

Water affairs Department: Water Affairs REPUBLIC OF SOUTH AFRICA



### SUPPORT TO THE CONTINUATION OF THE WATER RECONCILIATION STRATEGY FOR THE WESTERN CAPE WATER SUPPLY SYSTEM

### ADMINISTRATIVE AND TECHNICAL SUPPORT GROUP MEETING #3

DATE: 4 FEBRUARY 2014

UMVOTO

Тіме: 08н30 – 12н30

- VENUE: WORLEYPARSONS, BELLVILLE BOARDROOM
- CHAIR: ISA THOMPSON, DWA D:NWRP

#### **ATTENDEES:**

NAME		AFFILIATION	
Isa Thompson	IT	DWA D:NWRP	Study Manager
Fanus Fourie	FF	DWA D:WRPS	Groundwater
Anneke Schreuder	ASch	DWA RO Bellville	Berg WMA
Mike Smart	MS	DWA RO Bellville	Hydrogeology
Bertrand van Zyl	BvZ	DWA D:NWRI	
Zolile Basholo	ZB	City of Cape Town	WC/WDM
Collin Mubadiro	СМ	City of Cape Town	WC/WDM
Bayanda Zenzile	BZ	DWA RO Bellville	
Paul Rhode	PR	City of Cape Town	Bulk Water
Mogamat Shahied Solomon	MSS	City of Cape Town	WC/WDM
Rowena Hay	RH	Umvoto Africa	Study Director
Kornelius Riemann	KR	Umvoto Africa	Study Leader
Jaco Human	JH	Worley Parsons	Team Leader
Gerrit van Zyl	GvZ	Consultant	PSP team member

### **APOLOGIES:**

NAME		AFFILIATION	
Jenny Pashkin	JP	DWA D:WRPS	Systems Operation
Pieter Viljoen	PV	DWA D: WRPS	Water Quality
Derril Daniels	DD	DWA RO Bellville	Berg WMA
Wilna Kloppers	WK	DWA RO Bellville	Resource Protection
Penina Sihlali	PS	DWA RO Bellville	RBIG
Jan van Staden	JvS	BOCMA	
Simpiwe Mashicila	SM	DWA RO Bellville	Water Sector Support

# υμνότο

MINUT	INUTES				
<u>ITEM</u>	DETAIL	ACTION	TIME		
1	Welcome and Introduction				
	IT welcomed everybody to the third ATSG meeting.				
2	Attendance and Apologies				
2.1	Attendance and Apologies				
	The attendance at the meeting, as listed above, was noted in the attendance register. Apologies were noted (see above).				
3	Minutes of ATSG #2				
3.1	The minutes of the ATSG meeting #2 of 5 September 2013 were accepted with the following changes:				
	<ul> <li>Attendance register: Abbreviation for Anneke Schreuder should be ASch throughout the minutes;</li> </ul>				
	- Page 7: correct spelling of Pieter Viljoen's name				
	IT signed the approved minutes. A scanned version of the signed minutes will be made available for the project website.	PSP			
3.2	Matters arising				
	All maters arising from the minutes have been addressed or will be covered under the agenda items.				
4	Technical Support				
4.1	Cape Flats Aquifer Situation Assessment				
	RH presented the findings and recommendations from the Cape Flats Aquifer Situation Assessment, undertaken by Umvoto. Presentation notes are attached to the minutes.				
	The presentation and recommendations were well received. ZB stated that most of the elements should fall under the ambit of the City and that the WC/WDM sub-directorate is willing to coordinate the activities by the City.				
	It was agreed to hold a dedicated workshop to discuss the different				
	elements of the sensitive development and management of the Cape Flats Aquifer by early March 2014.	PSP / ZB			
	Roleplayers to be involved in the longer-term programme include:				
	City of Cape Town – Stormwater Management				
	City of Cape Town – Catchment Management				
	Working for Wetlands				
	<ul><li>DEA&amp;DP</li><li>BRIP</li></ul>				
	Berg CMA				
	• Bry Cha BvZ suggested including the organised farmers in the workshop.				
	Some Phillipi Farmers moved to Joostenbergvlakte for security and water quality reasons. There is competition for use due to declining water levels. Groundwater abstraction also results in drying out of wetlands.				
	FF stated that the aquifer stratification needs to be considered. CCT should also follow other municipalities in using poorer groundwater quality for industrial usage.				

