



## water affairs

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA

# Support to the Implementation and Maintenance of the Reconciliation Strategy of the Crocodile West Water Supply System

## Minutes of the Study Management Team (SMT) Meeting, No. 6 at 09:00 on 18 November 2010, BKS Pretoria

### 1. WELCOME AND CONSTITUTION OF THE MEETING

The Chairperson, Mr. Tendani Nditwani (TN) (Chief Water Resource Planner: North) opened the meeting.

### 2. ATTENDANCE AND APOLOGIES

#### 2.1 ATTENDANCE

An attendance register was circulated, as noted below:

Tendani Nditwani	(TN)	DWA: NWRP
Witek Jezewski	(WJ)	DWA: NWRP
Sanet van Jaarsveld	(SvJ)	DWA: OA
Lebo Mosoa	(LM)	DWA: WRPS WQ
Alloisius Salagae	(AS)	DWA: WRPS – E&ES
Rens Botha	(RB)	DWA: North West Region
Barbara Weston	(BW)	DWA: RDM
Lerato Bapela	(LB)	DWA: WRPS
Johan Rossouw	(JDR)	BKS
Hermien Pieterse	(HSP)	BKS
Pieter van Rooyen	(PGvR)	WRP
Fanie Vogel	(FV)	Aurecon
<i>Surene Whiteman</i>	<i>(SW)</i>	<i>BKS</i>

#### 2.2 APOLOGIES

Ockie van den Berg	(OvdB)	DWA: OA
Koena Moabelo	(KM)	DWA: WUE
Smangele Mgquba	(S)	DWA: Climate Change
Hannes Pretorius	(HP)	DWA: Infrastructure Branch
Bernie Badenhorst	(BB)	DWA: Limpopo Region
Martha Komape	(MK)	DWA: Limpopo Region
<i>Joyce (Phapelo) Machaba</i>	<i>(JPM)</i>	<i>DWA: RDM</i>

### ACTION

	<i>Trevor Coleman</i>	(TC)	<i>Golder</i>	
<b>2.3</b>	<b>ABSENT</b>			
	Chabedi Tsatsi	(CT)	DWA: WUE	
	<i>Steven Shibambu</i>	(CS)	<i>DWA: Limpopo</i>	
	* Non-permanent members are indicated in <i>italic &amp; bold</i> .			
	SMT members were requested to indicate their parking requirements when accepting the invitation for future meetings.			ALL
<b>3.</b>	<b>APPROVAL OF THE AGENDA</b>			
	The Agenda was approved subjected to the correction of the date in the heading of Item 4) of the previous meeting.			
<b>4.</b>	<b>MINUTES OF PREVIOUS MEETING</b>			
<b>4.1</b>	<b>APPROVAL</b>			
	The minutes of the previous meeting was approved with correcting the date in the header of Item 4.			
<b>4.2</b>	<b>MATTERS ARISING (NOT DISCUSSED IN THE ITEMS BELOW)</b>			
<b>4.2.1</b>	<b>Item 4.2.1: PGvR to monitor progress on the methodology to be used to establish the impact of the removal of alien vegetation</b>			
(a)	PGvR reported that a meeting was held on the methodology, attended by JA van Rooyen, B Haasbroek, S Mallory, A Görgens and PG van Rooyen. The research done by the University of Natal was also considered. Request was forwarded to B Mwaka to finance further studies. Document (on methodology to be followed) will be compiled by B Haasbroek, S Mallory, A Görgens and PG van Rooyen, and discussed with Working for Water.			
(b)	Olifants and Crocodile West catchments have been identified where the methodology will be tested as pilot studies.			
<b>4.2.2</b>	<b>Item 4.2.3: Crocodile West Reconciliation strategy to be presented at Limpopo Environmental Action Forum (LEAF)</b>			
	OvdB reported that the next LEAF meeting will probably held in January 2011. He will confirm whether a presentation on the Strategy is required.			OvdB
<b>5.</b>	<b>TASK 1: INCEPTION PHASE</b>			
	The revised Inception Report was submitted to DWA, approved and signed. Electronic copies will be distributed by e-mail to SMT members.			SW

**6. RECURRING TASKS**

**6.1 TASK 2: PROJECT MANAGEMENT – WORK PROGRAMME**

An updated work programme is included in the Inception Report. Tasks are progress according to the programme.

**6.2 TASK 3: LIAISON AND INFORMATION DISSEMINATION**

A newsletter (leaflet) plus progress report (with text, graphics etc. according to the Western Cape study example), will be prepared and distributed.

HSP/AL

**6.3 TASK 4: STAKEHOLDER ENGAGEMENT AND ADMINISTRATION**

**6.3.1 Matters arising from previous meeting**

- (a) **Item 6.3.2(a):** the Minutes of first SSC was completed and distributed to the SSC Members.
- (b) **Item 6.3.2(b):** A newsletter with background information and progress will be drafted, also refer to **Item 6.2** above.

**6.3.2 Progress**

- (a) The next SSC Meeting will be held on 24 February 2011 in Pretoria.
- (b) TN requested that the Botswana's Department of Water Affairs representative be invited, to be informed on the Crocodile West Strategy. However, international matters/agreements will not be discussed at this meeting.

