



## MINUTES OF MEETING

**Algoa Reconciliation Strategy: Administrative and Technical Support Group Meeting No 5,  
held on 18 October 2012 at the offices of Aurecon, Port Elizabeth**

Item		Action																																																																																				
1.	<b>WELCOME</b>  The chairperson, Ms Isa Thompson welcomed everybody to the meeting.																																																																																					
2.	<b>ATTENDANCE AND APOLOGIES</b>  <b>Attendance</b> <table><tr><td>Ms Isa Thompson</td><td>DWA: NWRP (S)</td><td>IT</td></tr><tr><td>Mr Dewald Coetzee</td><td>DWA: NWRI: Southern Operations</td><td>DC</td></tr><tr><td>Ms Jenny Pashkin</td><td>DWA: WRPS</td><td>JP</td></tr><tr><td>Mr Pierre Joubert</td><td>Gamtoos IB</td><td>PJ</td></tr><tr><td>Ms Rienette Colesky</td><td>Gamtoos IB</td><td>RC</td></tr><tr><td>Mr Stephen Mullineux</td><td>DWA: DCE: Water Use Regulation</td><td>SM</td></tr><tr><td>Mr Martin Labuschagne</td><td>DWA: ECRO: WR&amp;U-WUE</td><td>ML</td></tr><tr><td>Mr Stan Groenewald</td><td>NMBM</td><td>SG</td></tr><tr><td>Mr Stuart Fergusson</td><td>NMBM</td><td>SF</td></tr><tr><td>Mr Pieter Retief</td><td>DWA: NWRI: Southern Operations</td><td>PR</td></tr><tr><td>Mr Willie Olivier</td><td>Coega IDZ</td><td>WO</td></tr><tr><td>Mr Dup van Reenen</td><td>AfriCoast Engineers SA</td><td>DvR</td></tr><tr><td>Ms Reina Zastron</td><td>Aurecon</td><td>RZ</td></tr><tr><td>Mr Willem Wegelin</td><td>WRP</td><td>WW</td></tr><tr><td>Mr Paul Herbst</td><td>D:WUE (DWA)</td><td>PH</td></tr></table> <b>Apologies</b> <table><tr><td>Ms Siziwe Blie</td><td>DWA: DD:IE</td><td>SB</td></tr><tr><td>Mr Theo Geldenhuys</td><td>DWA: CE: Water Resources Management</td><td>TG</td></tr><tr><td>Mr Menard Mugumo</td><td>DWA: OA (S)</td><td>MM</td></tr><tr><td>Mr Elias Nel</td><td>DWA: WRPS</td><td></td></tr><tr><td>Mr Graham Taylor</td><td>Coega IDZ</td><td>GT</td></tr><tr><td>Mr Paul du Plessis</td><td>NMBM</td><td>PdP</td></tr><tr><td>Mr Piet Snyman</td><td>Cacadu DM</td><td>PS</td></tr><tr><td>Ms Celiwe Ntuli</td><td>DWA: WRPS</td><td></td></tr><tr><td>Mr Pieter Viljoen</td><td>DWA: WRPS</td><td></td></tr><tr><td>Mr Nick Chapman</td><td>VWSA</td><td>NC</td></tr><tr><td>Mr Fanus Fourie</td><td>D:WRPS</td><td>FF</td></tr><tr><td>Mr Erik van der Berg</td><td>Aurecon</td><td>EvdB</td></tr><tr><td>Mr Jeff Govender</td><td>DEAET</td><td>JG</td></tr></table>	Ms Isa Thompson	DWA: NWRP (S)	IT	Mr Dewald Coetzee	DWA: NWRI: Southern Operations	DC	Ms Jenny Pashkin	DWA: WRPS	JP	Mr Pierre Joubert	Gamtoos IB	PJ	Ms Rienette Colesky	Gamtoos