

# Coordination of IWRM

in the

## Cuvelai-Etoshia Basin



## Workshop Report

Oshakati, 28-30 April 2010

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Prepared for:

IWRM C-EB Project

On behalf of:

GTZ, Windhoek (Namibia)

Compiled by:



*Consulting Synergies Africa*<sup>cc</sup>

Ulfried Schwacke

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## **ABBREVIATIONS/ ACRONYMS**

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<b>BGR</b>	The Federal Institute for Geosciences and Natural Resources, Germany
<b>BMC</b>	Basin Management Committee (GRN Policy)
<b>C-EB</b>	Cuvelai-Etosha Basin (Northern Namibia)
<b>CPP-CCA</b>	Country Pilot Partnership Namibia - Climate Change Adaptation Project
<b>CPP-CALLC</b>	Country Pilot Partnership Namibia - Capacity through Local Level Coordination
<b>DWSSC</b>	Directorate of Water Supply & Sanitation Coordination, MWAF
<b>DWAF</b>	Department of Water Affairs & Forestry, Ministry of Agriculture, Water & Forestry
<b>DED</b>	Deutsche Entwicklung Dienst (German Development Service)
<b>DEES</b>	Directorate of Extension & Engineerings Services, MWAF
<b>EU</b>	European Union
<b>ISOE</b>	Institute for socio-ecological Research (Institut für sozial-ökologische Forschung)
<b>IWRM</b>	Integrated Water Resources Management
<b>LWC</b>	Local Water Committee
<b>MWAF</b>	Ministry of Agriculture, Water & Forestry
<b>NRCS</b>	Namibia Red Cross Society
<b>RDCC</b>	Regional Development Coordination Committee
<b>TA</b>	Traditional Authority
<b>WATSAN</b>	Water and Sanitation Policy of GRN
<b>WPC</b>	Water Point Committee

## ACKNOWLEDGEMENTS

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The IWRM C-EB Project Team members in Oshakati and Windhoek did an excellent job of preparing the event.

This entailed contacting and following up with stake-holders who were to make presentations; liaising with a broad spectrum of invited participants to ensure that invitations and logistical arrangements were taken care of; preparing folders for all participants; securing accommodation and transport for different groups of participants from all parts of the country; ensuring that guests of honour were briefed and properly received; ...and many details too numerous to mention.

Their dedication to the cause of IWRM in northern Namibia is applauded!

Another group of individuals who made a crucial contribution to the success of this event are the numerous presenters. They put in a special effort to customise their materials to the requirements of the workshop process, from which flowed the exploratory networking successes of the event.

To single out any individual names would deny the spirit of co-operation amongst the team members!

Finally, a word of thanks is extended to the representatives of Traditional Authorities, Regional Councils and Local Authorities from the four regions in attendance. They completed the circle of cooperation between water users, administrators, community mobilisers and scientists.

### Illustration 1: Integrating water resources usage sustainably ...a management challenge for the BMC!



## PART ONE: OUTCOMES

### 1. BACKGROUND

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The sustainable use of water resources of the Cuvelai-Etosha Basin is one of the Namibian Government's key development priorities in the water sector.

The Ministry of Agriculture, Water and Forestry spearheads Government's initiatives to constantly improve service delivery to water users in this basin. The ministry is assisted by several project-based role players within agriculture, water and forestry.

As the message of *integrated resource management (IRM)* drives home, an increasing number of resource users and scientists have come to realize that this implies inter-dependence!

At the centre of IRM in the water sector is the Ministry's multiple-partner project: Integrated Water Resource Management in the Cuvelai-Etosha Basin. Given Government's policy of establishing *Basin Management Committees (BMC)* as the vehicle towards sustainable, integrated management of water and related resources, the IWRM-CEB Project accepted the challenge of improving cooperation amongst the many role players in this basin.

The project office at Oshakati, with support from Windhoek, provided all role players a platform to explore new and better avenues of cooperation and coordination. The three-day event consisted of a two-day networking workshop (Oshandira Lodge, Oshakati) and a one-day field trip to two localities, that served to illustrate initiatives and needs in the water sector.

