

WATER SECTOR IDP REPORT

**WSDP WATER SECTOR INTEGRATION OUTFLOW:
Water Services Delivery, Resources & Infrastructure
Planning**

LANGEBERG LOCAL MUNICIPALITY: OCTOBER 2010



DRAFT DISCUSSION DOCUMENT 15 OCTOBER 2010

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WSDP WATER SECTOR INTEGRATION OUTFLOW:

Water Services Delivery, Resources & Infrastructure Planning

EXPLANATION PAGE

For any Local Government to supply sustainable water services to their customers it is important to regard the issues listed below in planning and implementation to ensure continuous service delivery at the required standards. The issues are important aspects within the Water Services Development Planning process for the specific area of authority. The information provided below are required issues that need to be addressed in an IDP as reflected in the IDP Analysis Framework and was extracted from the detail WSDP Module 1 document compiled for the municipality.

Evidential Criteria / KPIs WATER	Evidential Criteria / KPIs SANITATION
<p>Is the WSDP</p> <p>a) Adopted ? NO</p> <p>b) Has it been reviewed in last year.? NO</p>	<p>Does the IDP reflect knowledge, implementation, strategies and target programmes w.r.t.</p> <p>a) Backlogs</p> <p>b) Basic services provision</p> <p>c) Free basic sanitation</p> <p>d) Higher levels of service requirements</p> <p>e) Associated services eg. Schools and clinics</p>
<p>Do the IDP reflect knowledge, implementation, strategies and target programmes w.r.t.</p> <p>a) Backlogs</p> <p>b) Basic services provision</p> <p>c) Free basic water</p> <p>d) Higher levels of service requirements</p> <p>e) Associated services eg. Schools and clinics</p> <p>f) Water for growth and development.</p>	<p>Does the WSDP reflect multi - year projects to address the backlog?</p>
<p>Did the IDP integrate other sector programme's water requirements and specially address the impact on water planning.</p> <p>a) Housing</p> <p>b) Agriculture</p> <p>c) Mining</p> <p>d) Tourism</p> <p>e) Public Works programmes</p>	<p>Does the municipality have a sanitation implementation plan put in place?</p>
	<p>Does the municipality have the CAPEX Plan which indicates allocation for sanitation for the next three years?</p>
	<p>Does the municipality manage (a) waste water treatment?</p>
	<p>Is there a plan to manage untreated effluent?</p> <p>Has this Municipality determined the need / extent for basic services, (a) free basic and (b) higher level service?</p>
	<p>Is the sanitation service financially viable and is there a budget that is ring fenced?</p>
	<p>Is the licensing/contractual arrangement i.t.o of (a) WSA, (b) WSP, (c) WWTW working? YES</p>

- Did the IDP provide a proper project list that addresses all the needs as identified in the future plans and implementation strategies?

Are there approved budgets in the MTEF allocations for all these projects?

- Is there a plan and budget for Operations and Maintenance for Water services and infrastructure?

- Is the water services programme financially viable w.r.t. Cost recovery, Metering and billing with an associated budget that is ring fenced?

Does the IDP address water resources development w.r.t. demand management, water balance issues and ecological reserve?

Are there specific references to the status of all contracting and licensing issues?

Does the IDP reflect the status of water quality monitoring w.r.t. drinking water quality, water resources quality and WWTW releases?

- Is there a plan and budget for Operations and Maintenance for sanitation services and infrastructure?

1. WSDP ADOPTION STATUS

Status	Modules: All/1/2/3 or 4	Date Submitted
Interim	Module1	15 March 2010
Draft	Module1	15 March 2010
Adopted		
Annual Review		
Public Viewed		

[Link to Topic 1 page 1 in WSDP Module 1](#)

2. KNOWLEDGE OVERVIEW

2.1. DEMOGRAPHICS

Number of People	102560
Total Number of Settlements	16
Total Number of People: Urban	66062
Total Number of People: Rural	36498
Total Number of Settlements: Urban	14
Total Number of Settlements: Rural	2

[Link to Page IV in WSDP Module 1](#)