<u>ITEM</u>	DETAIL	ACTION	<u>TIME</u>
	IT requested a draft framework of the structure and proposed outcome of the workshop soonest – one page motivation that PR and ZB can take to their directors and motivate for the programme. ZB stated that he will report to the portfolio committee after the first workshop, once clarity is reached on what must be done by when and by whom.	PSP	
	PR said he would be wary of political involvement now. The first discussion must be technical, but council commitment should be sought early on. PR suggested that an initial first draft of the programme can be discussed with MAYCO for community services and relevant councillors. ZB agreed.		
	IT requested that the current report be completed as soon as possible and submitted to ATSG members for preparation for the workshop. It was agreed that Karen Harrison would facilitate the proposed workshop.	PSP	
5	Progress with current studies: CCT		
5.1	Water Conservation and Water Demand Management		
	ZB reported that the updated WC/WDM Strategy is implemented on an ongoing basis. Some of the initiatives are:		
	Using of springs to offset potable water;		
	Registration of private boreholes;		
	Harvesting of storm water to offset potable water;		
	Using of boreholes or treated effluent for greening of parks and public spaces;		
	Education outreaches;		
	• Roll out of water conservation devices in indigent households;		
	• Targeting industrial and commercial users to reduce their use;		
	Repairs and maintenance of assets, e.g. pipe replacement project;		
	Roll out of providing treated effluent to suitable users.		
	He stated that the roll out of using treated effluent may be affected by the latest GA Regulation (Sept 2013) ito ensuring compliance with effluent quality; e.g. nitrates and phosphates are set very low. The CCT have made comment to DWA and are currently upgrading the WWTW to ensure compliance.		
	He further mentioned that CCT is open to new initiatives as they have good support from the councilors.		
	IT requested that ZB gives a presentation at the SSC meeting on the current progress and programme on WC/WDM illustrating the benefits and support from council.	ZB	Apr 2014
	ZB stated that he is wary of pushing water conservation to the limit of no returns. Those that can use must use so that they can pay more! Their focus is on high users – more used more penalised ito high tariffs is major tool for controlling high end users. If water use becomes too efficient, then there is no leeway for reduction in times of drought.		

ITEM	DETAIL	<b>ACTION</b>	<u>TIME</u>
5.2	Water re-use feasibility study		
	PR reported that good proposals for the water re-use study have been received. The City will recommend the appointment of a PSP to the Bid Committee in March. IT suggested that the appointed PSP should report back at the ATSG meetings. It was also agreed that the Cape Flats Aquifer Situation Assessment Report will become an input to the Aquifer Storage and Recovery (ASR) component of the water re-use study.		
5.3	Desalination feasibility study		
	PR said that Eskom has given permission for a pilot desalination plant to be located at Koeberg. Currently, WorleyParsons updates the final report. It was agreed that PR will provide verbal feedback at the SSC meeting in April. A presentation and full feedback is scheduled for the SSC meeting in October 2014.	PR	Apr 2014
5.4	TMG Aquifer feasibility study		
	PR reported that the City still intends to go forward with the Pilot Phase of the study. Preliminary discussions were held between the CCT and the TMGA Alliance regarding the options for going forward. PR stated that he will meet with the Director Water and Sanitation within February and will give an update of the discussion and decision at the next SSC meeting in April.	PR	Apr 2014
	IT requested that costs and timelines are updated for all relevant projects for the SSC meeting in September latest.	PSP	Sep 2014
	RH noted that public engagement was/is part of the study progress on other studies, but not for the TMGA. Failure to re-initiate the TMGA Study will result in the TMGA being excluded by default, as the adequate and required level of data will not be available.		
5.5	Others		
	PR reported that the tender documentation for the Lourens River have been drafted and will be out shortly. Appointment of a PSP is expected by September. He will provide an update at the September SSC meeting. He noted that the Lourens River Diversion is a long-term option with challenges as it is within an urban catchment. The study is required to have sufficient information on the table for making a decision on this option.		
6	Progress with current studies: DWA		
6.1	Surface water schemes		
	IT reported that the feasibility study is completed and the reports are finalised and available. The Voëlvlei Augmentation Phase 1 scheme came out favourable in the feasibility study. This would bring an additional 23 million m <sup>3</sup> /a to the WC WSS (instead of the 35 million m <sup>3</sup> /a originally envisaged). KR noted that it was anticipated to make the PSP appointment for the EIA in October 2013. IT will ensure that a report is given at the SSC meeting.	IT	Apr 2014
6.2	Langebaan Road Aquifer Artificial Recharge scheme		
	FF stated that the appointment process for this study has changed and that DWA currently investigate the possibility to use the MOU between DWA and the CSIR. He anticipates the study to start in May, if all goes well with the new process. He will provide feedback at the September SSC meeting.	FF	Sep 2014

