



MINUTES OF MEETING

Algoa WSS Reconciliation Strategy Continuation: ATSG Meeting 12 held on 12 July 2016 at the offices of Aurecon, Port Elizabeth

Item			Action
1.	WELCOME		
	The chairperson, Ms Isa Thompson welcome Administrative and Technical Support Group of the Strategy Continuation.	• •	
2.	ATTENDANCE AND APOLOGIES		
	Attendance		
	Menard Mugumo	DWS: CE: OA	MM
	Isa Thompson	DWS: D: NWRP CE: South	IT
	Jenny Pashkin	DWS: D: WRPS	JP
	Ilse Viljoen	DWS: Proto CMA, Catchment Management	IV
	Paul Chilton	DWS: CE: Proto CMA CM	PC
	Lindiwe Sithole	DWS: D: WUE	LS
	Jannie Fourie	DWS: D: WUE	JF
	Zanele Mvusi	DWS: HO	ZM
	Tony Moore	DWS: CE: OA	TM
	Theo Geldenhuys	DWS ECape: CE: Water Use Regulation	TG
	Mullineux, Stephen (Mr)	DWS ECape: DCE: Water regulation and use	SMu
	Samuel Maduna	DW: ECape: DD: Hydro WR&U	SM
	Dave Turner	NMBM	DT
	Chandre Barnard	NMBM	СВ
	Pierre Joubert	Gamtoos IB	PJ
	Rienette Colesky	Gamtoos IB	RC
	Graham Taylor	Coega IDZ	GT
	Nick Chapman	VWSA – Business Chamber	NC
	Nico Lombard	Cacadu District Development Agency	NL
	Harms du Plessis	LSRWUA	HdP
	Andreas Engelbrecht	GFRWUA	AE
	Sieg Rousseau	Amatola Water	SR
	Aseza Dlanjwa	SALGA	AD
	Zona Gokie	SALGA	ZG
	Jeff Govender	DEDEAT	JG
	Reina Zastron	Aurecon	RZ
	Kevin McRae	AfriCoast Engineers SA	KMR
	Maxine Botha	Aurecon	MB
	Erik van der Berg	Aurecon	EvdB
	Jon Rutherford	Golder	JR

Item			Action
	Apologies		
	Paul Herbst	DWS: D: WUE	PH
	Pieter Viljoen	DWS: D: WRPS	PV
	Celiwe Ntuli	DWS: D: WRPS	CN
	Ockie vd Berg	DWS: D: Options Analysis	OvdB
	Martin Labuschagne	DWS ECape: WR&U-WUE	ML
	Andrew Lucas	DWS ECape: D: Water Regulation and Use	AL
	Barry Martin	NMBM	ВМ
	Robert Higgins	PetroSA	RH
	Dup van Reenen	AfriCoast Engineers SA	DvR
	Pieter Barry	DWS ECape: Acting RD: Southern Operations	PB
3.	ADOPTION OF AGENDA		
	No changes to the agenda were made.		
4	APPROVAL OF PREVIOUS MINUTES		
	No minutes to approve as this was the first meet	ing.	
5.	RELEVANT PROJECTS AND INITIATIVES UN ENTITIES	DERTAKEN BY OTHER RESPONSIBLE	
5.1	AWSS Annual Operating Rules		
	Jenny Pashkin reported that a System Operations Forum (SOF) was convened on 7 June 2016 to present the current situation in terms of storage in the System's dams and water use. This forum aims to achieve consensus on restrictions that will be imposed, if any are required. Water use scenarios were presented at this forum in terms of how the system of dams could perform under various restriction rules. In the case of the 2016 SOF for the Algoa System an additional scenario was done to assess the impact of the application by the NMBM for additional temporary water allocations from the Kouga and Kromme sub-systems.		
	The main issues at the Algoa SOF were that NN Kromme system for many years. Restrictions we water use by NMBM into line with their allocation 2015 and repeated in April 2016 and still remain that NMBM have done very little to reduce their actually increased substantially over the past years.	ere recommended at the 2015 SOF to bring the ons. These restrictions were Gazetted in March in force. The point was raised at the 2016 SOF water consumption and their total water use has	
	Shortly before the 2016 SOF meeting, NMBM submitted a request for an additional temporary allocation of 5.5 million m³/annum from the Kouga system and 16.4 million m³/annum from the Kromme system. The 5.5 million m³/annum additional water from the Kouga System has already been used in the previous year (without authorisation) and the GIB objected to the increased risk that this action has placed on irrigators. The additional 16.4 million m³/annum requested from the Kromme system puts NMBM back to the current water usage situation in which their users remain unrestricted. The Forum recommended no temporary allocation from the Kouga system and a temporary license for 8.2 million m³/annum from Kromme system.		
	IT asked the NMBM what they have planned to restrictions are in place for the Metro. She indic over-abstracting from the western supply system dire water availability situation. CB reported that resulted in water savings. Their water use decreased Ml/day in June 2016. He reported that the me replacement on 14 July 2016. JP asked the Me weekly basis.	ated that it is of huge concern that the Metro is n, but doing nothing to sensitize users as to the a number of initiatives are under way which has eased from 341 ML/day in January 2016 to 296 etre at Loerie balancing dam is scheduled for	СВ

