



LIMPOPO WATER SECTOR PRESENTATION

By
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- COLLACOM Restructuring



- Provincial Integrated Water Sector Plan (PIWSP) Review

- Water Resources Management
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1. COLLACOM RESTRUCTURING



BACKGROUND



- COLLACOM has been operational for many years with,
- A mandate to foster collaboration amongst stakeholders.
- Initially this mandate was narrowly focussed on the transfer of water services sector in Limpopo
- As a result of the Multi-Annual Action Plan initiative in 2000 and the subsequent Masibambane programme,
- Following the Water Summit held in early 2005 COLLACOM became responsible ,
- Through a sector-wide task team for the development of a Provincial Water strategy, coherently bringing together the Water Resource Management and Water Services Strategies.
- This strategy was endorsed by COLLACOM in March 2007



COLLACOM

RESTRUCTURING....



PURPOSE

- The purpose is to present an argument for the formal creation of the Limpopo Water Sector Intergovernmental Forum,
- And also to lay out a number of improvements to COLLACOM, its task teams and its operations to meet the current and future needs of the water sector in Limpopo.



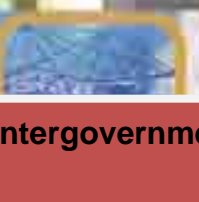
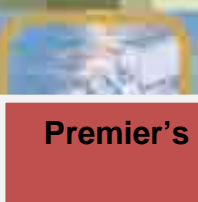
COLLACOM RESTRUCTURING...



PROVINCIAL WATER SECTOR COLLABORATIVE STRUCTURES

5 key objectives must be achieved:

- Improved political leadership of the water sector.
- Links established into provincial decision-making structures.
- Effective M&E of implementation plans and progress.
- Water resource management as prominent as water services.
- Legislatively Constituted Provincial Water Sector Intergovernmental Forum



Premier's Intergovernmental Forum (PIF)

Limpopo Water Sector Intergovernmental Forum (LWSIGF)

COLLACOM: as Technical Committee in support of the LWSIGF

PMU: as steering committee

Regulation

Planning & Infrastructure

Institutional Development

Provincial Sanitation

Ad Hoc Task Teams as necessary

WSA Water Forum

WSA Water Forum

WSA Water Forum

WSA Water Forum

WSA Water Forum

COLLACOM Concept March 2009



COLLACOM RESTRUCTURING...

CONSULTATION PROCESS

- Concept paper endorsed by COLLACOM.
- CD to consult the MEC & HOD of DLGH, SALGA and Premier's office.
- Launching of the structure during Water Indaba in October.



2.REVIEW OF PWSP

- Limpopo Water Sector strategy & associated plans are being updated.
- To ensure alignment with MTSF, WFGD and PGDS (Under review - 2 October 2009).
- Further review by Water Indaba taking place in 01 October 2009.



3. WATER RESOURCES MANAGEMENT-DECLARATION OF DISASTER STRIKEN AREAS (IMPACT ON MUYEXE CRDP)



OVERVIEW-MIDDLE LETABA CRISIS




PROBLEM STATEMENT

- Both Middle Letaba and Nsami Dam levels are very low (currently 5% and 0% respectively) – affecting more than 800,000 people within the following four local Municipalities under Mopani and Vhembe District Municipalities:
 - Greater Giyani Local Municipality
 - Letaba Local Municipality
 - Makhado Local Municipality
 - Thulamela Local Municipality




Overview: Supply to Giyani

- 
- Original plan was that **Giyani** be supplied from Middle-Letaba Dam through a 54km canal
 - Canal supplies water to Giyani(Nsami) waterworks with the capacity : 27 MI/day capacity (9.855 million m³ per annum)
 - Groundwater supplies additional 51 l/s (1.608 million m³ p.a.)
 - Nsami Dam was planned to supply only agriculture water. However, recently, most water to Giyani is from Nsami Dam
 - An El Nino phenomenon is forecast for Southern Africa. This means a likelihood of low rainfall for the two dams this summer

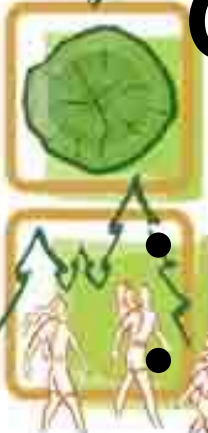


Overview: Current Infrastructure

- 
- Nandoni Dam was planned to increase yield in Levubu Letaba by additional 62 million m³ pa
 - The water is for domestic and agricultural use
 - The waterworks at Nandoni have capacity to purify 60 MI/d (21.9 million m³ pa)
 - There are no firm applications for the raw water and the treated water by municipal areas (e.g. VDM, CDM, MDM), only indicative needs
 - Giyani can be linked in an emergency by reversing the flows in the existing Malamulele West Scheme to Mapuve and from Mapuve to Giyani (Nandoni-Mudabula-Giyani pipeline)



Overview: Current Infrastructure

- 
- Large number of boreholes are not operational
 - High risk of chronic shortages in future indicates a need for a permanent augmentation of supply
 - The action plan below responds to the above infrastructure (drying dams) and operational (in-operational boreholes) constraints



Action Plan: Immediate



- Declaration of a Disaster Area in order to mobilise funds (*memo written to DG/Minister 06 July 2009*)
- DWEA has received support of the declaration from
 - Department of Agriculture
 - Mopani District Municipality
 - Premier's Office
 - Disaster Management structures