# υμνότο

<u>ITEM</u>	DETAIL	<b>ACTION</b>	<u>TIME</u>
6.3	Real-time Decision Support System		
	IT said the study is close to completion and a pilot is already underway. The website access will be available shortly. She said that a presentation at the SSC meeting would be needed to show how the DSS is being used, as it is very relevant to the system.	IT	Apr 2014
	BvZ mentioned that the real-time Hydro information is not always working or correct. The user of the data needs to have knowledge and cannot take the data/information at face value for operational decisions; e.g. there are 2 recorders at Misverstand Dam, but the data from Hydro is wrong and the person on the ground cannot read the gauge correctly; so BvZ uses alternative sources of data. He suggested that some Hydro stations need to be operational stations for data and information management and data quality control.	JP	
6.4	Annual Drought Operating Rules		
	IT mentioned that there is no need for restrictions this year as there is still a lot of water in the system this summer. GvZ added that dams will most likely spill earlier this year if good rains are received and that farmers will need to move their pumps before the flooding.		
6.5	Berg River water quality		
	ASch stated that a new report on the Berg River water quality has been completed by end January. Aurecon has done a study of water quality of all industries within 2 km of the Berg River and their potential impact on the Berg River's water quality. All reports are made available on the Water Quality Task Team web site (www.brwqtt.co.za).		
	JH mentioned that the West Coast DM has done a report on the impact of salinity in the Berg River. He will give a copy to ASch so she can get it onto the brwqtt website.	JH / ASH	
	IT mentioned that the current Green Cape study under the auspices of DED&T falls under the BRIP. They want to ensure that there is sufficient water in the supply system to cater for the planned developments at Saldanha around the IDZ and beyond.		
	PR voiced his concern that the Green Cape study, doing an assessment of water resources to the supply area, clashes with the WC WSS Reconciliation Strategy Study. DWA and the CCT have concerns that this study is being duplicated. PR stated it is needed to avoid different recommendations and plans. IT stated that Green Cape is organising a workshop on 24 February to discuss these issues. The Green Cape have asked for a presentation by the DWA, West Coast DM and CCT. It was agreed to give one presentation from the WCWSS Reconciliation Strategy ATSG. IT agreed to give the presentation.	IT	Feb 2014
6.6	Others		
	IT requested input from the members on current relevant WRC studies. The following were mentioned:		
	• K5/2208: An investigation into the social, institutional and economic implications of reusing reclaimed wastewater for domestic application in South Africa		