#### Workshop Objectives

1. To share information on progress of identified projects and institutions operating in CEB and involved in IWRM

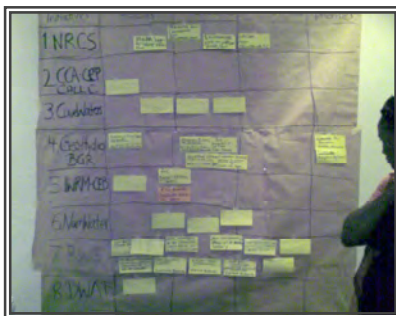
2. To identify gaps and opportunities for co-operation and synergies amongst projects operating in CEB and involved in IWRM

3. To harmonise the coordination of common activities in various projects operating in CEB

#### 1.1 Approach

The workshop process is captured in three steps:

**SHARE** information - **IDENTIFY** opportunities - **HARMONISE** coordination



The evidence of success in the above endeavour is found in the more than thirty "co-operation initiatives" recorded and posted on the **Coordination Matrix** at the close of the workshop.

Illustration 2: Workshop outcomes - Cooperation Matrix postings

This process design was largely motivated by inputs from the previous year's IWRM-planning workshop (Outapi Town Lodge, Omusati Region – 15-16 April 2009).

#### Stage 1 Progress report:

This event created a forum at which many basin role-players would be considering water resources management issues *jointly* for the very first time. Others, however, would be *returning* to hear and assess whether there had been any progress since the previous workshop.

To do justice to continuity of purpose and direction, the Ishana Basin Management Committee representative reported on those developments.

### Stage 2 Focus on common goals / Prioritised water-user needs

In recognition of Government's fundamental mandate – *to help address water users' needs in the Basin* – this stage of the workshop highlighted the most prominent needs of water users in each of the four regions that are part of the C-EB.

The presentations had been prepared by the Regional Councils. They reflect the needs captured through various consultative planning processes that are made possible through policy-based structures of government such as the RDCC's.

The setting was ideal for identifying gaps and new opportunities to better plan for meeting these needs. Grouped into regional discussion circles, water users from all levels of governance conferred with the administrators and scientists. Thus they reviewed and cross-checked the reported needs (see previous paragraph), ensuring that the list was complete and reaching consensus on the priorities.

This outcome is reported in full in Section 2.1 below.

### Stage 3 Harmonised co-operation:

This final thrust of the event addressed the event's ultimate goal:

→ improved cooperation between IWRM role-players and stakeholders in the C-EB.

The forum platform allowed every project and institution operating in the basin to make a brief presentation. This covered •objectives, •approach to the development challenges and •the outcomes aimed for or achieved.

Participants listened critically, in order to identify opportunities for cooperation and coordination. The spirit of *networking* – which had been emphasized throughout the event – was now given practical application.

During the closing round, the workshop was converted into a “services & technology market”. Providers/suppliers hosted the enquiries of water-users and other projects/institutions.

This outcome is reported in full in Section 2.2 below.

## **1.2 Participation**

The following projects and/or initiatives were represented (the complete list of participants and their contact details are posted in Part Two, Section 2:

- Country Pilot Partnership Namibia - Climate Change Adaptation Project (CPP-CCA)
- Country Pilot Partnership Namibia - Capacity through Local Level Coordination (CPP-CALLC)
- CuveWaters ...IWRM in Central Northern Namibia (Cuvelai-Delta) supported by Institute for Socio-Ecological Research (ISOE)
- Department of Water Affairs & Forestry, (DWAF, MAWF)
- Geo-Hydrology, MAWF in co-operation with BGR
- GTZ Integrated Water Resources Management in the Cuvelai-Etosha Basin (IWRM-CEB)
- Namibia Red Cross Society (NRCS)
- NamWater
- Directorate of Water Supply & Sanitation Coordination, (DWSSC, MAWF)

## **2. OUTCOMES: HIGH PRIORITY ‘GAPS’ – DEMAND SIDE**

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The workshop produced two sets of concrete outcomes. They represent the two dimensions of ‘demand’ and ‘supply’ respectively:

- **Demand:** prioritised water-user needs per Region
- **Supply:** informal agreements to develop improved cooperation between specific role-players

Users of this report are now able to concentrate on the priorities set out in the listings below. These revised priorities are the outcome of consultation between: (i) water-user representatives, (ii) administrators, (iii) community mobilisers and (iv) IWRM experts within each Region.