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5.2	Establishment of the upper Kouga/Kromme Irrigators WUA PC reported that no progress has been made since Ms Blie has retired from DWS. Nobody has taken over this project as yet. IT will follow up on the issue.	IT
5.3	Verification & Validation (V&V) of water use PC reported that the validation for the Langkloof area is complete but that the verification has not been done. He indicated that this will be done under the V&V project that has been awarded for the whole of the Eastern Cape recently.	
5.4	Working for Water PJ of GIB reported that in the Kouga catchment, 24 000 ha has been cleared from alien vegetation. Some follow-up clearing has been done since, but the responsibility to keep the areas cleared, after the area has been done, resides with the land owners. High-altitude work (requiring a helicopter to transport the staff) totals 140 000 ha, mostly in the Kouga catchment. In the Kromme catchment, 28 000 ha have been cleared. This excludes the high-altitude work which has been done by helicopter. Minimal work is done at the Diep River area, downstream of the Churchill Dam as no funds are available for this area. Focus could only change to this area after work at the Kromme is complete, and this won't be finished in the foreseeable future. The project is following a top-down approach which means that the vegetation is getting denser, when working in the lower-altitude areas. PJ indicated that many more years of clearing remains in the Kouga catchment. Adequate funding for these projects stays a challenge.	
	PJ reported that, for rehabilitation of wetlands, R30 million has been spent on weirs and the maintenance of weirs.	
5.5	Other No discussion	
6	OPERATIONAL EFFICIENCY	
6.1	Darlington Dam Operating capacity and dam safety rehabilitation programme	
	IT reported that this is still on the dam safety programme but not with a high priority.	
7	WATER REQUIREMENTS AND USE	
7.1	NMBM water requirements & use DT reported that the final water use value for the NMBM for June 2016 is 295.34 Ml/day. EvdB indicated that he will need to update the historical water use values and review future projections. JP said that the monitoring report contains all the numbers. The total use of the NMBM for 2015/16 was 84.66 million m³ whereas the restricted allocation was only 52 million m³ from the Algoa WSS. JG enquired as to the availability of water for future developments.	EvdB
	IT indicated that a meeting is scheduled between NMBM and DWS to discuss the water use of NMBM. At the present uncurtailed rate of use there is no room for any further development until the Nooitgedacht Low-level Scheme is fully operational. She also stressed that drastic action is needed as no WC/WDM measures are seen to be in place to restrict water use. JP mentioned that KV has all the numbers available. KMR mentioned that the losses at schools are of huge concern.	NMBM
	Salga and DEDEAT mentioned that water must be made available for the new development of about 11 000 houses. The Thyspunt development must also be taken into account. Salga mentioned that they are looking for information regarding the development aspects of the power plant. JG can provide them with the information on the environmental licences if needed.	JG EvdB/RZ
7.2	Coega IDZ water requirements GT reported that there is no change in the projection of the Coega IDZ water requirements. No dates are available for when big investors will be established at the IDZ. The reservoirs at Coegakop are being carefully monitored. The RE reservoir is, in the interim, used for potable water. Big users await confirmation of water and power supply before they will move to and establish at the Coega IDZ.	

