# Water Infrastructure Status & Intervention Plans

# THABO MOFUTSANYANE DISTRICT MUNICIPALITY

# March 2012





# Water Services Status & Intervention Plans



# **Purpose of Document**

The purpose of the document is to provide a Provincial Summary on issues relating to the Water Services Development Plan (WSDP). The issues that were focussed on, for the purpose of this document, include Demographics, Water & Sanitation Needs, Associated Services, Water Resource Management, Conservation Demand Management, Iniatives & Goals, Gap Analysis and High Priority Target Areas.

# **Background to Reference Framework**

District and Local Municipalities (DM, LM) acting as Water Services Authorities (WSA) must manage and maintain water services in their area of jurisdiction. In order to develop a sufficient strategy to manage these services WSDP's were drawn up for the WSA's providing statistics on users and their requirements as well as five year guidelines for implementing water services projects and management of these services. Completed WSDP's were approved by the WSA's as their five-year plan and submitted to the Department of Water Affairs (DWA). The Department has to evaluate the content of the WSDP's and align Macro Planning with activities outlined in the WSDP's. In order to evaluate the WSDP's the Department needs a Reference Framework (RF) document addressing the same issues outlined in the WSDP guideline from the Department perspective. The RF documents can also be utilised to provide strategic support and information to Local Government and Water Services Providers to assist in strategic planning and daily functions. The RF was developed by utilising the Directorate Macro Planning and Information Systems GIS data to compile base maps to address specific topics. Provincial Water Services Planning Teams (PSP's) were appointed to utilise their knowledge and experience in a specific WSA to address the information requirements. Information gathered within the process will feed to a national information system in order to create RF documents that reflect information on a provincial and national level.

# Acknowledgements

Joint Study by:

DEPARTMENT OF WATER AFFAIRS Directorate: Planning & Information FC van Zyl (Director) S Marais (National Coordinator)

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# Water Services Status & Intervention Plans

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## 1. INTRODUCTION TO THABO MOFUTSANYANE DISTRICT MUNICIPALITY

1.1 Locality in the Free State Province

Free State Province has the following five (5) District Municipalities (DM s).

- Xhariep DM
- · Lejweleputswa DM
- Thabo Mofutsanyane DM
- Fezile Dabi DM
- Mangaung MM

The Thabo Mofutsanyane District Municipality has the following six (6) Local Municipalities.

- Phumelela LM
- Maluti a Phofung LM
- Nketoana LM
- Dihlabeng LM
- Setsoto LM
- Mantsopa LM

The main towns within the district are Vrede, Memel, Warden, Reitz, Petrus Steyn, Lindley, Arlington, Bethlehem, Harrismith, Kestell, QwaQwa, Clarens, Fouriesburg, Rosendal, Senekal, Marquard, Ficksburg, Clocolan, Excelsior, Ladybrand, Thaba Nchu and Tweespruit.

#### Pages 01 and 02 In section 2 provides detail information on settlement distribution and population figures.

There are approximately 86 6538 people residing within ± 23 1928 households which occupies approximately 103 communities. The DM consists of 56 urban settlements (22 formal towns and 34 former townships), some Squatter Camps, 33 rural settlements and a few farming settlements spread throughout the district. The District Municipality spans over an area of +/- 33,269km<sup>2</sup> which equates to 25.82% of the overall Free State Province.

The age and gender profile already gives an indication that men seek work outside the District Municipality and Province. The male/female split is 46.75/53.25 this indicates permanent labour migration (most likely to the Welkom area and Gauteng province). Vacation migration takes place back into the district this requires additional capacity in the water services infrastructure. Migration from Lesotho through the Thabo Mofutsanyane District creates social and economic problems.

Thabo Mofutsanyane District shares international borders with Lesotho. The other borders are with Kwazulu Natal Province, Mpumalanga Province, Mangaung Metropolitan, Lejweleputswa District and Fezile Dabi District.

Thabo Mofutsanyane DM accounts to approx 29.5% of the Free State economy. The unemployment rate is approximately 13.5%. The economy of Thabo Mofutsanyane is made up of trade, manufacturing, agriculture and construction.