### **Oshana Region**

#### **1<sup>st</sup> LIST**

#### **REVISED LIST**

1. Water for household use (Elongifo lomeva momaumbo)	1. Water for household- & industrial usage
2. Water for domestic & wild animals (Elongifo lomeva koinamwenyo yo momaumbo no moixwa)	2. Water for animal consumption (Domestic and Wild animals)
3. Water for industrial usage (Elongifo lomeva meengeshefa)	3. Capacity building incentive for water point committee manager; & water subsidy
4. Water for horticultural use (Elongifo lomeva moikunino)	4. Water for aquaculture and horticulture
5. Water for aquaculture (Elongifo lomeva mee farma douteku weeshi)	5. Flood management

### **Ohangwena Region**

#### **1<sup>st</sup> LIST**

#### **REVISED LIST**

1. Water conservation for irrigation, aquaculture, etc.	1. Water conservation
2. Introduce mitigation strategies	2. Determine groundwater status (quality and quantity; e.g. fluoride)
3. Determine groundwater status (quality and quantity), assess surface water resources	3. Affordability of water
4. Inter-basin water supply infrastructure	4. Inter-basin water supply infrastructure
5. Water should be affordable to all consumers	5. Capacity building: raising awareness, aquaculture, gardening

**Omusati Region**

**1<sup>st</sup> LIST**

**REVISED LIST**

1. 50-90km bulk supplier pipeline/ accessibility to clean water <i>(from Okahao Constituency to remote areas)</i>	1. Water harvesting for irrigation & aquaculture
2. Boreholes, water purification <i>(underground resources as water source for rural communities)</i>	2. 50-90km bulk supplier pipeline/accessibility to clean water
3. 4-5km water pipelines <i>(to reduce walking distances)</i>	3. Water pricing and affordability
4. Water harvesting facilities <i>(e.g., to widen or deepen the existing shana)</i>	4. Sanitation
5. Flood management <i>(improve the flood management techniques and measures)</i>	5. 4-5km water pipelines <i>(to reduce walking distances)</i>

**Oshikoto Region**

**1<sup>st</sup> LIST**

**REVISED LIST**

1. Incentives to members of the WPCs	1. Extension of existing infrastructure & development of alternative water sources <i>(households, livestock and gardening)</i>
2. Information and Education <i>(better ways to conserve water; wise food production &amp; gardening; education to promote good water demand mgt.)</i>	2. Incentives to members of the WPCs
3. Fairness and transparency in tariff-/price setting	3. Information on tariff settings and Education on water conservation
4. Diversification of income sources	4. Diversification of Income sources
5. Extension and development of other alternative water infrastructures	5. Improved sanitation



### 3. OUTCOMES: COOPERATION OPPORTUNITIES – *SUPPLY SIDE*

The networking fair during the final session of Day Two gave participants an opportunity to approach, explore and agree on issues of cooperation or coordination. The networking outcomes produced no less than thirty such informal cooperation agreements. The detailed register of these agreements is on record in Part Two (below).

