,544	-	1,569,644	
<b>Total</b>			<b>1,066,611</b>	<b>477,490</b>	<b>25,544</b>	<b>-</b>	<b>1,569,644</b>	

Description	Notes	Comments	Amount	Amount	Amount	Amount	Amount
Disbursements - per above			491,272	188,211	25,544	-	705,027
						-	-
Prepayments			658	-	-	-	658
Loss on foreign currency exchange			6,793	-	-	-	6,793
Advances	5		(13,756)	-	-	-	(13,756)
Commitments	6		38,307	-	-	-	38,307
Challenge programme	7		14,474	(28,000)	-	-	(13,526)
Balance of funds owed by SIDA	8		176,969	(176,969)	-	-	-
Transfer of 2008 fellowship fund expenditure to SIDA	10		(168,760)	22,919	-	-	(145,841)
Grants receivable at period-end	9		8,798	-	-	-	8,798
Net interest earned on SIDA funds	2		-	(55)	-	-	(55)
						-	-
<b>Total disbursements</b>			<b>554,756</b>	<b>6,106</b>	<b>25,544</b>	<b>-</b>	<b>586,406</b>
<b>Net Increase of cash receipts</b>			<b>511,854</b>	<b>471,384</b>	<b>-</b>	<b>-</b>	<b>983,239</b>
<i>Evidenced by cash and bank balances</i>	11		511,854	471,384			983,239



**NOTES TO THE CONSOLIDATED RECEIPTS AND EXPENDITURES STATEMENT PERIOD 1 July  
to 31 December 2009 (In Euro)**

	1 July - 31 Dec 2009	1 Jan - 30 June 2009
<b>1. Grants received</b>		
Received as follows during the period under review:		
Netherlands Ministry of Development Cooperation (DGIS)	483,066	387,117
Swedish International Development Cooperation Agency (SIDA)	477,490	221,750
Cap-Net (UNOPS originally from EU-ACP)	13,234	-
Cap-Net (UNOPS originally from EU-ACP)	<u>12,309</u>	<u>-</u>
	<u>986,100</u>	<u>608,867</u>
<b>2. Interest income</b>		
<i>On DGIS funds:</i>		
The DGIS agreement states that interest earned on grants received should be used to finance the agreed upon activities. It further states that the interest should not be used for capital formation.	453	558
<i>On SIDA funds:</i>		
The SIDA agreement states that the interest income should be refunded to SIDA within six months of the end of the programme.	<u>55</u>	<u>-</u>
	<u>507</u>	<u>558</u>
<b>3. Membership subscriptions</b>		
Full information regarding member subscriptions was not received at the time of preparation of this report as such, it has not been taken into account. Information will however, be included in the consolidated annual report covering the period 1 January 2009 to 31 December 2009.		
<b>4. Balance of funds from Phase IIa</b>		
	<u>18,226</u>	<u>18,226</u>
These represent funds from the Phase IIa project that are yet to be repatriated to UNESCO-IHE Institute for Water Education after final closure of the project.		
<b>5. Advances</b>		
This represents a balance due from the University of KwaZulu-Natal (UKZN), South Africa for a short course on climate change and water resources that was conducted on 26 to 30 January 2009. A report has now been received from UKZN.	<u>366</u>	<u>14,122</u>
<b>6. Commitments</b>		
These represent pledges made by the Trust at period-end as follows:		
Nyati Travel (Pvt) Ltd (Jan-June 09: USD 31 180)	-	23,338

**NOTES TO THE CONSOLIDATED RECEIPTS AND EXPENDITURES STATEMENT PERIOD 1 July  
to 31 December 2009 (In Euro)**

	1 July - 31 Dec 2009	1 Jan - 30 June 2009
Makere University (Jan-June 09: USD 24 000)	-	17,844
Dr B Ncube	-	3,175
KPMG - BWP 87 401 (Jan-June 09: BWP 27 145)	8,793	2,743
	<u>8,793</u>	<u>47,100</u>
<b>7. Challenge programme</b>		
These are costs incurred which must be reimbursed from the Challenge Program, which is a special project whose accounts are presented, reported and audited separately.	<u>14,541</u>	<u>167</u>
<b>8. Balance of funds owed by SIDA</b>		
These represent the balance of funds owed to DGIS from the inception of Phase 11b for payment of the Fellowship Fund, Professorial Fund and the MSC Dissertation Fund, which are funded by SIDA. These cover the period from July 2008 to December 2009.	<u>175,969</u>	<u>-</u>
<b>9. Grants receivable at Period-end</b>		
These are balance of grants receivable for two courses that were funded by the WaterNet Trust in conjunction with Cap-Net and UNOPS. These grants have since been received in the 2010 financial year.	<u>8,798</u>	<u>-</u>
<b>10. Transfer of 2008 Fellowship Fund expenditure to SIDA</b>		
This represents Euro 145 841 which was shown on the 2008 audited report as being funded by DGIS when it is a SIDA funded activity. This amount has now been transferred to SIDA and is included in the amount payable to DGIS - refer to Note # 8.	<u>145,841</u>	<u>-</u>
<b>11. Cash and bank balances</b>		
Cash balances	7,731	9,285
Bank balances	<u>504,124</u>	<u>573,807</u>
	<u>511,854</u>	<u>583,092</u>

Included in the bank balances is Euro 392 (USD 550) which was appropriated by the Government of Zimbabwe during the period under review; the amount is a mirror balance as it exists only on paper i.e. bank statement. It is however, expected that this amount will be refunded by the State as such, it has not been written off.