# 2. WATER SERVICES PROFILE

The DM has Water Service Authority Status and is therefore responsible to provide efficient, effective and sustainable water services to the people within their area of jurisdiction.

The accepted minimum levels of service provision as prescribed by the Reconstruction and Development Programme (RDP) are:

#### Water

- A minimum availability of 25l/capita/day,
- A minimum flow rate of 10l/minute,
- A maximum walking distance of 200m to the nearest tap.

Water must meet SABS 0284 quality standards in terms of chemical content, microbial content, taste, colour and appearance and a guaranteed assurance of water of more than 98% of the year.

#### Sanitation

Individual households to have access to a Ventilated Improved Pit (VIP) latrine as the minimum standard in human sanitation requirements; and a maximum walking distance of 50m from the homestead to the closest sanitation facility.

The level of hardship figures for water services can be defined as water and sanitation services not meeting **all** of the basic RDP criteria mentioned above. Further to this, the DWA Directorate Planning and Information has prepared a Topic Extract on Water Backlog Eradication Strategy for every Water Services Authority and should be read supplementary to this document. The hardship within the DM is discussed in more detail in the paragraphs here after.

### 2.1 Water Supply Needs

The service level profile of the District Municipality shows significant progress in the provision of basic services for water. Adequate service levels have so far reached about 213 252 households which represents 91.9% of the population for water to at least within 200m. This leaves a gap of 8.1% water backlog. The backlog is a combination of infrastructure provision (capital works) as well as operational/management aspects. The critical shortage of O&M funds and adequate staffing result in systems not being maintained and operated efficiently.

The uncontrolled higher levels of water use, vandalism, theft and unaccounted-for water cripples the water supply schemes. The water resources-, water services infrastructure-, upgrading-, refurbishment- and replacement needs are high due to higher levels of services required and expected by the water users.

Details on the water supply type per Settlement are tabled on pages 03 and 04. The District Municipality needs to integrate water related environmental issues in its integrated environmental management plans i.e. grey water management, threats of water pollution and other water resource related challenges. Refer to page 3 and 4 in section 2 for more details in this regard.

### 2.2 Sanitation Needs

The most urgent area for sanitation is access to basic safe sanitation structures. The sanitation backlog is for about 61511 households, ie about 26.5% of the population. The largest backlog is present in the urban and farming settlements this would be addressed by mostly new VIP structures and secondary by upgrading existing structures. The upgrading possibility may be problematic due to a view that such a household insisting on a new facility (as it is their right to have access to this).

The District Municipality is currently focusing on addressing backlogs for provision of basic service, but with a very small yearly budget. The extent of service level upgrading and covering full waterborne sanitation is currently confined to the settlements within the urban areas.

Details on the sanitation supply type per Settlement are tabled on pages 05 and 06. Refer to page 5 and 6 in section 2 for more details in this regard.

## 2.3 Water Services Schemes: Number, Type and Sophistication

There are approximately 25 surface- and groundwater schemes within the DM aiming to serve the people at RDP standard. The district is well developed with local to regional schemes which supply water through extensive bulk distribution systems. These systems usually obtain water from major dams in the area. The most recent development is the construction of the Dihlabeng BWS. Sterkfontein Dam BWS to Qwaqwa regional. Phumelela BWS & Setsoto bulk water supply projects. The smaller scheme areas are dependent on groundwater supply the minority of systems rely on wellfield type of development. Groundwater is a major contributor to water supply and needs to be managed properly.

There are 30 Water Treatment Works (WTW) (with some package plants which were only supposed to be a temporary measure) serving the major water schemes. There are 32 Wastewater Treatment Works (WWTW) within the DM (captured on the DWA/WSA database). Very few (if any) of these works have been accredited with blue or green drop certification and has reached a stage where substantial refurbishment is required to keep the schemes functional. The operation and maintenance of these schemes are also a problem due to a lack of capacity within the LM s.

Surface water as well as groundwater is the main water resources in the District Municipality. Without proper management, the resources will not be sufficient for the growing demand, especially in the urban areas.

Thabo Mofutsanyane DM has not attended to the development of water scheme technical development plans, for all areas within the DM. Although these development plans address most of the major scheme areas, some are dated and needs to be updated.