Table 1: Matrix of cooperation and coordination opportunities

<b>Projects/ Institutions</b>	<b>Agreements recorded with:</b>	<b>Total</b>
CPP-CALLC	<ul style="list-style-type: none"> <li>•IWRM-CEB</li> <li>•NRCS</li> </ul>	2
CuveWaters	<ul style="list-style-type: none"> <li>•DEES</li> <li>•DWSSC</li> <li>•Epyashona/Okatana</li> <li>•LWC Akuna-Okaku</li> <li>•Ohangwena RC</li> </ul>	5
DWAF	<ul style="list-style-type: none"> <li>•Ohangwena RC</li> </ul>	1
DWSSC	<ul style="list-style-type: none"> <li>•EU Delegation Office</li> <li>•Oukwanyama TA</li> <li>•Uukolonkadhi TA</li> <li>•Uukwaludhi TA (x2)</li> <li>•Onashiku WPC</li> <li>•Omaalala-Ondangwa LWC</li> <li>•Ohangwena RC</li> </ul>	7
Geo-Hydro/BGR	<ul style="list-style-type: none"> <li>•DWSSC (Ohangwena)</li> <li>•IWRM-CEB Project</li> <li>•Omaruru River BMC</li> <li>•Okavango BMC</li> <li>•Ohangwena RC</li> <li>•WPC @ Omeya Museum</li> </ul>	6
IWRM-CEB	<ul style="list-style-type: none"> <li>•Omusati RC</li> <li>•Ohangwena RC</li> </ul>	2
Namwater	<ul style="list-style-type: none"> <li>•Uukwiyu-Uushona Constituency</li> <li>•Ondjibandjimba WPC</li> <li>•Ongwediva Constituency</li> </ul>	3
NRCS	<ul style="list-style-type: none"> <li>•Eenhana TC</li> <li>•Ohangwena RC</li> <li>•DWSSC</li> <li>•Omupanda-Ounongo LWC</li> <li>•EU Delegation Office</li> </ul>	5
Orange-Fish BMC	<ul style="list-style-type: none"> <li>•DWSSC</li> </ul>	1
Total:		32

#### **4. OUTCOMES: FIELD-TRIP DISCUSSION ON WATER HARVESTING**

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The field-trip groups gathered at the workshop venue for a brief de-briefing. Most of the discussion related to the “water harvesting” options for the C-EB.

##### **Question 1**

A participant suggested that a canal should be constructed to withdraw water from the Iishana to a ground dam instead of just harvesting water from the rain which will supply water to less people.

##### **Answer:**

A representative from CuveWaters indicated that water from Iishana is not suitable for the purpose of irrigation, domestic use and the other purposes for which the communities are using rain water. Therefore the idea of constructing a canal to draw water from Iishana will be looked at but not to *replace* rain water harvesting activities.

##### **Question 2**

There was a concern that the type of pedal pump that is used in transferring water from the dam or tanks is not available (commercially) in Namibia.

##### **Answer:**

A representative indicated that contacts for sourcing the type of pump are available. However, he indicated that collaboration with local institutions to produce it locally is being prepared.

##### **Question 3**

There was a question on the expansion of the project to rural areas and other regions.

##### **Answer:**

The project has plans to expand to other areas. It was discussed that there is a possibility to collaborate with Namibia Red Cross Society to construct water harvesting structures for vulnerable people.

## PART TWO: RECORDS OF PROCEEDINGS

### 1. REGISTER OF COOPERATION AGREEMENTS

During the networking fair, participants engaged in exploratory discussions to test cooperation possibilities. These areas of cooperation were recorded individually (personally) and are documented for “the record” below.

#### Agreement between

<b>1.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	CuveWaters	↔	Directorate of Extension & Engineerings Services
<u>Contact persons:</u>	Mathias Polak, 081-4432425, <a href="mailto:Mathias.polak@web.de">Mathias.polak@web.de</a>		Charly Mwaetako, 081-2337072, <a href="mailto:mwaetakoc@mawf.gov.na">mwaetakoc@mawf.gov.na</a>
<u>Topic/Issue:</u>	<b>Rainwater Harvesting:</b> Cooperation via extension officers, harmonize information via meeting Mathias, the CuveWaters field facilitator		
<u>Start when:</u>	<b>Soonest possible</b>		
<u>Where:</u>			

<b>2.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	CuveWaters	↔	Epyashona/ Okatana (Ongwediva)
<u>Contact persons:</u>	Mathias Polak, 081-4432425, <a href="mailto:Mathias.polak@web.de">Mathias.polak@web.de</a>		Charly Mwaetako, 081-2337072, <a href="mailto:mwaetakoc@mawf.gov.na">mwaetakoc@mawf.gov.na</a>
<u>Topic/Issue:</u>	<b>Rainwater Harvesting techniques</b>		
<u>Start when/period:</u>	<b>2010-2011</b>		
<u>Where:</u>	<b>In the project pilot area</b>		

<b>3.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	CuveWaters	↔	DWSSC
<u>Contact persons:</u>	Dr. Thomas Kluge, 081-6115567		Ronn Kaheka, 081-1296060
<u>Topic/Issue:</u>	<b>a. Information exchange - WATSAN b. Appropriate groundwater monitoring</b>		
<u>Start when/period:</u>	<b>Forum start-up/arrival get together</b>		
<u>Where:</u>	<b>WatSan Forum</b>		