IB	RC	Mr Stephen Mullineux	DWA: DCE: Water Use Regulation	SM	Mr Martin Labuschagne	DWA: ECRO: WR&U-WUE	ML	Mr Stan Groenewald	NMBM	SG	Mr Stuart Fergusson	NMBM	SF	Mr Pieter Retief	DWA: NWRI: Southern Operations	PR	Mr Willie Olivier	Coega IDZ	WO	Mr Dup van Reenen	AfriCoast Engineers SA	DvR	Ms Reina Zastron	Aurecon	RZ	Mr Willem Wegelin	WRP	WW	Mr Paul Herbst	D:WUE (DWA)	PH	Ms Siziwe Blie	DWA: DD:IE	SB	Mr Theo Geldenhuys	DWA: CE: Water Resources Management	TG	Mr Menard Mugumo	DWA: OA (S)	MM	Mr Elias Nel	DWA: WRPS		Mr Graham Taylor	Coega IDZ	GT	Mr Paul du Plessis	NMBM	PdP	Mr Piet Snyman	Cacadu DM	PS	Ms Celiwe Ntuli	DWA: WRPS		Mr Pieter Viljoen	DWA: WRPS		Mr Nick Chapman	VWSA	NC	Mr Fanus Fourie	D:WRPS	FF	Mr Erik van der Berg	Aurecon	EvdB	Mr Jeff Govender	DEAET	JG	
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3.	<b>ADOPTION OF AGENDA</b> No changes were made to the agenda	
4.	<b>APPROVAL OF PREVIOUS MINUTES</b> The minutes of the meeting held on 16 August 2012 was adopted with the following correction: P5 11.2: 'DvR will follow up with SRK ....' To be replaced with 'DvR will follow up with BKS...' SG indicated that information minuted under 9.1 on p5 is not correct as the information presented at the previous meeting was not correct. He would present the updated information during the current meeting.	
5	<b>RELEVANT PROJECTS &amp; INITIATIVES UNDERTAKEN BY OTHER RESPONSIBLE ENTITIES</b>	
5.1	<b>Annual Operating rules</b> Nothing has changed since the previous meeting. As soon as the report on the operating rules has been signed off, it will be distributed to the members.	JP/RZ
5.2	<b>Establishment of upper Kouga/Kromme Irrigators WUA</b> As SB is not present at the meeting, no update of the situation has been presented.	
5.3	<b>Verification and validation of water use study of a part of the Kromme and Kouga catchment areas</b> The tender was advertised and has closed on 25 September 2012. The tender is currently being adjudicated.	
5.4	<b>Algoa Bridging Study</b> The Algoa Bridging study was completed and final signoff from the Chief Director, Solly Maduba is awaited. IT will distribute the final report to the members after signoff.	IT
5.5	<b>South African Revenue Protection Group</b> The next meeting will take place on 9 November 2012. ML will attend the meeting and will report back at the next meeting	ML
5.6	<b>Integrated Catchment Management</b> IT mentioned that a meeting was held between all roll-players in the catchment area to discuss all the activities and to accomplish cohesion between the parties. Another meeting will be held in 6 months' time.	