#### 2.4 Water Services Projects

The existing funding grants for the municipal capital projects and operating subsidies for water services are mainly funded by the Municipal Infrastructure Grant (MIG). The main objective of MIG is to assist WSAs by providing grant funding in removing the backlog concerning basic municipal services to poor households. The funding is allocated to the WSA, e.g. the LM. A complete water services project list is included within the latest LM WSDP. The RBIG funding has assisted in the development of the Dihlabeng, Phumelela, Maluti a Phofung & Setsoto LM areas.

The funding streams for infrastructure development over the next three years are tabled within Table 2.4: Funding Streams below:

### Table 2.4: Funding Streams

FUNDING STREAM	2011/2012	2012/2013	2013/2014
Municipal Infrastructure Grant	R 204 038 961.84	R 191 074 884.86	R 0
Regional Bulk Infrastructure Grant	R 115 782 056.00	R 100 620 000.00	R 118 180 000.00
Sanitation Human Settlement Grant	RO	RO	RO
Equitable Share (Infrastructure related services)	RO	RO	R0
Accelerated Community Infrastructure Programme	R 13 940 000.00	R 9 160 000.00	R0

The Topic Extract: Water Backlog Eradication Strategy for the DM has developed a basic cost benchmark for scheme development in the DM based on the availability of the water source and the number of households within a community. This resulted in basic scheme development cost per household as R10 000 for water and R9 500 for sanitation (sanitation capped by the subsidy amount).

This cost benchmark has assisted in determining the total funding allocation required to eradicate water services backlogs and whether the WSA will be able to meet the National water services targets of 2014 (for water supply) and 2014 (for sanitation provision). The amount required to eradicate the water supply backlog is approximately R2 652 million and for sanitation it is R1 184 million. The DM will definitely not meet the national millennium development targets of 2014 with the current funding allocations.. Further to this, the DWA: Directorate Planning and Information has developed a Regional Bulk Master Plan to provide a total perspective per WSA on their first order Regional Bulk Infrastructure requirements

#### Section 1: Executive Summary

### 2.5 Operational Issues (service quality, water quality, etc.)

Each LM is their own WSA, who is responsible for the water services policy development and project implementation, planning, regulations and Water Services Provider arrangements. The current capacity within the WSA is quite limited that results in poor service quality and operation and maintenance of schemes. Improvements can be made, in areas such as skilled process controllers, monitoring programme and drinking water compliance.

There are still notable challenges being faced by the DM, including waste water quality compliance and monitoring programme.

The challenge is dilapidated infrastructure and lack of qualified artisan and process controllers. Another challenge is inadequate budget to match the age of the infrastructure. Expansions in the towns took place without any expansions to the treatment works. In general all the water and waste water treatment works are overloaded.

The solution is to access to refurbishment and extension budget, estimated at R1 584 million for the entire district, and to budget for the recruitment of qualified Artisans and Process Controllers.

#### 2.5.1 Ability to Implement Capital Projects

Each LM within the DM receives the majority of their funding from the MIG and is implementing the programmes. Some management capacity to adequately monitor and manage the disbursement and implementation of this funding is lacking, but is not crippling the implementation process.

#### 2.5.2 Ability to Operate and Maintain Schemes

Each LM WSA is currently understaffed and requires skilled personnel to successfully fulfil its water services provision function. A huge capacity problem exists within the DM with respect to staff, appropriate skills and processes. A Section 78 was conducted during 2004. It is however recommended that a WSA evaluates their current WSP arrangements in order to assess the current staffing gaps with respect to skills, resources and processes. This will assist the WSA to identify the mechanism that should be implemented to deliver an effective and efficient service. Alternatively support needs to be provided to each WSA within the DM to implement processes for planning and operational issues.

#### 2,5.3 Ability to Ensure Effective Water Services are Progressively Provided in District Municipality

Each WSA within the DM is responsible for water services within their area of jurisdiction and is therefore required to prepare a Water Services Development Plan (WSDP) inclusive of a 5-year plan to eradicate water services backlogs. The WSA's needs to update the WSDP as there are still many gaps identified and planning is required to address these gaps. DWA is providing support to this process in terms of training, process facilitation, as well as monitoring and evaluation.