2.2. ASSOCIATED SERVICES

Public amenities consumer types	Type	No. Of consumer units (HH)	No. Of consumer units with access to:				
			None or inadequate Supply		Communal supply	Controlled volume supply	Uncontrolled volume supply
			Water	Sanitation			
Police Stations	Urban	4	0	0	0	0	4
	Rural		0	0	0	0	
Magistrate offices	Urban	133	0	0	0	0	133
	Rural		0	0	0	0	
Businesses	Urban	705	0	0	0	0	705
	Rural		0	0	0	0	
"Dry" Industries	Urban	11	0	0	0	0	11
	Rural		0	0	0	0	
Office Buildings	Urban		0	0	0	0	
	Rural		0	0	0	0	
Prisons	Urban	2	0	0	0	0	2
	Rural		0	0	0	0	
Schools	Urban	67	0	0	0	0	67
	Rural		0	0	0	0	
Hospitals	Urban	25	0	0	0	0	25
	Rural		0	0	0	0	
Clinics	Urban	14	0	0	0	0	14

	Rural		0	0	0	0	
"Wet" Industries	Urban	13	0	0	0	0	13
	Rural		0	0	0	0	

[Link to Topic 3 Page 7 in WSDP Module 1](#)

2.3. BACKLOGS: WATER NEED DESCRIPTION & STATUS OF SUPPLY

Water Priority	Water Need Description	Settlements	Population	Households
Definition 1	No Water Services	1	2208	552
Definition 2	Inadequate RDP Infrastructure Need: Extension Required	2	2844	711
Definition 3	Inadequate RDP Infrastructure Need: Upgrade Required	0	0	0
Definition 4	Inadequate RDP Resource Need	0	0	0
Definition 5	Inadequate RDP Management Need: O&M Required	0	0	0
Definition 6	Inadequate RDP Management Need: Refurbishment Required	0	0	0
Definition 7	Inadequate Housing Interim Solutions	0	0	0
Definition 8	Inadequate Housing Permanent Solutions	9	21055	5263
Adequate:	Standpipe	18	76454	19124
Adequate:	Yard Connection			
Adequate:	House Connection			
TOTALS		18	76454	19124

[Link to Page IV & Topic 3 Page 5 in WSDP Module 1](#)

2.4. PLANNING STRATEGIES FOR INADEQUATE SUPPLIES

Water Priority & Levels of Supply		Future Plan to address the issue		Future Strategy to address the issue	
Water Priority	Water Need Description	In Place?	Sufficient?	In Place?	Sufficient?
Definition 1	No Water Services	Y	Y	Y	Y
Definition 2	Inadequate RDP Infrastructure Need: Extension Required	Y	Y	Y	Y
Definition 3	Inadequate RDP Infrastructure Need: Upgrade Required	N/A	N/A	N/A	N/A
Definition 4	Inadequate RDP Resource Need	N/A	N/A	N/A	N/A
Definition 5	Inadequate RDP Management Need: O&M Required	N/A	N/A	N/A	N/A
Definition 6	Inadequate RDP Management Need: Refurbishment Required	N/A	N/A	N/A	N/A
Definition 7	Inadequate Housing Interim Solutions	Y	Y	N/A	N/A
Definition 8	Inadequate Housing Permanent Solutions	Y	Y	Y	Y

[Link to Page IV & Topic 3 Page 5 in WSDP Module 1](#)

2.5. FUTURE PLANS TO ADDRESS SERVICE DELIVERY & GROWTH AND DEVELOPMENT

Water Priority	Water Need Description	Are the future plans indicated in 2.4 sufficient to address service delivery at :		Do future plans cater for the Growth & Development strategy	Are these plans included in Module 3 of the WSDP <i>(Provide reference)</i>
		RDP LEVEL	HIGHER LEVEL		
Definition 1	No Water Services	Y	Y	Y	
Definition 2	Inadequate RDP Infrastructure Need: Extension required	Y	Y	Y	
Definition 3	Inadequate RDP Infrastructure Need: Upgrade required	N/A	N/A	N/A	
Definition 4	Inadequate RDP Resource Need	N/A	N/A	N/A	
Definition 5	Inadequate RDP Management Need: O&M required	N/A	N/A	N/A	
Definition 6	Inadequate RDP Management Need: Refurbishment required	N/A	N/A	N/A	
Definition 7	Inadequate Housing Interim Solutions	Y	Y	Y	
Definition 8	Inadequate Housing Permanent Solutions	Y	Y	Y	

[Link to section 1.1 in WSDP Module 1](#)

2.6. FREE BASIC WATER

Is there a Free Basic Services Policy in Place?: YES

Subsidy Targeting Approach	Current % of HH's requiring FBW	% of HH Targeted: Water	% of HH Targeted: Sanitation
Rising block tariff	100	100	N/A
Service level targeting	N/A	N/A	N/A
* Credits to Water account	N/A	N/A	N/A
* Credits to Sanitation account	N/A	N/A	N/A
* Number of units requiring free basic services (Water)	100	100	N/A
* Number of units requiring free basic services (Sanitation)	N/A	N/A	N/A
Number of units with access to free basic services	N/A	N/A	N/A