<u>ITEM</u>	DETAIL	<u>ACTION</u>	<u>TIME</u>
	• K5/2212: Monitoring, management and communication of water quality and public acceptance in the direct reclamation of municipal wastewater for drinking purposes (CCT is involved in this).		
	IT re-iterated the request to all members to provide a list of studies they are involved in.	All	
	IT stated that the approval of moving the urban edge to allow for the proposed WesCape development has implications on required water resources and where bulk water infrastructure is put in. PR added that there are numerous challenges with the proposed development; it is too close to Koeberg and service infrastructure must be put in upfront. The desalination project could support this development.		
	JH reported that a report on the water situation in the Witzenberg LM has been finalized; water balance data are available. He added that water meters are in place in Ceres and other towns.		
	JH reported that personnel changes occurred in the Stellenbosch LM, with a new head of waste water replacing Brett Kayser. WK will give further feedback on the water quality situation. IT requested that the Municipal Manager (Andre van Niekerk) or Technical Director (Dries van Taak) provide feedback on the situation at the SSC meeting.	KR/JH to arrange	
	IT queried where the water for the Kirstenbosch Botanical Garden comes from; there is a dam and springs. GvZ undertook to find out. He then asked whether CCT tests the water and whether the water in bathrooms comes from municipal supply or the springs/dam.	GvZ	
	RH queried the source of water at UCT. How can these varied supply sources be mapped and documented? ZB replied that the CCT has a current project around determining the usage from the various springs.		
	GvZ stated that the half-developed housing schemes along the West Coast will put large pressure on the supply from the WCWSS if they go ahead with development, as they do not need an EIA and are approved by local municipalities. The issue is that water was originally allocated but not taken up, so it starts to look like savings or success of WC/WDM measures.		
	IT mentioned the plan by the West Coast DM to develop a desalination plant in Saldanha for 20 000 indigents associated with IDZ and West Coast development. It is planned in three phases from 8 million m <sup>3</sup> /a up to 25 million m <sup>3</sup> /a. It will cost R500 million, and DM has R80 million; DWA will give only R120 million as original cost estimate was R200 million. The DM is engaging with the private sector for co-funding. If it goes ahead, it will impact on the water balance from the WCWSS.		
7	Communication		
7.1	Progress Report		
	IT requested a short (3-4 pages) progress report on work that has been done in the past 6 months for submission to the SSC. The draft progress report should be submitted to the ATSG for comment within 3 weeks.	PSP	

<u>ITEM</u>	DETAIL	ACTION	<u>TIME</u>
7.2	Media Release		
	IT requested that a draft media release is circulated prior to the SSC meeting. However, the outcomes of the Green Cape workshop and Cape Flats workshop must be included in the media release.	PSP	
7.3	Terms of Reference		
	KR stated that he was tasked to update the terms of reference for the SSC and the ATSG. He handed out a draft and asked for a short discussion on some relevant elements. He explained that the ToR has the same structure as previous TOR, but with updated history and objectives as per current objectives. Based on objectives, activities are broken down. Some suggested changes were highlighted.		
	IT asked that nominated persons for each representative organisation listed for SSC and ATSG be included in the document. It was agreed that KR will send out the current version to the ATSG members for their comments and input.	KR / All	Feb 2014 Mar 2014
	GvZ stated that the time line to get communications approved prior to publication is very slow and that there is a need to consider how to make information available to the general public over and above localised PP in relevant studies. IT replied she considers local people are sensitized to the issues. GvZ suggested that improved communications may assist in getting approvals for implementation sooner and with less difficulty if there is broader communication amongst the wider group of decision makers and lobby groups.		
	GvZ asked whether media releases and success stories can be sent to particular people and groups as there is a need to get success stories into the media. ZB suggested that DWA actively engages with and presents to the relevant portfolio committees in order to ensure easier implementation and that portfolio committees better understand the background and context. This would support the city officials to get implementation and other studies passed.		
	IT suggested that existing vehicles (e.g. WRC studies on re-use) be used to advantage. She commented that she cannot possibly undertake to visit municipalities, and the DWA RO is also over committed. Her concern is not general public but overlap of studies between Province and City and other bodies, e.g. DEA&DP, DED&T.		
	ZB asked that this communication issue is debated at the SSC. It is important to ensure that the output of this study is communicated effectively to all structures. It is his view that DWA must drive any water related issues, but that DWA no longer has an overview of all studies and this matter needs to be discussed at next SSC. IT asked that GvZ and ZB meet to formalise suggestion for structured discussion at the coming SSC meeting. IT further indicated they only know about studies if they are invited to attend the meetings and or asked for information. She suggested that Aisha Petersen is the person from DWA RO to involve in this discussion.	GvZ, ZB	Mar 2014
	ZB indicated that the GAs (gazetted in November) and national policy were approved by Cabinet end 2013 but were not on DWA website. He also advised that the National Framework for WSDPs has lapsed in December 2013. IT undertook to follow up on these issues and give feedback to ZB.	IT	