The overview assessment of the overall quantity (level of detail of the information) and quality (level of accuracy of information to meet the compliancy requirements) assessment of the current WSDP 2011 is illustrated overview Assessment for DM.

# 3. KEY ISSUES AND INTERVENTIONS

The main challenges that face DM in water services provision as per their IDP 2011/12 and confirmed not only in the overview provided above but also within their WSDP of 2011, are as follows:

- The settlements are spread over a vast geographical area which poses management and O&M difficulties,
- · Water resources are limited and users aspired higher levels of services,
- · High costs are involved to provide adequate water resources, bulk water distribution and water services infrastructure,
- · Cost recovery systems are not in place, a culture of free water is problematic in the District Municipality area,
- · There are high levels of un-accounted-for water and illegal connections,
- · Water Conservation and Demand Management systems are not in place,
- · There is an extent of water services backlogs,
- · Some infrastructure exceeded its design life,
- · In cases infrastructure capacity does not meet the infrastructure demand due to rapid and unplanned growth
- · Most schemes require refurbishment- and extension of infrastructure,
- WWTWs exceeding their design capacity and environmental pollution occurs.
- · Levels of vandalism and cable/engine theft occurs,
- · Shortage of skilled personnel that result on the poor maintenance of existing infrastructure,
- Low revenue generation that has an impact on the financial sustainability of the municipal water & sanitation service. The failure to impose cost recovery, together with poor cost recovery, have meant that the service is currently not generating sufficient revenue. This is also affected by inaccurate consumption data due to a lack of water meters, faulty meters and meters not being read in all areas.
- · Many consumers are unemployed and dependent on government grants.

#### 3.1 Access to Water and Sanitation

#### 3.1.1 Water Supply

The WSA's have indicated in their Services Level Policy that all farming communities will be served at RDP standards and urban areas will receive higher levels of service. Based on the backlog study mentioned in paragraph 3.4, the cost to eradicate backlogs and provide water at RDP standards, is R2 652 million. The expansion of regional scheme infrastructure is required to ensure sustainability of water resources.

#### 3.1.2 Sanitation

The WSA's have indicated in their Services Level policy that all farming communities will be served at RDP standards and urban areas will receive waterborne sanitation. Based on the backlog study mentioned in paragraph 3.4, the cost to eradicate sanitation backlogs is R1 184 million.

#### 3.2 Institutional Arrangements and Support

The lack of skilled staff also results in the provision of poor service quality. The WSA capacity Business Plan should be utilised to indicate which training and staff development programmes should be investigated to improve the capacity of the WSA. Specific support may relive pressures on current limited and low experienced staff, but also improve on the operational and maintenance aspects of regional and rudimentary schemes. Long term financial sustainability of the proposed scheme is heavily dependent on adequate levels of revenue collection and cost recovery. To ensure the long term sustainability of the scheme, revenue collection must be extended to cover all those households that use more than the designated free basic water allocation of 6 kf per household per month. One of the challenges faced by the District Municipality is the control of water losses. The unaccounted for losses are high and are made up of:

- Losses through leakages in the old infrastructure
- Unauthorized connections

#### Section 1: Executive Summary

Metered connections not being billed

#### 3.3 Implementation of Effective Water Conservation and Demand Management (WC&DM) and Other Programmes

The DWA is also currently providing WSDP support to Local Government and is part of the current WSDP enhancement process. The Support Team will ensure that all the linkages with other related planning activities are established as well as building the capacity of the WSA officials and politicians.

## 4. WATER RESOURCES

#### 4.1 Surface Water

One of the main challenges facing the supply of Surface Water will be to address the payment for services by end-users. There are a number of dams which are supplying their maximum allocated domestic yield. Dams like the Meulspruit Dam needs to be raized. Also new dam at Senekal is requested.

#### 4.2 Groundwater

The borehole yields in the District Municipality falls mostly within the 0 to 3.0 l/s range, and could supply quite a number of communities with safe potable water, provided that the water quality is within limits. The groundwater development should now concentrate on developing well fields instead of the closest potential borehole for individual village supply. Such an exploration programme could have a meaningful impact on the groundwater potential.