	Action
Kouga I M water requirements	7.00.011
No discussion as no representative from Kouga LM attended the meeting. GT indicated that the spatial framework for Kouga LM is available. The PSP will source this framework and incorporate the necessary information in the modelling.	EvdB/RZ
IMPROVING THE CONFIDENCE OF WATER AVAILABILITY	
Proposed water availability assessment study – Kouga-Loerie and Churchill-Impofu	
IT said that this study has been long outstanding and DWS must try to get this study moving. The dire staffing position in NWRP is causing the huge problems. No further discussion.	DWS
WC/WDM	
Report by NMBM	
CB reported that the following are actions that NMBM is using to reduce non-revenue water: Pressure management Pipeline, valve and meter replacement Top consumer audits Bulk metering, sectorisation and monitoring Household leak repair programme Removal of mid-blocks Metering of formerly unmetered properties Leak detection and repair Community awareness Water reuse	NMBM
IT asked for NMBM to provide DWS with a report on the WC/WDM measures implemented, budget spent and where possible, water savings achieved, for the whole financial year to end June 2016. She also asked the NMBM to do a 15 minute presentation at the SSC meeting on 13 September 2016 (new date 21 September 2016).	NMBM
Report on progress of other municipalities No discussion	
ORANGE RIVER INTER-BASIN TRANSFER SCHEME	
Nooitgedagt Low-Level Scheme Implementation and Financing KMC reported that the Nooitgedagt / Coega Low-Level Scheme is being implemented as follows: Phase 1 Implemented by NMBM and funded partly by DWS (R453 million) and balance (R125.7 million) by NMBM (values exclude VAT) A Linguisting of settling capacity and sludge handling systems at Nooitgedagt WTW and sludge handling systems at Nooitgedagt WTW and sludge handling systems.	
 completed Construction of low level rising and gravity mains from Nooitgedagt WTW to Motherwell Reservoir with branch to Coega IDZ boundary - completed 10 MI reservoir at Olifantskop - completed New booster pump stations at Motherwell and Standford Road – awaiting commissioning 	
 Phase 2 Implemented and funded by NMBM (R127,6 million excluding VAT) Additional 6 filters and Low-lift Pump Station at Nooitgedagt WTW – under construction for completion in March 2017 Three separate contracts for civil works, WTW mechanical and electrical works, pump 	
	spatial framework for Kouga LM is available. The PSP will source this framework and incorporate the necessary information in the modelling. IMPROVING THE CONFIDENCE OF WATER AVAILABILITY Proposed water availability assessment study – Kouga-Loerie and Churchill-Impofu IT said that this study has been long outstanding and DWS must try to get this study moving. The dire staffing position in NWRP is causing the huge problems. No further discussion. WC/WDM Report by NMBM CB reported that the following are actions that NMBM is using to reduce non-revenue water: Pressure management Pipeline, valve and meter replacement Top consumer audits Bulk metering, sectorisation and monitoring Household leak repair programme Removal of mid-blocks Metering of formerly unmetered properties Leak detection and repair Community awareness Water reuse IT asked for NMBM to provide DWS with a report on the WC/WDM measures implemented, budget spent and where possible, water savings achieved, for the whole financial year to end June 2016. She also asked the NMBM to do a 15 minute presentation at the SSC meeting on 13 September 2016 (new date 21 September 2016). Report on progress of other municipalities No discussion ORANGE RIVER INTER-BASIN TRANSFER SCHEME Nooitgedagt Low-Level Scheme Implementation and Financing KMC reported that the Nooitgedagt / Coega Low-Level Scheme is being implemented as follows: Phase 1 Implemented by NMBM and funded partly by DWS (R453 million) and balance (R125.7 million) by NMBM (values exclude VAT) Upgrading of settling capacity and sludge handling systems at Nooitgedagt WTW - completed Construction of low level rising and gravity mains from Nooitgedagt WTW to Motherwell Reservoir with branch to Coega IDZ boundary - completed New booster pump stations at Motherwell and Standford Road – awaiting commissioning Upgrade of electrical substation at Nooitgedagt WTW – completed. Phase 2 Implemented and funded by NMBM (R127,6 million excluding VAT) Additional 6 filters and Low-lift Pump S