[Link to Topic 10 Page 33 in WSDP Module 1](#)

3. SECTOR INTEGRATION

Consultation and Integration with other Sector Plans to incorporate their needs

Sector	Interaction (None, Limited, Partial, Good, Excellent)
Agri-Culture	None
Mining	None
Tourism	Partial
Public Works programmes	
Other 1: IDP	Good
Other 2: SDF	Good
Other 3: Master Plans	Good
Other 4: ISP	Good

INTERACTION
To which extent has interaction taken place?
None - 0%
Limited - 10%
Partial - 30%
Good - 75%
Excellent - 90%

[Link to Topic 1 Page 3 in WSDP Module 1](#)

4. PROJECT LISTS

4.1. TOTAL NUMBER OF PROJECTS

Total number of projects	18
Total number of projects: Water	14
Total number of projects: Sanitation	4

4.2. LEVELS OF SERVICE

Total number of projects aimed at Basic Levels of Services	0
Total number of projects aimed at Higher levels of Services	0
Total number of projects aimed at System Improvement	18

4.3. POPULATION BENEFITTING

	Water	Sanitation
Basic Levels of Services	0	0
Higher levels of Services	0	0
System Improvement	322269	42268

4.4. FUNDING SOURCES (RM)

MIG	9.944
RBIG	0
ACIP	0
DROUGHT RELIEF	0
MUNICIPAL INTERVENTION	0
DWA	0

Own/Other	0
TOTAL	9.944

4.5. DETAIL PROJECT LISTS

Description		Services Type	Programme type	Project Primary Class	Proposed project funding (RM)		
					09/10	10/11	11/12
Project number	Name & Description	W: Water S: Sanitation	Water Services WIB: Internal Bulk WRB: Regional Bulk WT: Treatment WWT: Waste Water Treatment WR: Reticulation SS: Sanitation Service H: Housing O: Other	B - Basic H - Higher S - System Improvement	Total	Total	Total
BR0910004	Bonnievale: Upgrading of WTW's (BC0840/W/09/11)	Water	WS: SW, Purific	System Improvements	0.00	4.80	0.00
BR0708009	Montagu: Ashbury: New Reservoir (WC0529/S/07/09)	Water	WS: Internal Bulk	System Improvements	0.00	0.00	0.00
BR0809002	Upgrading of sewerage rising main - Nkqubela	Sanitation	Sanitation Services	System Improvements	0.00	0.00	0.00
BR0809001	Upgrading of existing sewer network Robertson	Sanitation	Sanitation Services	System Improvements	0.00	0.00	0.00
BR0809004	Sand filters water treatment work Ashton	Water	WS: SW, Purific	System Improvements	0.00	0.00	4.68
BR0809011	Upgrading of existing water treatment Network Robertson	Water	WS: SW, Purific	System Improvements	0.00	0.00	0.00
BR0809006	Replacement of water valves	Water	WS: Reticulation	System Improvements	0.00	0.00	0.00
BR0809009	Upgrading of water network McGregor	Water	WS: Reticulation	System Improvements	0.00	0.00	0.00
BR0809014	Mcgregor Water treatment and reservoir (WC0606/W/08/10)	Water	WS: SW, Purific	System Improvements	3.15	0.00	0.00
BR0809013	Replacement of water Valves Zolani	Water	WS: Reticulation	System Improvements	0.00	0.00	0.00
BR0809010	Upgrading of Montagu WTWs (WC0732/W/09/10)	Water	WS: SW, Purific	System Improvements	2.95	3.55	0.00
BR0910005	McGregor sewer reticulation	Sanitation	Sanitation Services	System Improvements	0.00	4.50	1.50
BR0910006	Replacement of water pump line to reservoir	Water	WS: Internal Bulk	System Improvements	0.00	0.40	0.00
BR0910007	Replacement and upgrading of water network: Langeberg (WC0718/W09/10)	Water	WS: Reticulation	System Improvements	1.99	3.08	1.23
BR0910008	McGregor geophysics investigation Dam Linkage	Water	Other	System Improvements	0.00	0.10	0.00
BR0910009	Replacement of pump line to Ashton reservoir	Water	WS: Internal Bulk	System Improvements	0.00	0.35	0.00
BR0910002	Montagu: Bulk Water Supply Ph 2&3 (0186/W/05/07)	Water	WS: Internal Bulk	System Improvements	1.00	6.93	0.00
BR0910003	Ashton: Upgrade Waste Water Treatment Works (0208/S/05/07)	Sanitation	Sanitation Services	System Improvements	0.86	0.55	0.00

[Link to Topic 13 Page 41 – 43 \(optional\) in WSDP Module 1](#)

4.6. APPROVED BUDGETS IN THE MTEF ALLOCATIONS

Are there approved budgets in the MTEF allocations for all these projects?