4 February 2014

ITEM	DETAIL	ACTION	TIME
	ZB added that he would need communication from DWA that the outdated Framework be formally extended. JH suggested that he refers to the Water Services Act which informs the legality of the WSDP. However, the WSA does not cover in detail the interface with the IDP whereas the Framework did do this, and this allowed officials to insist on portfolio committees (Politicians) doing what is required in terms of the law.		
	IT said that the National Water Act and Water Services Act are being reviewed and consideration be given to combine them into one. This would cut out duplication and resolve grey issues that exist within and between the two.		
	PR stated that the Water Sustainability Action Plan, driven by DEA&DP, is gaining momentum. ZB suggested that DEA&DP does not have the competencies for water and that DWA is not on board. IT responded that DWA are doing good work but that DWA was pulled out of this process by R Kahn at one stage. They are however again involved. She agreed that much stronger input from		
8	DWA is however needed.		
0	Next meeting of ATSG and Closure The date for the next SSC meeting was confirmed as:		
	<ul> <li>9 April 2014</li> </ul>		
	The next meeting of the ATSG was provisionally set for the 6 <sup>th</sup> or 7 <sup>th</sup> of May 2014. Week of 12 <sup>th</sup> May was also considered. Date will be confirmed	PSP	
	IT closed the meeting at 12:30 for a light finger lunch.		

#### SIGNATURE ORIGINATOR

Umvoto Africa

19 May 2014

Date

#### SIGNATURE DEPARTMENT OF WATER AFFAIRS

D: NWRP

19 May 2014 Date

#### **DISTRIBUTION LIST:**

NAME		AFFILIATION	
Isa Thompson	IT	DWA D:NWRP	Study Manager
Fanus Fourie	FF	DWA D:WRPS	Groundwater
Pieter Viljoen	PV	DWA D:WRPS	Water Quality
Jenny Pashkin	JP	DWA D:WRPS	Systems Operation
Nosipho Sombane	NS	DWA D:WUE	
Simpiwe Mashicila	SM	DWA RO Bellville	Water Sector Support
Penina Sihlali	PS	DWA RO Bellville	RBIG
Anneke Schreuder	ASch	DWA RO Bellville	Berg WMA
Derril Daniels	DD	DWA RO Bellville	Berg WMA
Wilna Kloppers	WK	DWA RO Bellville	Resource Protection
Mike Smart	MS	DWA RO Bellville	
Nicolette Vermaak	NV	DWA RO Bellville	
Bertrand van Zyl	BvZ	DWA D:NWRI	
Jan van Staden	JvS	восма	
Catherine Bill	СВ	DEA&DP	
Barry Wood	BW	City of Cape Town	Bulk Water
Paul Rhode	PR	City of Cape Town	Bulk Water
Peter Flower	PF	City of Cape Town	Bulk Water
Zolile Basholo	ZB	City of Cape Town	WC/WDM
Collin Mubadiro	СМ	City of Cape Town	WC/WDM
Mogamat Shahied Solomon	MSS	City of Cape Town	WC/WDM
Rowena Hay	RH	Umvoto Africa	Study Director
Kornelius Riemann	KR	Umvoto Africa	Study Leader
Jaco Human	JH	Worley Parsons	Team Leader
Gerrit van Zyl	GvZ	Consultant	

#### **A**TTACHMENTS:

- Presentation Notes