



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. 12 held at 10:00 on 14 May 2012, BKS Pretoria

ACTION

1. WELCOME AND CONSTITUTION OF THE MEETING

The Chairperson, Mr Tendani Nditwani, opened the meeting.

2. ATTENDANCE AND APOLOGIES

2.1 ATTENDANCE

An attendance register was circulated, as noted below:

Tendani Nditwani	(TN)	DWA: NWRP
Witold Jezewski	(WJ)	DWA: NWRP
Ockie van den Berg	(OvdB)	DWA: OA
Rens Botha	(RB)	DWA: North West Region
Celiwe Ntuli	(LB)	DWA: WRPS
Steven Shibambu	(SS)	DWA: Limpopo
Johan Rossouw	(JDR)	BKS
Jonathan Schroder	(JHS)	BKS
Pieter van Rooyen	(PvR)	WRP
André Joubert	(AJ)	Zitholele
<i>Trevor Coleman</i>	<i>(TC)</i>	<i>Golder</i>

2.2 APOLOGIES

Bernie Badenhorst	(BB)	DWA: Limpopo Region
Martha Komape	(MK)	DWA: Limpopo Region
Alloycius Salagae	(AS)	DWA: WRPS – E&ES
Lebo Mosoa	(LM)	DWA: WRPS WQ
Dennis Behrmann	(DB)	DWA: WS : P&I
Hermien Pieterse	(HSP)	BKS

2.3 ABSENT

Hannes Pretorius	(HP)	DWA: Infrastructure Branch
Barbara Weston	(BW)	DWA: RDM
Tsholofelo Mbotho	(TM)	DWA: WRPS
Koena Moabelo	(KM)	DWA: WUE
Thokozani Ntuli	(ThN)	DWA: Water Ecosystems - groundwater
Smangele Mgquba	(SM)	DWA: Climate Change
Allestair Wensley	(AW)	DWA: Water Services

* Non-permanent members are indicated in **italic & bold**.

3. APPROVAL OF THE AGENDA

The Agenda was approved, with the following additions:

- ❑ Item 7.2: Classification of significant water resources in the Mokolo-Matlabas catchment and the Crocodile West and Marico Water management Area
- ❑ Item 7.3: Bojanala Study
- ❑ Item 7.4: Validation and Verification of water use in the Crocodile West River system
- ❑ Item 7.5: Hydropower assessment at Hartbeespoort Dam
- ❑ Item 7.6: Waste discharge charge system

4. MINUTES OF PREVIOUS MEETING

4.1 APPROVAL

- (a) The Minutes of the Project Management meeting of 14 May 2012 was approved with one change. Item 8.1 (d) on page 6 should read: Rens Botha mentioned that up to 110 l/s can be abstracted at a property without a license, *only outside Government Control Areas*.

4.2 MATTERS ARISING (NOT DISCUSSED IN THE ITEMS BELOW)

- (a) No discussion.

5. RECURRING TASKS

5.1 TASK 2: PROJECT MANAGEMENT

5.1.1 Matters arising from previous meeting

- (a) **Item 5.1.2(b): Possibility of another SSC Meeting.** Another SSC Meeting will be held. A provisional date is 25 July 2012.

5.1.2 Progress

- (a) Another SSC Meeting will be held. A provisional date is 25 July 2012, to be confirmed by TN after confirming availability of Messrs Solly Mabuda and Johan van Rooyen. TN
- (b) Once the date of the meeting has been agreed AJ should send out a meeting invite and make the necessary arrangements for preferably the same venue as where the previous SSC Meeting was held. AJ
- (c) Activities to be completed before the next SSC Meeting include the finalisation of the setting up and testing of the WRPM as well as the WRPM scenario analyses. The WRPM Report and the Reconciliation Strategy: Version 2 Report can be completed later

- (d) PvR reported that the request for code changes to the WRPM, to make the required adjustments to model the water quality in the groundwater aquifers in the Lower Crocodile sub-catchment, was approved.
- (e) New unconfirmed water requirement figures for the Lephalale area have been received and this will be finalised for approval by DWA before using that to determine the updated water balances in the Crocodile River system. JDR requested that the Lephalale water requirements be finalised and approved by DWA so that there is only one set of requirements to be used when finalising the WRPM scenario analyses and the Reconciliation Strategy Version 2 Report.
- (f) A SSC dry run meeting should be held before the next SSC Meeting, a date to still be confirmed.

OvdB/JHS

TN/JDR

5.2 TASK 3: LIAISON AND INFORMATION DISSEMINATION

5.2.1 Progress

- (a) No activities to report on.

5.3 TASK 4: STAKEHOLDER ENGAGEMENT AND ADMINISTRATION

5.3.1 Matters arising from previous meeting

- (a) **Item 5.3.1(a): André Joubert to be invited to the next SMT Meeting.** Done.

5.3.2 Progress

- (a) The study team should send out invitations to the SSC Members for the next SSC Meeting once TN has confirmed the date of the meeting.

TN/AJ

6. TECHNICAL TASKS

6.1 TASK 5: WATER QUALITY MODEL

6.1.1 Matters arising

- (a) **Item 6.1.1(a): JDR to send a copy of the difference in water quality sampling between RSA and Botswana to Trevor Coleman.** Done.
- (b) **Item 6.1.2(b): Outstanding three demand centres' information to be sent to Jonathan Schroder.** Done, received from TC.
- (c) **Item 6.1.2(c): Draft Water Quality Calibration Report to be submitted to DWA for comments/approval.** Done, TC submitted hard copy and electronic copy to DWA for comments/approval.
- (d) **Item 6.1.2(d): Trevor Coleman to supply water quality data to Lebo Mosoa.** Outstanding.