Income Subsidies From:	Housing	Trading Services							Grand Total
		Environmental Protection	Waste Management (solid waste)	Waste water management	Road transport	Water	Electricity	Other Trading Services	
		RM	RM	RM	RM	RM	RM	RM	
National Government									
Provincial Government									
Local Government									
Other									
Grants (including the equitable share) from:									
National Government									
Provincial Government									
Local Government									
Other									
Spent conditional grants									
Metering & Billing Income									
Other Income									
Deficit									
Total Income									

[Link to Topic 10 Page 30 in WSDP Module 1](#)

5. PREPARATION & MAINTENANCE

Is there an Operation & Maintenance Plan in place?: YES

5.1. WATER SERVICES INFRASTRUCTURE:

Existing Groundwater Infrastructure

Staff to perform the function	Information not included in the WSDP	<ul style="list-style-type: none"> Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required
Budget to perform the function		
Sufficient for:		
RDP		
Higher level services:		
the Growth & Development Strategy of the WSA:		

Existing Surface water Infrastructure

Staff to perform the function	Information not included in the WSDP
Budget to perform the function	
Sufficient for:	
RDP	
Higher level services:	
the Growth & Development Strategy of the WSA:	

Existing Water Treatment Works Infrastructure

Staff to perform the function	Information not included in the WSDP
Budget to perform the function	
Sufficient for:	
RDP	
Higher level services:	
the Growth & Development Strategy of the WSA:	

Existing Pump Station Infrastructure

Staff to perform the function	Information not included in the WSDP
Budget to perform the function	
Sufficient for:	
RDP	
Higher level services:	
the Growth & Development Strategy of the WSA:	

Existing Bulk Pipeline Infrastructure

Staff to perform the function	Information not included in the WSDP
Budget to perform the function	
Sufficient for:	
RDP	
Higher level services:	
the Growth & Development Strategy of the WSA:	

Existing Tower & Reservoir Infrastructure

Staff to perform the function	Information not included in the WSDP
Budget to perform the function	
Sufficient for:	
RDP	
Higher level services:	
the Growth & Development Strategy of the WSA:	

[Link to Topic 6 Page 14 - 17 in WSDP Module 1](#)

6. FINANCIAL VIABILITY, INCOME, METERING & BILLING

6.1. Residential: Water

	URBAN	RURAL
Units Supplied	N/A	No metering and billing takes place.
Metered %	100	
Billed %	100	
Not Metered	0	
Income Received %	88	
Non Payment %	12	

[Link to Topic 10 Page 34 in WSDP Module 1](#)

6.2. Industrial: Water

	URBAN	RURAL
Units Supplied	N/A	No metering and billing takes place.
Metered %	N/A	
Billed %	N/A	
Not Metered	N/A	
Income Received %	N/A	
Non Payment %	N/A	

[Link to Topic 10 Page 34 in WSDP Module 1](#)

6.3. Commercial: Sanitation

	URBAN	RURAL
Units Supplied	N/A	No metering and billing takes place.
Metered %	N/A	
Billed %	100	
Not Metered	100	
Income Received %	74	
Non Payment %	26	

[Link to Topic 10 Page 35 in WSDP Module 1](#)

6.4. Industrial: Sanitation

	URBAN	RURAL
Units Supplied	N/A	No metering and billing takes place.
Metered %	N/A	
Billed %	N/A	
Not Metered	N/A	
Income Received %	N/A	
Non Payment %	N/A	

[Link to Topic 10 Page 35 in WSDP Module 1](#)

7. WATER RESOURCE DEVELOPMENT

7.1. Water resources development w.r.t. demand management, water balance issues and ecological reserve?

Is there Water conservation and demand management strategy in place?:	YES
Is there Budget to perform the function	YES
Sufficient Personnel perform the function	YES
Adequate for Higher Level Services	YES
Does the municipality have a strategy in place to meet 2014 targets?	YES

7.2. WATER RESOURCE MANAGEMENT

Conjunctive use of surface – and groundwater (Number of settlements)