**4.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
<b>CuveWaters</b>	<b>LWC Akuna-Okaku</b>
Alex Jokisch, 081-6078554, <a href="mailto:a.jokisch@iwar.tu.darmstadt.de">a.jokisch@iwar.tu.darmstadt.de</a> Jenny Eisold, 081-4363725, <a href="mailto:eisold@isoe.de">eisold@isoe.de</a> ,	Vailet Emvula, Omwya Museum Project, Cell: 0608052877, <a href="mailto:vemvula@gmail.com">vemvula@gmail.com</a> , Omandombe village
<b>Water Museum – Sub-surface Water Storage: Information display and exchange</b>	
<b>May 2010</b>	
<b>send info material to Vailet</b>	

**5.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
<b>CuveWaters</b>	<b>Ohangwena Regional Council</b>
Jenny Eisold, 081-4363725 or Alexander Jokisch, 081- 6078554	Daniel VH Kashikola, Chief Regional Officer, Eehana, 081-1287031 <a href="mailto:dvhkashikola@ohangwenarc.gov.na">dvhkashikola@ohangwenarc.gov.na</a>
<b>Diffusion of sanitation and subsurface water storage – adaptation to climate change</b>	
<b>Meet July 2010 for further info exchange on diffusion of technologies</b>	
<b>joint meeting</b>	

**6.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
<b>CPP (Nam) CALLC Project</b>	<b>IWRM-CEB</b>
Eliaser Nambinga, 065-233820, 081-2570766	Ernst Mbangula, 081-2298118
<b>Coordination and Collaboration: Different issues of water management &amp; provision for rural community</b>	
<b>2010 – 2011</b>	
<b>In all four northern-central regions</b>	

**7.**

Institution:

Contact persons:

Topic/Issue:

<u>A</u>	<u>B</u>
<b>CPP (Nam) CALLC Project</b>	<b>NRCS</b>
Eliaser Nambinga, 065-233820, 081-2570766	Lot Helao, 065-263177, 081- 2784660, <a href="mailto:lhelao@gmail.com">lhelao@gmail.com</a>
<b>PLWHA Support Group Initiative, Information exchange</b>	

<u>Start when/period:</u>	<b>2010 soonest</b>
<u>Where:</u>	

<b>8.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	DWSSC	↔	Oukwanyama TA
<u>Contact persons:</u>	Ronn Kaheka, 081-1296060		George Hikumwah, 081-2749088
<u>Topic/Issue:</u>	<b>a. Land degradation – information exchange</b> <b>b. WATSAN Forum (Responsibility) Coordination</b>		
<u>Start when/period:</u>	<b>2010</b>		
<u>Where:</u>			

<b>9.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	DWSSC	↔	Uukwaludhi TA
<u>Contact persons:</u>	Ronn Kaheka, 081-1296060		Thomas Mwaala, 081-3292268
<u>Topic/Issue:</u>	<b>Low-pressure pipeline; Tsandi, Phase I – P.O.T.</b>		
<u>Start when/period:</u>	<b>2010</b>		
<u>Where:</u>	<b>Tsandi</b>		

<b>10.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	DWSSC	↔	Onashiku WPC
<u>Contact persons:</u>	Ronn Kaheka, 081-1296060		Ms. Agrippine Shikomba, Onashiku-Okatana Constituency, 081-3972457
<u>Topic/Issue:</u>	<b>Why water was cut-off at Onashiku WP</b>		
<u>Start when/period:</u>			
<u>Where:</u>			

<b>11.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	DWSSC	↔	Omaalala-Ondangwa LWC
<u>Contact persons:</u>	Ronn Kaheka, 081-1296060		Victoria Hamukway, 081-3125081
<u>Topic/Issue:</u>	<b>How the community debts will be settled</b>		
<u>Start when/period:</u>			
<u>Where:</u>	<b>To be agreed</b>		