Groundwater should play a crucial role to augment surface water resources, especially during periods of drought, or as backup during periods of equipment failure of high demands on surface sources.

It is believed that an approach whereby surface and groundwater resource are planned and operated as a unit will ensure safe, potable and sustainable water supply to communities.

#### 4.3 Irrigation

Most irrigation is done for commercial farming. The developed commercial schemes are not operating to their potential

# 5. TRANSFER PROGRESS WATER SERVICES

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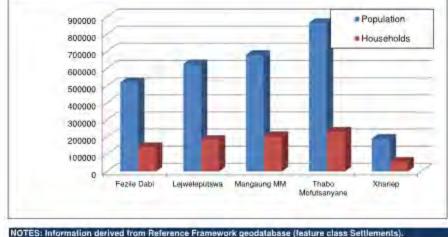
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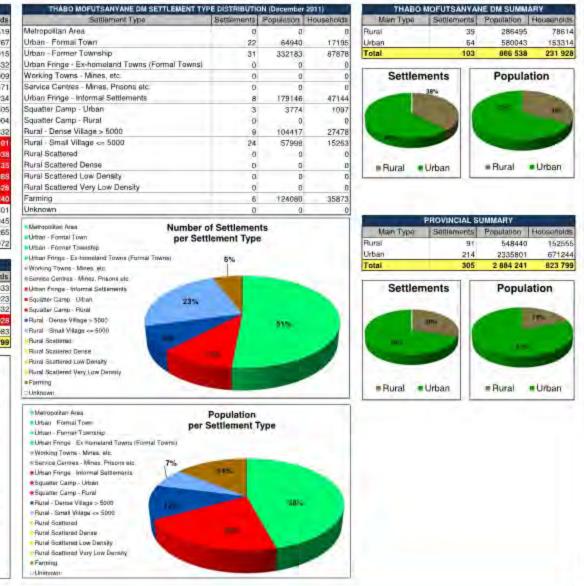
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DM MM	LW .	Settlements	Population	Households
Fezile Dabi	Mafube Local Municipality	9	68656	18519
Fezile Dabi	Metsimaholo Local Municipality	8	150132	43767
Fezile Dabl	Moghaka Local Municipality	7	170601	43015
Fezile Dabi	Ngwathe Local Municipality	14	130737	37632
Lejwelepulswa	Mastonyana Local Municipality-	13	69531	19909
Lejweleputswa	Matjhabeng Local Municipality	17	349987	109371
Lejweleputswa	Nala Local Municipality	5	106981	29234
Lejweleputswa	Tokologo Local Municipality	9	40475	) 1605
Lejweleputswa	Tswalopele Local Municipality	6	58935	14904
Mangaung MM	Mangalung Metropolitan Municipality	59	680441	206832
Thabo Moluisanyane	Dihlabeng Local Municipality.	15	126767	34101
Thabo Motutsanyane	Maluti a Photung Local Municipality	49	422500	111038
Thabo Mofutsanyane	Mantsopa Local Municipality	12	56128	15185
Thabo Molulsanyane	Nicetoana Local Municipality	9	70837	18985
Thabo Mofulsanyana	Phumeleta Local Municipality	8	56596	15426
Thabo Molusanyme	Setsoto Local Municipality	10	133690	37240
Xharlep	Kopanong Local Municipality	26	58693	18801
Xhariep	Letsemeng Local Municipality	13	50774	15045
Xhariop	Mohokare Local Municipality	7	49081	13265
Xhanep	Naledi Local Municipality	9	32679	9972