5.7	<b>Orange River Reconciliation Strategy</b> JP reported that it seems that the Orange-Vaal system could be at the beginning of a drought in which case water to the Algoa system could be restricted. She indicated that the NMBM must be prepared for either restricted use or severe restrictions. SG asked for sufficient warning. JP would always give available information to NMBM. DC is also attending the meetings and will also have the latest information available.	JP/DC

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<p><b>6</b></p> <p><b>6.1</b></p> <p><b>6.2</b></p> <p><b>6.3</b></p>	<p><b>OPERATIONAL EFFICIENCY</b></p> <p><b>Darlington Dam Operating capacity and dam safety rehabilitation programme</b></p> <p>DC indicated that there has been no further progress. He said that the raising of the dam is still on the cards, but it is a long term project. The operating rules will be addressed when more water will be in the dam after the rehabilitation. DC also said that there must be a balance between water quality and wasting of water.</p> <p><b>Additional balancing storage in the LSRGWS</b></p> <p>Nothing to report. DC said that the metro should also look at means of additional storage.</p> <p><b>Orange-Fish-Sundays Real-time System</b></p> <p>Pieter Retief presented the real-time OFS system running from the NWRI: Southern Operations office. The goal of the system is to continue using the framework to improve water distribution, maintain acceptable water quality and minimise wastage. The system consists of Web based dashboards for information dissemination. It ensures good communication on a weekly and daily basis between different DWA operational staff as well as between DWA and WUAs. It is being run by DWA staff off DWA IT infrastructure.</p> <p>Members can access the system via the following links: <a href="http://www.ofs-rt.co.za">www.ofs-rt.co.za</a> or <a href="http://www6.dwa.gov.za/ofsr/">http://www6.dwa.gov.za/ofsr/</a></p> <p>DC reported that the system took 10 years to develop at a cost of approx. R10 million. Any comments from members will be appreciated.</p>	<p>NMBM</p> <p>Team</p>
<p><b>7</b></p> <p><b>7.1</b></p> <p><b>7.2</b></p>	<p><b>WATER REQUIREMENTS AND USE</b></p> <p><b>Coega IDZ water requirements</b></p> <p>WO indicated that there is no change to the requirements as previously reported.</p> <p><b>Kouga LM water requirements</b></p> <p>ML reported that the current project is nearing completion. Money is now needed to implement the various initiatives. Info regarding groundwater will be given to Kouga LM (as well as to Piet Snyman) by the Metro. IT requested the Metro and Amatola Water Board to give Kouga LM as much support as possible to ensure that they run their system properly and to avoid water wastage.</p>	<p>NMBM</p>
<p><b>8</b></p> <p><b>8.1</b></p>	<p><b>IMPROVING THE CONFIDENCE OF WATER AVAILABILITY</b></p> <p><b>Proposed water availability assessment study – Kouga-Loerie and Churchill-Impofu</b></p> <p>No progress. Verified and validated water use information from the study for the Kouga Dam catchment, as reported under point 5.3, is needed for this study.</p>	
<p><b>9</b></p> <p><b>9.1</b></p>	<p><b>WC/WDM</b></p> <p><b>Report by NMBM</b></p> <p>The reconciliation strategy set the NMBM a target to reduce water losses by 37 MI/day over a 5 year period. SG did a presentation of the latest figures regarding water losses. The values reported at the previous meeting have been revised. The Real water loss reduction from 2010/11 to 2011/12 is 10,1 MI/day which is calculated to a saving of R 24 334 000. The Real water loss reduction from 2009/10 to 2010/11 is 12,5 MI/day or a saving of R 26 640 000. This means that the losses for 2 years have been reduced by 22.6MI/day which amounts to 61% of the target for 5 years.</p>	

Item		Action
9.2	<p><b>WC/WDM at NMBM Schools</b></p> <p>As the Metro received R2.5 million from DoE, repairs to water infrastructure at the schools have started. 30 School have been identified for urgent repairs, but only 13 schools will be repaired with the said money. The money promised by DWA is now urgently needed. IT asked ML to follow up on the promise. SG reported the BM has received \$60 000 from an USA city for school repairs. Two schools have been identified to be repaired by this money.</p>	ML
9.3	<p><b>Report on progress of other Municipalities</b></p> <p>This is covered under point 9.4</p>	