**12.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
DWSSC	EU Delegation Office
Ronn Kaheka, 081-1296060	Mr. J. De Boer, Donor Partner <a href="mailto:Jacobus.deboer@ec.europa.eu">Jacobus.deboer@ec.europa.eu</a> 081-3862158, 061-2026208 (office)
<b>Sector Coordination:</b> <ul style="list-style-type: none"> <li>o Need to use C-EB as a platform to foster sector coordination</li> <li>o CALLC on Climate Change – ground water vs. surface water</li> </ul>	
<b>Immediate, institutionally, ±3 months through Actor progress report</b>	
<b>EU Offices</b>	

**13.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
DWSSC	Uukwaludhi TA
Ronn Kaheka, 081-1296060	Veikko Iishila, 081-2292645
<b>Earth Dam Constructions: Additional plastic tank to be added + information flow</b>	

**14.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
DWSSC	Uukolonkadhi TA
Ronn Kaheka, 081-1296060	Malakia Shoombe, 065-258877
<b>Sanitation for remote areas or in nearby villages</b>	

**15.**

Institution:

Contact persons:

Topic/Issue:

Start when/period:

Where:

<u>A</u>	<u>B</u>
DWAf	Ohangwena Regional Council
A. Nehemia ?	...?
<b>Ways on how to store flood waters for future use (study)</b>	
<b>During flood</b>	
<b>Cuvelai Basin</b>	

<b>16.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Geo-Hydrology/BGR</b>	<b>→ ←</b>	<b>DWSSC, Ohangwena</b>
<u>Contact persons:</u>	Henry Beukes, 081-1243243, Gereon Hunger, 081-4759621		Ismael Hambudi, <a href="mailto:rwsuheen@iway.na">rwsuheen@iway.na</a> , 065-264258, 081-1400091
<u>Topic/Issue:</u>	<b>Flouride:</b> a. What interventions on equipped boreholes used by population although showing high concentration of Fluoride		
<u>Start when/period:</u>	<b>May-June 2010</b>		
<u>Where:</u>	<b>WATSAN Forum 2010</b>		

<b>17.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Geo-Hydrology/BGR</b>	<b>→ ←</b>	<b>IWRM-CEB Project</b>
<u>Contact persons:</u>	Henry Beukes, 081-1243243, Gereon Hunger, 081-4759621		Beata Xulu, IWRM-CEB Project Coordinator, 081-1296101
<u>Topic/Issue:</u>	<b>Co-operation/ Synergize workplans to achieve combined objectives - Integrated planning</b>		
<u>Start when/period:</u>			
<u>Where:</u>			

<b>18.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Geo-Hydro/BGR</b>	<b>→ ←</b>	<b>Okavango BMC</b>
<u>Contact persons:</u>	Henry Beukes, 081-1243243, Gereon Hunger, 081-4759621		Reinhold Kambuli, tel. 066-256446, <a href="mailto:okbmc@iway.na">okbmc@iway.na</a> <a href="mailto:Reinhold.kambuli@gtz.de">Reinhold.kambuli@gtz.de</a>
<u>Topic/Issue:</u>	<b>Specific Ground Water-information although GW is not yet an issue; GW is supposed to be of more importance in future in OKBMC</b> <b>DWSSC is already active – also in the OKACOM context</b>		
<u>Start when/period:</u>	<b>2010 ...</b>		
<u>Where:</u>			

<b>19.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Geo-Hydrology/BGR</b>	<b>→ ←</b>	<b>Ohangwena Regional Council</b>
<u>Contact persons:</u>	Henry Beukes, 081-1243243, Gereon Hunger, 081-4759621		Daniel VH Kashikola, Chief Regional Officer, Eenhana, <a href="mailto:dvhkashikola@ohangwenarc.gov.na">dvhkashikola@ohangwenarc.gov.na</a> , 081-1287031

<u>Topic/Issue:</u>	<b>Flouride:</b> a. What interventions on equipped boreholes used by population although showing high concentration of Fluoride b. Further information about borehole identification: has been reported to Mr. Ismael Hambudi (has copy of analysis result)
<u>Start when/period:</u>	<b>May – June 2010</b>
<u>Where:</u>	<b>WATSAN Forum 2010</b>