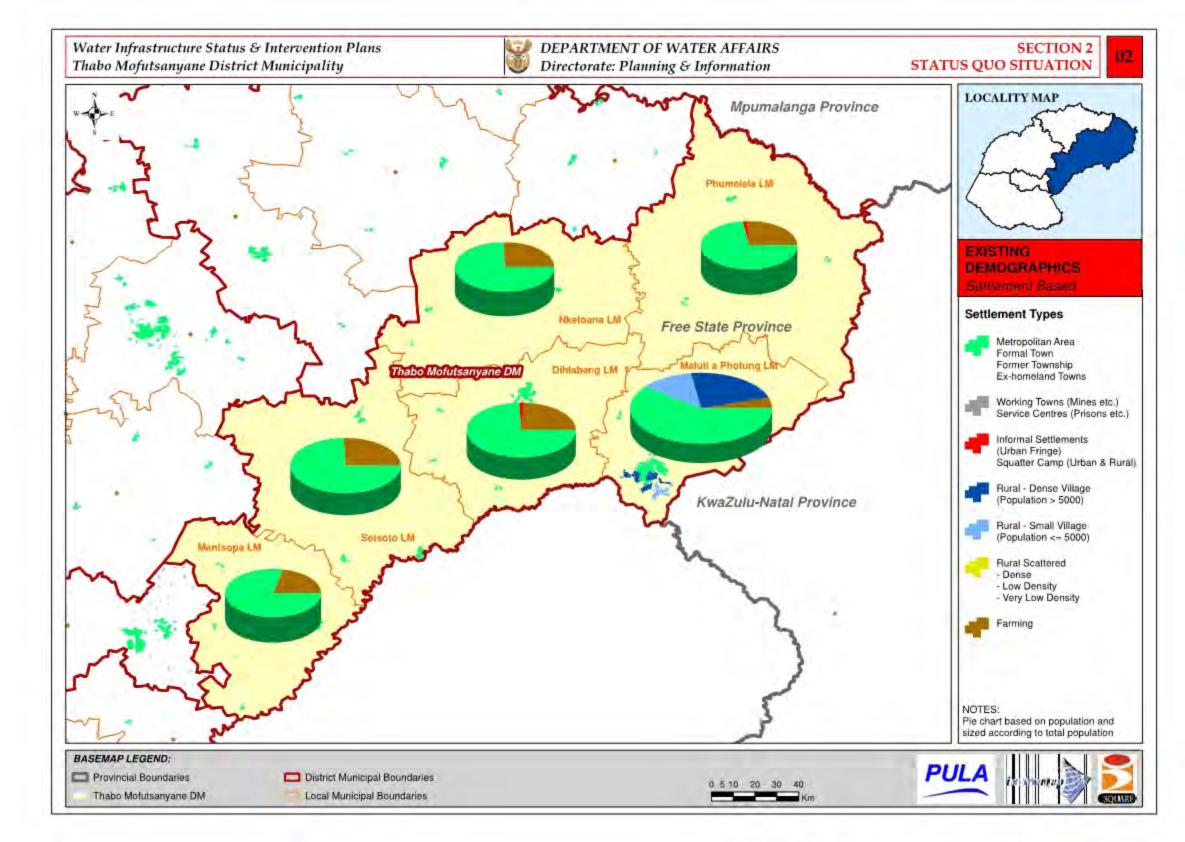
D	M SUMMARY		
DW/ MM	Settements	Population	Households
Fezile Dabi	38	520126	142933
Lejweleputswa	50	625909	185023
Mangaung MM	59	680441	206832
Thabo Motutsanyana	103	856538	231928
Xhariep	55	191227	57083
Total	305	2 884 241	823 799