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	Phase 3	
	Funded by DWS who has appointed Amatola Water as the implementing agent. Business Plan was approved for R286.8 million including VAT.	
	Single contract advertised on 15 July 2016 for:	
	 Additional 70 Ml/day (peak) module at Nooitgedagt WTW (civil, mechanical and electrical works) 	
	 45 MI reservoir at Olifantskop 	
	 Cathodic protection and AC mitigation measures on Nooitgedagt and Churchill pipelines 	
	Rehabilitation of Chelsea – Motherwell pipeline	
	 Expect contractor to be appointed about September / October 2016 Construction to be completed within 24 months. 	
	HdP stated that the Scheepersvlakte balancing dam will be a bottleneck for the delivery of water for Phase 3 and that delivery of the additional water will be restricted. IT asked that potential fast-tracking of the Feasibility component of the study be considered. EvdB noted that care must be taken that planning activities should not unnecessarily be repeated.	EvdB
10.2	Desalination of Sundays River irrigation return flows	
	EvdB indicated that this could potentially form part of the Nooitgedagt Low-Level Scheme, but this will be determined by the Feasibility Study. KMR confirmed that this was actually planned as a separate scheme, feeding the desalinated water directly into the Coegakop reservoir.	
11	RE-USE OF WATER	
11.1	NMBM Water Master Plan update	
	No discussion.	
11.2	Re-use of water treated to industrial standards – Fish Water Flats and Coega WWTWs	
	KMR reported that the design is mostly completed and a 17 MI reservoir at Coegakop is partly (about 85%) completed. The CDC needs to procure additional funds to complete the reservoir. The implementation of the remainder of the scheme is dependent on water requirements from large water users establishing in the IDZ. The construction will take 18-24 months to complete and R600 million is needed to bring the bulk supply conveyance infrastructure to the Coega IDZ boundary. IT said that it seems that water could be managed for a big user as the time that a big user needs to establish could be used for the construction of the water bulk infrastructure. It seems that electricity is a bigger challenge at Coega than water, in the longer-term.	
	JG indicated that environmental authorisation is not yet in place for the bulk infrastructure.	
12	Groundwater	
12.1	NMBM Groundwater Scheme	
	 Marius van Jaarsveld did a presentation on the progress of the ongoing south-eastern Coega Fault groundwater scheme being implemented by NMBM. He noted that the history of groundwater planning and implementation is as follows: 2004: High-yielding Groundwater Areas around the NMBM (Report by Groundwater Africa to the Water Research Commission identifies the prime groundwater target areas - Report No. TT 327/08) 2008 onwards: Water Reconciliation Strategy Study for the Algoa Water Supply Area. Groundwater listed as an option in the Aurecon strategy reports 	
	 2010/2011 Drought: Groundwater fast-tracked as a potential emergency supply option. Boreholes sited after extensive geophysic surveys. End 2013: Appointed drilling contractor 2014: Drilling of 27 probe/exploration holes and compile tri-annual drilling tender 	
	document	

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	2015: Decided to drill one production hole – currently finalising the design and tender document.	
	Various methods have been used to estimate the "sustainable yield" of the aquifer. The estimate ranges between about 35 - 43 Ml/day (it may even be as high as ~50 Ml/day).	
	The NMBM has applied for a groundwater use license of 26 Ml/day which includes the flow from the Uitenhage Springs.	
	Water quality testing still needs to be completed and it will be determined whether blending is an option. A production hole will be drilled and infrastructure will be installed. The entire well field still needs to be test-pumped.	
13	SEAWATER DESALINATION	
13.1	NMBM Desalination Scheme	
	The recent study of a 30 Ml/d desalination plant has been stopped. DT reported that a request for proposals for identifying a desalination site at the Coega IDZ site closed on 24 June 2016 and is now being assessed.	
14	LOCAL SURFACE WATER DEVELOPMENT	
14.1	Kouga Dam safety work in light of potential raising IT reported that, according to the latest information, no major safety work is necessary for the dam and the planned dam safety activities have been put on hold.	
15	COMMUNICATION	
15.1	Status Report to Strategy Steering Committee	
	A draft Status Report will be distributed for comments and will be tabled at the SSC meeting on 13 September.	EvdB/RZ
15.2	Webpage Update	
	The webpage will be updated with the relevant information after the SSC meeting, once held.	RZ
16	IMPACTS ON YIELDS OF EXISTING DAMS: ECOLOGICAL RESERVE AND CLIMATE CHANGE	
16.1	Implementing the Reserve for existing dams	
	Ecological Reserves should be implemented for new dams.	
16.2	Climate change	
10.2	No discussion.	
17.	GENERAL	
	No discussion.	
18.	CLOSURE	
	The next SSC meeting will take place on Wednesday 27 September 2016 @ 09h00	
	The next SMC meeting (for the feasibility study) is scheduled for Monday, 10 October 2016 @ 13h30	
	The next SMM meeting (for the water efficiency task) is scheduled for Monday, 10 October 2016 @ 14h30.	
	The next ATSG meeting is scheduled for Tuesday, 11 October 2016 at 09h00.	
	The meeting was closed at 14h00.	