<b>20.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Geo-Hydrology/BGR</b>	→ ←	<b>Omaruru River Basin – OMBMC</b>
<u>Contact persons:</u>	Henry Beukes, 081-1243243, Gereon Hunger, 081-4759621		Eben Nowaseb, Cell: 081-2262313, Tel: 064-570284, <a href="mailto:enowaseb@gmail.com">enowaseb@gmail.com</a>
<u>Topic/Issue:</u>	<b>Ground Water quality testing need and general training needs:</b> a. Testing information/data from GROWAS to identify boreholes; b. Next step sampling/testing together with Geo-H c. Meeting to talk about training needs in order to delegate certain work (monitoring etc.)		
<u>Start when/period:</u>	<b>June 2010 onwards</b>		
<u>Where:</u>			

<b>21.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Geo-Hydrology/BGR</b>	→ ←	<b>WPC (name unclear)</b>
<u>Contact persons:</u>	Henry Beukes, 081-1243243, Gereon Hunger, 081-4759621		Vailet Emvula, Omeya Museum Project, Cell: 0608052877, <a href="mailto:vemvula@gmail.com">vemvula@gmail.com</a> , P.O. Box 2. Ondangwa
<u>Topic/Issue:</u>	<b>Educational Material (Poster) about GW:</b> to make Hydrology understandable to everyone		
<u>Start when/period:</u>	<b>+/- July 2010</b>		
<u>Where:</u>			

<b>22.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>IWRM-CEB</b>	→ ←	<b>Omusati Regional Council</b>
<u>Contact persons:</u>	Beata Xulu, 081-1296101 Ernst Mbangula, 081-2298118		Ms. Mbangula, DD – Rural Services; cell: 081-1480249 Office: 065-251019 Fax: 065-251078
<u>Topic/Issue:</u>	<b>BMC-related issues</b>		



<u>Start when/period:</u>	<b>June 2010</b>
<u>Where:</u>	<b>Workshop</b>

<b>23.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>IWRM C-EB</b>	<b>↔</b>	<b>Ohangwena Regional Council</b>
<u>Contact persons:</u>	Beata Xulu, 081-1296101 Ernst Mbangula, 081-2298118		Ms. Ndaitwa, 081-2718441, 065-264399 (Tel), 065-263033 (Fax), <a href="mailto:nnaapopye@yahoo.com">nnaapopye@yahoo.com</a>
<u>Topic/Issue:</u>	<b>a. BMC formation</b> <b>b. Championing BMC's</b>		
<u>Start when/period:</u>	<b>20 May 2010</b>		
<u>Where:</u>	<b>Ohangwena Region workshop</b>		

<b>24.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>NamWater</b>	<b>↔</b>	<b>Uukwiyu-Uushona Constituency</b> Outani WPC & Okashandja-Olweege LWC
<u>Contact persons:</u>	Abraham Ashipala, 081-1299483		Okashandja-Olweege and Ondangwa-Omuntele Pipelines →Philipus Neshiku, 081-3341789 Engobe-Onkani; Oshakati-Omupale →Karpus Ekandjo, 081-2050900
<u>Topic/Issue:</u>	<b>a. Volunteer in water meter readings</b> <b>b. Security of money collectors</b> <b>c. Co-operation</b> <b>d. Water line maintenance/ late statements, leakages and drum breaks</b>		
<u>Start when/period:</u>			
<u>Where:</u>			

<b>25.</b>	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>NamWater</b>	<b>↔</b>	<b>Ondjibandjimba WPC</b>
<u>Contact persons:</u>	Abraham Ashipala, 081-1299483		Katrina Shikesho, 081-2931163/ Uuvudhiya Ondjibandjimba, Oshakati-Omapale
<u>Topic/Issue:</u>	<b>Importance of water payment by individuals</b>		
<u>Start when/period:</u>	<b>Contact &amp; communicate/liaise</b>		
<u>Where:</u>	<b>To be agreed</b>		

<b>26.</b>	<u><b>A</b></u>		<u><b>B</b></u>
<u>Institution:</u>	NamWater	→ ←	Ongwediva Constituency
<u>Contact persons:</u>	Abraham Ashipala, 081-1299483		Helalia Shipinge, Omapanda-Uunonge, 081-3555585
<u>Topic/Issue:</u>	<b>Lack of importance of water payment - joint co-operation in payment awareness campaign</b>		
<u>Start when/period:</u>	<b>By contacting/liaising</b>		
<u>Where:</u>	<b>By contact</b>		