Action Plan: Immediate/Urgent

- Water restrictions and water demand management measures to ensure long-term efficient water use on agricultural and domestic use **[R5.0M]**
- Rehabilitation of boreholes in Giyani area **[R11.5M]**
- Use of existing infrastructure to reverse-flow *treated* water from Nandoni to Giyani via Mapuve **[R16.0M]**



Action Plan: New Infrastructure

- 
- Water transfer from Klein Letaba River (e.g. wellpoints) **[R7.5M]**
 - Link Nandoni dam link to Majosi System to relieve Middle Letaba System **[R55.0M]**
 - Design of new raw-water pipeline from Nandoni to Giyani (Nsami) waterworks **[R18.0M]**
 - Construct the raw-water pipeline **[R127.0M]**

Phase 1: Estimated Budgets

Action	Description	Duration	Cost
	Water Demand/Conservation Management, and Water Restrictions on agriculture and domestic use	5 Months	R 5.0 M
2	Use "dead water" storage in Middle Letaba Dam	4 Months	R 5.0 M
3	Maximise groundwater utilisation: <ul style="list-style-type: none"> o Utilise all existing boreholes o Develop further groundwater 	3 Months 12 Months	R 8.0 M
4	Nandoni Dam to Malamulele West (Nandoni-Mudabula – Giyani pipeline): Expedite programme & additional measures	4 Months	R 16.0 M
5 (a)	Design: Middle Letaba Dam link to Majosi System	6 Months	R 7.0 M
6 (a)	Design: Raw water pipe Nandoni Dam to Giyani Water Treatment Works	6 Months	R 18.0 M
7	Klein Letaba River water transfer (only assists if river flows)	6 Months	R 7.5 M
8	Contingency amount		R 5.0 M
Total Budget Requirement			R 71.5 M

10/15/2013 **Operations and Maintenance Costs : R8.0M per annum**



Phase 2: Estimated Budgets

Action	Description	Duration	Cost
1 (b)	Maximise groundwater utilisation: <ul style="list-style-type: none"> ○ Utilise all existing boreholes ○ Develop further groundwater 	3 Months 12 Months	R 3.5 M
4	Middle Letaba Dam link to Majosi System	9 Months	R 48.0 M
5	Raw water pipe Nandoni Dam to Giyani Water Treatment Works	12 Months	R 127.0 M
Total Budget Requirement			R 178.5 M

Operations and Maintenance Costs : R18.0M per annum




Action Plan: Long-term Future of Middle Letaba Dam

- Determine future role of Middle Letaba Dam
 - Review hydrological/design information
 - Fastrack validation and verification of water use



MUYEXE – CRDP (& IMPACT OF WATER CRISIS)

OBJECTIVES

- 
- **Improve rural livelihoods**
 - **Social and economic development (infrastructure) to ensure**
 - **Poverty alleviation (Food security and job creation)**
 - **Access to services**



CRDP Progress

Activity	Progress	Comment	Budget
Community water & sanitation	Water from Giyani treatment works reaches Muyexe reservoir but does not fill it to full capacity due to illegal connections.	Installation of control valves to regulate reservoir levels recommended to MDM.	MDM
Water Quality Assessment	Testing of 22 <u>government</u> boreholes (19 exist & 2 new) for both yield & quality started on 04/08/2009 & completed on 31/08/09.	Progress to date:- Yield tests have been completed. Water quality results still outstanding.	R250, 000 allocated (DWA)
	39 private boreholes were tested and analyzed for chemical and bacteriological parameters	General high Nitrate content. Consultation with owners ongoing as part of H&H awareness	R0



CRDP Progress

Activity	Progress	Comment	Budget
Schools Sanitation	Construction of 4 sanitation blocks per each of 2 schools complete.	10 jobs created 2 male & 8 female	R1.6 m (DWA)
Sanitation Job Creation (SJC)	38,000 bricks used in the schools sanitation project bought from SJC	25 jobs created (10 male and 15 female)	R0
Health and Hygiene Awareness	H&H awareness campaign conducted on 30/06/2009 (Exhibition day). Health and hygiene awareness has been conducted at both schools and 500 households.	Awareness for the remaining 1000 households is ongoing and will be completed soon.	R0



CRDP Progress



Hatlani Muyexe high school sanitation project 14/08/2009



CDP Progress



Muyexe primary school sanitation project 14/08/2009



CRDP Progress





CRDP Progress (As at 17/08/2009)



10/15/2009

DWA CRDP PROGRESS REPORT
17/08/2009

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Muyexe CRDP Action Plan:



- Ongoing activities

- Water Quality: Source R5.0million funding to equip boreholes and link to reticulation system
- Ongoing support to job-creation project
- Health & Hygiene awareness ongoing



Action Plan: Middle-Letaba Crisis



- Muyexe (Giyani) supplied from Middle-Letaba and Nsami Dams, as well as boreholes (part of Middle-Letaba RWSS)
- Action plan is required due to:
 - Low dam levels: Middle-Letaba Dam at below 5%; Nsami 0%
 - Current water crisis situation may compromise CRDP plans



4. WATER SERVICES TRANSFERS

WS Function: Speedy resolution on schemes valued at more than R100m by Parliament.



5.FUNDING



Insufficient budget to fulfill all BP activities



6.LIMPOPO WATER INDABA

- 
- Scheduled for 1 October 2009
 - Venue: The Ranch Hotel, Polokwane, Limpopo



**End.
Thank You.**