9.4	<p><b>Fish to Tsitsikamma WC/WDM Strategy and BP</b></p> <p>Willem Wegelin did a presentation of The Development of Comprehensive Water Conservation and Water Demand Management Strategy and Business Plan for the Fish to Tsitsikamma Water Management Area. The objectives of this study are:</p> <ul style="list-style-type: none"> <li>• To make more effective and efficient use of the existing and available water resources by all water use sectors in the study area;</li> <li>• To develop realistic water saving targets for the respective water use sectors and quantify the impact on current and future water requirements in the study area;</li> <li>• To enable the Catchment Management Agency (CMA) and the Department of Water Affairs (DWA) to “free-up” additional water, which can be put to beneficial use in the public interest;</li> </ul> <p>DWA indicated that the capacity figures on the Beervlei and Darlington dams on the presentation need to be corrected. DC also stated that the blue drop figures need to be aligned for all studies. IT stressed that the population numbers also need to be the same for all studies. DC proposed project managers of all studies to sit together and compile one list with all population numbers. WW need to speak to Stephan Marais regarding this issue.</p> <p>IT asked WW to send her an update of the 'Summary of Municipalities' page on a regular basis. She also asked WW to invite representatives of SALGA and CoGTA to the steering committee meeting. Koos Viljoen also to be invited to the SCC meeting.</p>	<p>WW</p> <p>WW</p>
10	<p><b>ORANGE RIVER INTER-BASIN TRANSFER SCHEME</b></p> <p><b>10.1 Nooitgedagt Low-Level Scheme (NLLS) Implementation and Financing</b></p> <p>Phase 1 of the project which incorporates the minimum contracts required to bring water from the Gariiep Dam to NMBM, is nearly complete. Completion of Phase 1 will enable 25 Ml/day to be diverted from the present High Level Scheme towards the Coega IDZ.</p> <p>In order to complete the project, a further 4 contracts are required for which some R350 million is still needed. The design and tender documentation have been completed and further progress is directly linked to funding availability. A funding application presentation has been made to the Capex committee, but was unsuccessful. The first target is now to secure R120 million to get water in the pipe. NMBM need to speak to CoGTA regarding funding.</p> <p>All money allocated to NMBM (R450M) will not be spent in the current financial year as some of the contracts will only finish in the following year. DC urged NMBM to apply for a roll-over as soon as possible by directing a letter to the Chief Director, Eastern Cape Regional Office to address the issue.</p>	<p>NMBM</p> <p>NMBM</p>

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<p>10.2</p> <p>10.3</p>	<p>The following contracts are outstanding:</p> <ul style="list-style-type: none"> <li>• Extensions to Nooitgedagt WTW (Remainder Civil)</li> <li>• Extensions to Nooitgedagt WTW (Remainder Mechanical &amp; Electrical)</li> <li>• 45 MI Reservoir</li> <li>• Low Lift Pump Station Mechanical Equipment</li> </ul> <p>Depending on funding, the earliest availability of water will only be the first quarter of 2015.</p> <p><b>Trading of Orange River Irrigation Authorisations – Upper Fish River</b></p> <p>No discussion</p> <p><b>Desalination of Sundays River irrigation return flows</b></p> <p>The Water Master Plan recommends the NMBM to start a feasibility study regarding the Desalination of Sundays River irrigation return flows. This is to ensure the availability of better information when a decision regarding the next resource augmentation has to be made.</p>	<p>NMBM</p>
<p>11</p> <p>11.1</p> <p>11.2</p>	<p><b>RE-USE OF WATER</b></p> <p><b>NMBM Water Master Plan Update</b></p> <p>The second draft has been submitted and is proceeding through the approval process. Approval awaited.</p> <p><b>Re-use of water treated to industrial standards – Coega and Fish Water Flats WWTWs</b></p> <p>WO reported that the business plan for this option has been finalised. According to the business plan, this is a viable option. However, as the ROD has not yet been received, inputs from the ROD could affect the viability of the option.</p> <p>IT indicated DEAET to be invited to the next ATSG meeting.</p>	