Ground Water	0
Surface Water	0
Conjunctive Use	0

[Link to Topic 8 Page 22 in WSDP Module 1](#)

7.3. WATER BALANCE & LOSSES

Water Losses (%)

Raw Water Bulk Loss	Unknown
Treated Water Loss :Bulk	Unknown
Treated Water Loss :Internal	Unknown

[Link to Topic 8 Page 24 in WSDP Module 1](#)

Water Balance (Volume Units in Mℓ/d)

Bulk	Unknown
Usage	Unknown
Discharged	Unknown
Balance value	

[Link to Topic 8 Page 24 in WSDP Module 1](#)

8. CONTRACTING & LICENSING

References to the status of all contracting and licensing issues

FUNCTIONS	% in place
GENERAL FUNCTIONS	100%
BULK & RETAIL FUNCTIONS	100%
WATER SERVICES PROVIDERS	100%

[Link to Topic 11 Page 37 – 38 in WSDP Module 1](#)

8.1. Contracting issues

GENERAL FUNCTIONS	Policy in Place	Budget to perform the function	Personnel to perform the function	Gazetted	Council approved	Adequate for Basic Services
Policy development						
Indigent Policy	Y	Y	Y	N	Y	Y
Free basic water policy (including equitable share)	Y	Y	Y	N	Y	Y
Free basic sanitation policy	Y	Y	Y	N	Y	Y
Procurement policy	Y	Y	Y	N	Y	Y
Credit control & debt collection policy	Y	Y	Y	N	Y	Y
Regulation and tariffs						
Water Services bylaws with conditions as required by the Water Services Act	Y	Y	Y	N	Y	Y
Mechanisms to ensure compliance with bylaws	Y	Y	Y	N	Y	Y
Tariff structure	Y	Y	Y	N	Y	Y
Tariffs promulgated	Y	Y	Y	N	Y	Y

Water Services Providers	Name	Contract type	% Consumers served by the WSP
Retail water	Breede Valley Local Municipality	N/A	Urban Only
Sanitation	Breede Valley Local Municipality	N/A	22

[Link to Topic 11 Page 37 – 38 in WSDP Module 1](#)

8.2. Licensing issues

CURRENT Water sources	Number of sources	Current abstraction (Mm ³ /A)	Licensed abstraction (Mm ³ /A)	Community water supply	
				Rural	Urban
Groundwater	3	259	836	N/A	N/A
Surface Water	6	14108	15011	N/A	N/A
External Sources (Bulk purchase)	0	0	0	N/A	N/A
Water returned to source	2	4025	Unk	N/A	N/A

FUTURE Water sources	Number of sources	Current abstraction (Mm ³ /A)	Licensed abstraction (Mm ³ /A)	Community water supply	
				Rural	Urban
Groundwater	3	259	836	N/A	N/A
Surface Water	6	14108	15011	N/A	N/A
External Sources (Bulk purchase)	0	0	0	N/A	N/A
Water returned to source	2	4025	Unk	N/A	N/A

[Link to Topic 9 Page 26 in WSDP Module 1](#)

9. QUALITY & MONITORING

9.1. MONITORING

% Compliance to drinking water acceptable limits 100%

% Compliance to effluent release acceptable limits 89.3%

9.2. WATER QUALITY

Is there a Water Quality Plan in Place YES

WATER QUALITY	% or Number of / Yes No	Policy in Place	Budget to perform the function	Personnel to perform the function	Gazetted	Council approved	Adequate for Basic Services
Reporting on quality of water taken from source: urban & rural	Y	Y	Y	Y	N	N	Y
Quality of water returned to the resource: urban	Y	Y	Y	Y	N	N	Y
Quality of water returned to the resource: rural	Y	Y	Y	Y	N	N	Y
Is there a Pollution contingency measures plan in place?	N	Y	Y	Y	N	N	Y
Quality of water taken from source: urban - % monitored	Y	Y	Y	Y	N	N	Y
Quality of water taken from source: rural - % monitored	Y	Y	Y	Y	N	N	Y
Quality of water returned to the source: urban - %	Y	Y	Y	Y	N	N	Y
Quality of water returned to the source: rural - %	Y	Y	Y	Y	N	N	Y
Are these results available in electronic format? (Yes/no)	Y	Y	Y	Y	N	N	Y
% Time (days) within SABS 241 standards per year	95	Y	Y	Y	N	N	Y

[Link to Topic 9 Page 27 in WSDP Module 1](#)