<b>27.</b>	<u><b>A</b></u>		<u><b>B</b></u>
<u>Institution:</u>	NRCS	→ ←	Eenhana Town Council
<u>Contact persons:</u>	Lot Helao, 065-263177, 081-2784660, <a href="mailto:lhelao@gmail.com">lhelao@gmail.com</a>		Iyambo, 081-2991620
<u>Topic/Issue:</u>	<b>WATSAN issues</b>		
<u>Start when/period:</u>	<b>At forum meeting</b>		
<u>Where:</u>	<b>WATSAN Forum 2010</b>		

<b>28.</b>	<u><b>A</b></u>		<u><b>B</b></u>
<u>Institution:</u>	NRCS	→ ←	Ohangwena Regional Council
<u>Contact persons:</u>	Lot Helao, 065-263177, 081-2784660, <a href="mailto:lhelao@gmail.com">lhelao@gmail.com</a>		Daniel Kashikolo or N. Ndaitwa...?
<u>Topic/Issue:</u>	<b>Bh. Information sharing in Ohangwena for Red Cross Society</b>		
<u>Start when/period:</u>	<b>Next week (follow workshop)</b>		
<u>Where:</u>	<b>Email-conversation</b>		

<b>29.</b>	<u><b>A</b></u>		<u><b>B</b></u>
<u>Institution:</u>	NRCS	→ ←	LWC Omupanda-Ounonge
<u>Contact persons:</u>	Lot Helao, 065-263177, 081-2784660, <a href="mailto:lhelao@gmail.com">lhelao@gmail.com</a>		Helalia Shipinge, 081-3555585 Chairperson of LWC
<u>Topic/Issue:</u>	<b>Training on counselling</b>		
<u>Start when/period:</u>	<b>2010</b>		
<u>Where:</u>	Omupanda School		

<b>30.</b>	<u><b>A</b></u>		<u><b>B</b></u>
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<u>Institution:</u>	<b>NRCS</b>	<b>↔</b>	<b>DWSSC</b>
<u>Contact persons:</u>	Lot Helao, 065-263177 / 065-263286, <a href="mailto:lhelao@gmail.com">lhelao@gmail.com</a>		DWSSC Control Officers Ronn Kaheka rwsoshw@africaonline.com.na
<u>Topic/Issue:</u>	<b>Water Supply and Sanitation:</b> <ul style="list-style-type: none"> <li>- Coordination and complimenting one another</li> <li>- Extension message</li> <li>- Technical cooperation</li> <li>- Coverage</li> <li>- Capacity building of users</li> </ul>		
<u>Start when/period:</u>	<b>June 2010 onwards</b>		
<u>Where:</u>	<b>Ondangwa / Oshakati</b>		

**31.**

	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>NRCS</b>	<b>↔</b>	<b>EU Delegation Office</b>
<u>Contact persons:</u>	Lot Helao, 065-263177, 081-2784660, <a href="mailto:lhelao@gmail.com">lhelao@gmail.com</a>		Sjaak, EU, 061-2026208, <a href="mailto:Jacobus.deboer@ec.europa.eu">Jacobus.deboer@ec.europa.eu</a>
<u>Topic/Issue:</u>	<b>Exchange visit on WATSAN 2011/2011</b>		
<u>Start when/period:</u>	<b>2010 meeting</b>		
<u>Where:</u>	<b>Forum meeting</b>		

**32.**

	<b><u>A</u></b>		<b><u>B</u></b>
<u>Institution:</u>	<b>Orange-Fish BMC</b>	<b>↔</b>	<b>DWSSC</b>
<u>Contact persons:</u>	Kuniberth Shamathe, 061-2087009, <a href="mailto:ShamateK@mawf.gov.na">ShamateK@mawf.gov.na</a>		Ronn Kaheka?
<u>Topic/Issue:</u>	<b>BMC needs: How to prioritise their needs, such as drilling and earthdams</b>		
<u>Start when/period:</u>			
<u>Where:</u>	<b>To be agreed</b>		