<p>12</p> <p>12.1</p> <p>12.2</p>	<p><b>GROUNDWATER</b></p> <p><b>NMBM Groundwater Scheme study in Progress</b></p> <p>The drilling tender has not yet been finalised. The quotes received for the deep drilling will go to the evaluation committee in the beginning of November.</p> <p>The documentation regarding the water license application is nearly complete. The advertisement will be placed in the paper in November and the necessary signatures for the application are in process of being obtained.</p> <p><b>Other Groundwater Issues</b></p> <p>The following information was received from Dr Ricky Murray regarding the Preliminary assessment of the potential for water treatment through sand filtration north of the Ngqura harbor:</p> <ol style="list-style-type: none"> <li>1. Marc Goedhard (Kainos South Africa) conducted a field visit to the Schelmoek dune field, between the Coega and Sundays River mouths, north of the Ngqura harbor and Coega IDZ.</li> <li>2. The aim would be to feed waste water into wells or trenches up-slope in the dunes, and recover it several hundred metres down-slope after it has undergone filtration in the sands.</li> <li>3. Provisional results indicate three areas may be suitable:             <ol style="list-style-type: none"> <li>a. Immediately north-east of the harbor: Transnet reclamation (sand) dump of 30-40m thickness. This may be suitable to act as a filter for</li> </ol> </li> </ol>	

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	<p>waste water, but it would be necessary to establish whether Transnet would agree for it to be used for this purpose.</p> <ul style="list-style-type: none"> <li>b. About 2 km NE of the harbor: CDC (ex-Perlemoen Grower's area). The sands may be too thin, but geophysical surveys would confirm sand thicknesses. It would be necessary to CDC approval/buy-in.</li> <li>c. About 3 km NE of the harbor: CDC (ex-Prawn Farm area). Same as above (need to clarify sand thickness and use rights).</li> </ul> <p>4. The recommended way forward is:</p> <ul style="list-style-type: none"> <li>a. Establish in-principal agreements with land owners (Transnet and CDC)</li> <li>b. Conduct geophysical surveys in all areas to establish sand thicknesses.</li> <li>c. If the sands are suitably thick, conduct infiltration tests.</li> </ul>	
<p><b>13</b></p> <p><b>13.1</b></p>	<p><b>SEAWATER DESALINATION</b></p> <p><b>NMBM desalination scheme</b></p> <p>The feasibility study is progressing and the siting investigation study has progressed to the point where potential sites have been identified. Site visits have been done to the potential areas. A desktop study of the available desalination technologies has been done. In combination with the detailed feasibility study a water quality monitoring program will need to be implemented at the preferred site in order to establish screening requirements. Discussions are underway with the Nelson Mandela Metropolitan University and the CSIR for the management of this program. A water quality report will be submitted the NMBM indicating requirements and to establish procurement possibilities. Due to the sensitivity of the project, no sites will be identified to the public before official notice will be given.</p>	
<p><b>14</b></p>	<p><b>LOCAL SURFACE WATER DEVELOPMENT</b></p> <p><b>Kouga Dam Safety Work in light of Potential Raising</b></p> <p>No Change. As previously reported, DWA's Directorate Dam Safety has started an investigation into the rehabilitation and stabilisation of the Kouga Dam wall. If the study points out that significant construction would be needed for the rehabilitation, the wall could potentially also be raised at the same time. This will be determined by the investigations and modelling still to be undertaken.</p> <p>PJ mentioned that there will be a delay of this work as an EIA for the access road is needed. The upgrading of the road will probably only start in April 2013 and construction at the dam will start one year later, 2014.</p>	
<p><b>15</b></p> <p><b>15.1</b></p> <p><b>15.2</b></p> <p><b>15.3</b></p>	<p><b>COMMUNICATION</b></p> <p><b>Media Release</b></p> <p>The media release was finalised and sent to DWA head office for approval.</p> <p><b>Annual Status Report to Strategy Steering Committee</b></p> <p>The annual status report has been finalised and will be used for reporting back to DWA management.</p> <p><b>Webpage Update</b></p> <p>A webpage is being developed for the Algoa WSS. It will be updated with the latest information and distributed to the members for comments when complete.</p>	

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<b>16</b>  <b>16.1</b>  <b>16.2</b>	<b>IMPACTS ON YIELDS OF EXISTING DAMS: ECOLOGICAL RESERVE AND CLIMATE CHANGE</b>  <b>Implementing the Reserve for existing dams</b>  DC stated that no instruction for the implementation of the signed Reserve has been received. This should be followed up with Ms B Weston.  <b>Climate Change</b> No discussion	          BWeston/ NMohapi
<b>17.</b>  <b>17.1</b>	<b>CONTRACT ADMINISTRATION</b>  <b>Budget and Cash flow</b>  Nothing to report	
<b>18.</b>	<b>GENERAL</b>  Nothing under general	
<b>19.</b>	<b>NEXT MEETING</b>  The next meeting will take place on Wednesday 6 February 2013 at <b>09h00.</b>	
<b>20.</b>	<b>CLOSURE</b>  The meeting was adjourned at 13h30.	