



	Mee	etings & Wor	kshops
Name	Date	Purpose	Outcomes
Gauteng Water Sector	17 Sep 2009	Meeting called by Gauteng	See milestones and
Forum Strategic		MEC for Local Government	outcomes below
Workshop Towards Up		and Housing, Kgaogelo	
Scaling WC/WDM		Lekgoro	
Measures In Gauteng			
Municipalities			
WCWDM task team	5 Aug 2009	Co-ordinate activities on setup of	Developed a draft business
meeting	9 Sept 2009	a steering committee.	plan with targets and
	2 Oct 2009	Review Eskom NERT PMU model	budgets for all Gauteng
	40 E-h 0040	Develop provincial business plan	municipalities
	16 Feb 2010	Mobilize funding	Discussions with DBSA
		wobilizerunding	Monitor ACIP funding for
			Col
Technical Sub-Task Team	19 Nov 2009	Review and define targets for	Developed a draft business
Meeting	15 Dec 2009	Gauteng municipalities	plan with targets and
ů –	10 200 2000		budgets for all Gauteng
			municipalities
Collaboration meetings	Various	Review business plans and target	Meetings held with : CoJ,
with municipalities		setting, funding issues	EMM, CoT, EMF, Mogale
			City and Pandfontoin



## WAY FORWARD ......(2)

The WC/WDM Core Team must set up a coherent programme management support structures to:-

- è Define and measure WC/WDM targets one provincial plan
- è Provide subject matter expertise where required partnerships with private sector initiatives
- Develop alternative funding models and business cases – learn and share best practices
- è Establish workgroups to support and capacitate municipalities PMU

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### WAY FORWARD .....(4)

- The DLG&H and Water Affairs (PMU) will support municipalities in the implementation of the respective plans
- è Coordinate and link the initiatives to other key Provincial initiatives, in particular
  - Provincial Electricity Efficiency Strategy and Plan
  - Municipal Revenue Enhancement Strategy and Plan
  - Infrastructure Management Plan cost and budget
  - Government wide Monitoring and Evaluation System

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Department's Human Settlement Programme
Infrastructure Support Programme

### WAY FORWARD .....(3)

- Implement integrated performance monitoring, evaluation and reporting – one format for all municipalities
- Implement communication and multi stakeholder management approach – One common ongoing educational campaign
- è Capacity Building (Artisans & other technical Staff)
- è Monitor, Evaluate and Report on the programme and facilitate the unlocking any bottlenecks
- è WSDP and IDP integration

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## WAY FORWARD ......(5)

- è Presenting and Reporting
  - Present overall Gauteng WSF plan to the Provincial Executive Council for approval and endorsement
  - Report to DLG&H and DWA on monthly basis
  - Report to the Member of the Provincial Executive Council on Quarterly Basis
  - Report progress to Premier's Coordinating Forum (PCF)





Area	2008/09 Annual Demand (million m3)	Current Non- Revenue Water (million m <sup>3</sup> /a)	2005/06 Possible Savings (million m3/a)	% Contribution of total saving	% reduction
CoJ	502.7	160.9	110.2	56.2%	21.9%
Ekurhuleni	326.8	124.2	28.3	14.4%	8.6%
Tshwane	214.2	62.1	20.4	10.4%	9.5%
Emfuleni	77.1	31.6	26.1	13.3%	33.9%
Rustenburg	27.9	9.8	3.0	1.5%	10.6%
Mogale	26.4	7.1	1.7	0.9%	6.6%
Govan Mbeki	20.4	5.9	1.5	0.8%	7.5%
Matjhabeng	18.9	6.6	4.3	2.2%	22.9%
Randfontein	8.7	2.6	0.4	0.2%	4.1%
Total	1 223.0	410.8	195.9	100%	16%





2008-09 Targets vs Actual Savings				
Municipalities	Target 2008-09	Target 2008-09	Actual	%
	Losses +	Losses	2008-09	reduction
	Efficiency			of target
City of Johannesburg	86.06	86.06	-2.88	-3.3%
City of Tshwane	15.58	15.58	20.57	132.0%
Ekurhuleni	21.08	21.08	-3.63	-17.2%
Emfuleni	21.44	21.44	7.90	36.8%
Mogale	1.39	1.39	-1.43	-102.5%
Westonaria	0.59	0.59	-0.97	-165.3%
Randfontein	0.30	0.30	0.89	293.8%
Lesedi	0.26	0.26	0.33	126.9%
Kungwini	3.72	3.72	0	-
Nokeng tsa Taemane	0.18	0.18	2.08	1143.3%
Midvaal	0.92	0.92	1.61	159.0%
Merafong	1.01	1.01	4.60	498.2%
Total	152.53	152.53	29.07	19.1%
				1000















• Ensure that project 15% feature high on the Ministerial Gauteng Provincial Indaba



























Capacity building

teams Objective: Compile ToRs and appoint technical teams		
Surface water - Upper Vaal	KSA, WfA & Econ@UJ	
Surface water - Middle Vaal	Golder & EcoSun	
Surface water - Lower Vaal	Golder, Ecosun & PDNA	
Water resource modelling	WRP, DMM & Innovative Solution	
Surface water quality	Golder & Ecosun	
Groundwater – Upper Vaal	CSIR	
Groundwater – Middle Vaal	CSIR	
Groundwater - Lower Vaal	AGES	











# Phase 4: Technical Reserve determination study (main activities) (Mater quality: • Identification of water quality sub-units and reconnaissance field visits • Information provided to NWRP for determination of Resource Water Quality Objectives • Water quality sampling undertaken, including diatoms at EWR sites • Information was used in the PES/EIS and HFSR workshops

# Phase 4: Technical Reserve determination study (groundwater) Field surveys Data collection Quality Water Balance Modelling: Used to assess and quantify the groundwater balance per quaternary catchment Identified a number of stressed catchments

Phase 4: Technical Reserve determination study (main activities) (s
Water Resource Modelling:

Review and updating of hydrology for WRPM
WRPM configuration has been updated for all the EWR sites (hydrology, system operation and physical constraints)

Scenarios: baseline, present with and without EWR, future with EWR



# Capacity building Integrated capacity building plan developed Water quality (TEACHA and PAI) training SPATSIM training (initial and a follow-up workshops) WRPM training Capacity building is ongoing with the specialist trainees on the various technical teams A 2-day wrap-us training session was held to summarise the 8-step Reserve process and to define the linkages between these steps



- Feedback meeting with DWA managers to present the final results of the study
- Development of an implementation strategy for the Reserve requirements
- Finalisation of the Reserve documentation















# Actions to be undertaken Develop, design and cost re WA cenarios Build on work that has been done to date Analysis of proposed schemes using the WRPM to assess impacts on the Vaal River System Develop a framework for the financing of the re-use schemes, with *inter alia* the following in mind Which tariff applies? Alteration with mine water strategu Payment of transfer schemes by receiving catchments

## Actions to be undertaken

Location, volumes and qualities **Club**ent and future effluent discharges need to be confirmed

- Location and volumes where the effluent can be re-used need to be determined (potable and industrial re-use)
- This may involve transfers to adjacent catchments such as the Crocodile West and Olifants
- Develop water quality requirements for the treatment of effluent if the water is to be transferred into adjacent catchments.
- Receiving water quality of adjacent catchments will dictate water quality requirements

## Actions to be undertaken

- The institutional structures to be adopted for the re-use schemes
- The outcome will be the plan to use the excess water and will lead to feasibility studies or tender processes
- Would like some firm answers at the next SSC meeting