HSP/AL

TN

**7. TECHNICAL TASKS**

**7.1 TASK 5: WATER QUALITY MODEL**

- (a) The revised groundwater algorithms need to be finalised and implemented, if acceptable.
- (b) The patching of the calibration data for the Hartbeespoort Dam Catchment is complete. The patching for the Apies Pienaars River system is complete.
- (c) PGvR reported on the problems experience with the acquisition of water quality data from Rand Water. The data has been compiled by Rand Water, but will be made available at a cost of R48 000. Francois van Wyk of Rand Water has been approached to intervene so that the data can be supplied at no cost or a more reasonable fee.
- (d) The PSP is slightly behind with quality calibration, but more effort will be made during December 2010 to catch up with the programme.
- (e) BW requested the water quality objectives from LM.

PGvR

PGvR/TC

LM/BW

- (f) FV reported that although Phase 2 of the MCWAP might be delayed, the water quality at Vlieëport abstraction point must be known.

## 7.2 TASK 6: WATER RESOURCES PLANNING MODEL

### 7.2.1 Matters arising from previous meeting

**Item 7.2 (a):** PGvR reported that problems experience with the WRPM is now solved, the model is running and simulating the catchment in terms of quantities.

### 7.2.2 Progress

- (a) The demand centres (which represents areas supplied from Rand Water) methodology have been sorted out. BKS are in the verification process.
- (b) PGvR also reported that the curtailment algorithm can now be done on a separate sub-system.
- (c) Once the water quality calibration has been completed, the output of the WQT model will be included as input to the WRPM in early 2011, then tested and verified.

TC

## 7.3 TASK 7: DEVELOPING OF OPERATING RULES

- (a) No progress on this task. The current known operating rules will be included in the WRPM.

## 7.4 TASK 9: RECONCILIATION STRATEGY REPORT UPDATE

### 7.4.1 Matters arising from previous meeting

- (a) **Item 7.5.1(c):** A discussion was held with A Wensley on 1 November 2010 on future water requirements, also from other catchments. WSDP reports were subsequently received from A Wensley. The updated information will be included in the updated WRPM.
- (b) **Item 7.5.1(d):** JDR requested information from BW on new mining applications, although no feedback received to date. BW reported that RDM received a number of applications for quarries, platinum mines, municipalities, farm dams, etc. She are concerned that licenses are being hastily issued by the Regional Offices according to the LETSIMA process without considering all factors.
- (c) **Item 7.5.2(a):** The Water balance presentation was emailed to OvdB.
- (d) **Item 7.5.2(b):** The groundwater information obtained from the All Towns Study should be summarised per catchment and compared with current assumptions.
- (e) **Item 7.5.2(c):** The report from PDNA (Abrie Vermeulen) on the planned pipeline from Klipvoor Dam to Modimole was obtained and assessed. It is noted that some sensitive wetlands upstream of Klipvoor Dam is impacting on the pipeline route. It is proposed that abstraction should rather be from Roodeplaat Dam.

JDR/BW

PGvR

JDR

#### 7.4.2 Progress

- (a) The latest water balance (current MCWAP scenarios) shows that a small volume of 13 million m<sup>3</sup>/a would be required to be transferred from the Vaal WWTW to the Crocodile to augment shortages. Subsequently Sasol indicate a delay of at least one year in their future Mafuta project. Therefore augmentation from the Vaal may not be required at all.
- (b) FV confirmed that Eskom currently do not plan further developments beyond the existing developments. However, some mining developments in the Lepalale area may be developed, requiring augmentation to the area at a later stage.
- (c) The implementation of the Reserve in the Mokolo Catchment, may also augmentation from the Crocodile. BW will clarify the situation.
- (d) PGvR noted that the MCWAP initially was 200 million m<sup>3</sup>/a, reduced to 110 million m<sup>3</sup>/a. The latest demand projections must be requested from Eskom and Sasol via OvdB.
- (e) This will be included in an updated water balance to be presented to the SSC Meeting in February 2011.
- (f) PGvR proposed to do a workshop on the WRPM, specifically regarding curtailments and risk. FV will arrange such a session through the Mokolo Agricultural Forum.

BW

PGvR/OvdB

JDR

FV/OvdB

#### 7.5 TASK 10: SUPPORT GROUP (SG) SUPPORT

No feedback.

#### 8. ADDITIONAL TASKS

##### 8.1 TASK 11: TASKS REQUESTED BY JOHAN VAN ROOYEN

###### 8.1.1 Marginal cost of water

**Item 8.1.1:** The final Report was approved by DWA and is available on the DWA website. It was also widely distributed to people such as Mr Mike Muller (previous DG of DWA) and the World Bank. This task to be removed from future agendas.

HSP

###### 8.1.2 Water Security

No comments were received on the draft report that was submitted to DWA.

##### 8.2 TASK 13: SUPPORT TO MCWAP

**Item 8.3:** This task has been completed. FV gave feedback to OvdB, but no comments were forwarded to the Study Team.

OvdB

**9. GENERAL**

**9.1 CROCODILE WEST ANNUAL OPERATING ANALYSIS STUDY**

LB gave update on the parallel study is procured. Currently awaiting a decision by the DBC.

LB

**10. NEXT MEETING**

(a) The next SMT Meeting is scheduled for 11 February 2011 at 08:00 at BKS. This will be preceded by the PMM.

All

(b) The SSC dry-run will be held on 11 February 2011 at 10:00 at BKS.

HSP/AL

**11. CLOSURE**

The meeting was closed at 11:30.

*Minutes certified as correct and final*

  
PSP Study Leader      2011-02-11  
Date

  
DWA Study Leader      11/02/2011  
Date