TN

TC

6.1.2 Progress

- (a) No other activities (than covered under Item 6.1.1 above) to report on.

6.2 TASK 6: WATER RESOURCES PLANNING MODEL

6.2.1 Matters arising

- (a) **Item 6.2.1(a): Tshwane's latest BWMP is still outstanding.** The study team received updated water requirements from Tshwane, but the BWMP is still outstanding. The BWMP will include the updated figures of Nokeng Tsa Taemane, which have recently been incorporated in the Tshwane Metro. The latest water requirements of Tshwane are lower than their previous figures. JHS to follow up and update water requirements for inclusion in the WRPM and Reconciliation Strategy, if required.
- (b) **Item 6.2.2(b): Some code changes to the WRPM are required and need to be approved by B Mwaka from DWA.** Done.

JHS

6.2.2 Progress

- (a) PvR reported that Tshwane's latest water conservation and demand management efforts resulted in better than expected savings. The study team will, however, use the previous forecasts.

6.3 TASK 7: DEVELOPING OF OPERATING RULES

6.3.1 Matters arising

- (a) **Item 6.3.2(a): Obtain report on river losses in the system that was done by G Basson as part of MCWAP.** Received, however, additional irrigation areas were included in the analyses (while the MOCWS study team did not allow for any increase in irrigation water requirements. There was also no new information about the river losses that could be of value, and the study team will therefore use the existing information included in the WRPM in the scenario analyses.

6.3.2 Progress

- (a) CN and RB should, as part of the *Crocodile West Annual Operating Analysis (CWAOA) Study*, arrange a meeting with the Regional Office and the Infrastructure Branch to discuss the operation of the canal and Vaalkop Dam. The to-be-confirmed System Operating Forum (SOF) of the CWAOA study, as well as the members thereof, needs to be addressed at that meeting.

CN/RB

6.4 TASK 9: RECONCILIATION STRATEGY REPORT UPDATE

6.4.1 Matters arising

- (a) **Item 6.4.1(a): Request for volumes associated with licence applications.** Rens Botha indicated that he would obtain the requested information from the Regional Office at Hartbeespoort dam and forward it to the Study Team.
- (b) **Item 6.4.2(a): Table of contents for Reconciliation Strategy Report (Version 2).** Done, JDR sent the table of contents to TN. The study team will now compile the Reconciliation Strategy report according to the submitted outline.

RB

6.4.2 Progress

- (a) RB mentioned that with the previous possible Hartbeespoort-Rustenburg water supply scheme not receiving the earlier attention, there should be a renewed focus on the Roodekopjes-Vaalkop system and the transfer canal between the two dams.
- (b) RB also mentioned about a mine that wants to re-use treated effluent from the Brits wastewater works. Also see Item 7.3 (b) to confirm the proposed figures to be used.

RB/JHS

6.5 TASK 10: SUPPORT GROUP (SG) SUPPORT

No activities, no discussion.

7. COORDINATION WITH OTHER STUDIES

7.1 MOKOLO-CROCODILE WATER AUGMENTATION PROJECT

- (a) OvdB mentioned that the Contractor for Phase 1 of the project is on site.
- (b) Eskom had discussions with DWA and could require additional water than the current projected figures.
- (c) There is a possibility that additional coal could be exported to the Mpumalanga power stations.
- (d) Phase 3 of MCWAP (River Management Plan) will probably not be required, and Phase 2 (transfer of water from the Crocodile River to the Lephalale area) could be followed directly by Phase 4 (additional transfer of water from the Vaal River).
- (e) The current unofficial water requirement figures will be updated with official figures to be used in the WRPM scenario analyses and the Reconciliation Strategy.

7.2 CLASSIFICATION OF SIGNIFICANT WATER RESOURCES IN THE MOKOLO-MATLABAS CATCHMENT AND THE CROCODILE WEST AND MARICO WATER MANAGEMENT AREA

- (a) This study has started and had its first PSC Meeting.

7.3 CONSOLIDATION OF FEASIBILITY STUDIES FOR THE BOJANALA DISTRICT MUNICIPALITY IN THE NORTH WEST PROVINCE INTO A BULK WATER MASTER PLAN

- (a) Detail spreadsheets from the MOCWS were forwarded to UWP (the PSP for the Bojanala Study). Some feedback was received from UWP with regard to difference in water requirements. The differences were clarified and final figures were agreed on.
- (b) OvdB mentioned that UWP reported that poor figures were obtained from the Municipalities. Good updated information about mining water requirements and projections was received from the Joint Water Forum. The MOCWS study team will liaise with UWP to obtain the updated figures.
- (c) TN mentioned about information received from mining users (at Tuschenkomst) in the area north of the Pilanesberg (in the Bierspruit catchment) who stopped mining activities and now want to store water there for domestic and irrigation supply. TN will send detail and figures to the study team for their interpretation and comments.

TN

7.4 VALIDATION AND VERIFICATION OF WATER USE IN THE CROCODILE WEST RIVER SYSTEM

- (a) The PSP was appointed and is awaiting approval of their proposed rates. This will be a 3-year contract.

7.5 HYDROPOWER ASSESSMENT AT HARTBESPOORT DAM

- (a) Some work was done by the study team to support A Otterman with indications of hydro power potential at Hartbeespoort Dam.

7.6 WASTE DISCHARGE CHARGE SYSTEM

- (a) This study will commence soon.

8. GENERAL

No activities, no discussion.

9. NEXT MEETING

- (a) The next SMT Meeting is scheduled for 2 July 2012 at 10:00 at BKS. This will be preceded by the PMM at 09:30.

10. CLOSURE

The meeting was closed at 12:20.

Minutes certified as correct and final

PSP Study Leader

Date

DWA Project Leader

Date