#### **EXISTING DEMOGRAPHICS**

Settlement Based



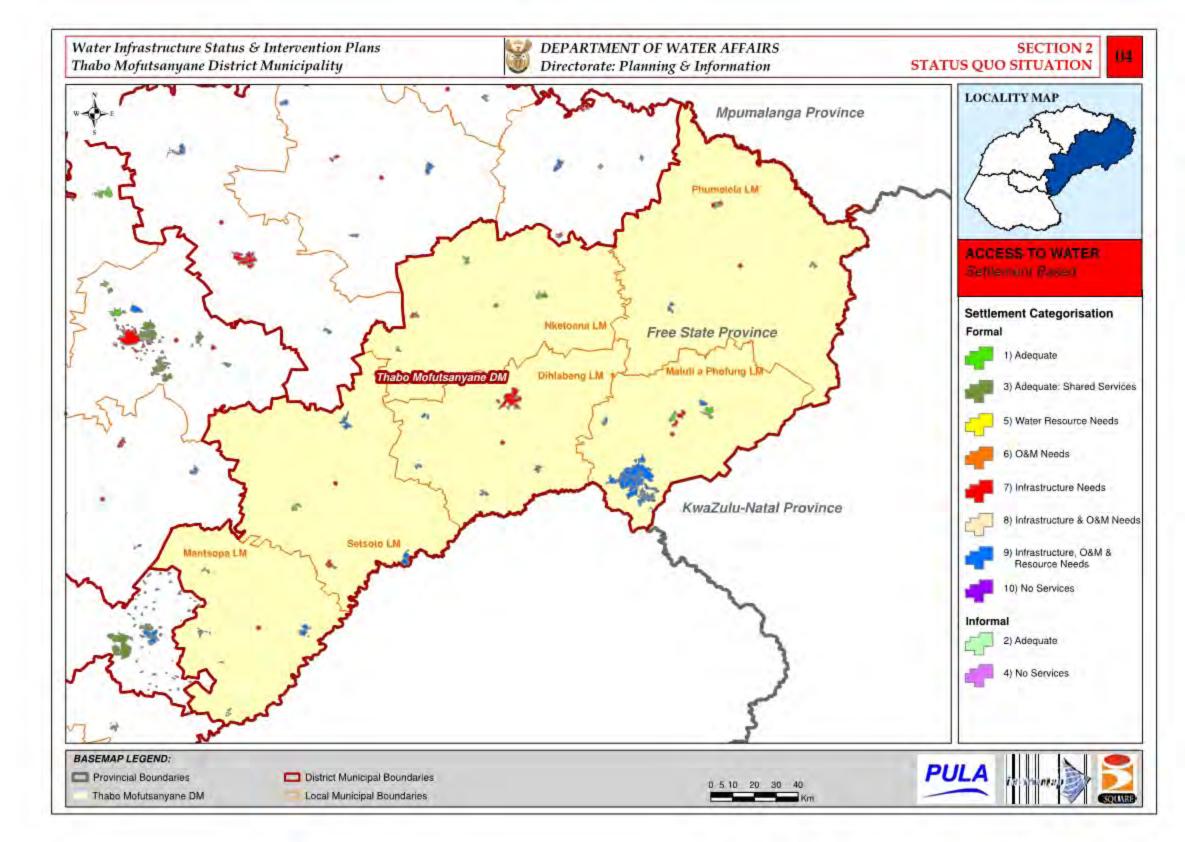
## EXISTING WATER NEEDS CATERGORISATION

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# SECTION 2 STATUS QUO SITUATION

03

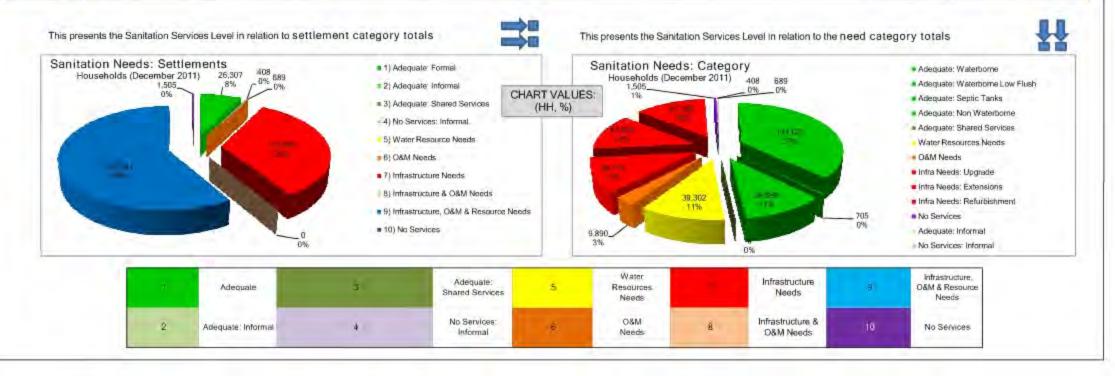
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10	55 116	15	50 745	14	0	0	16 254	4	134 900	36	13 060	3	43 148	12	18 130	5	42 148	11				_		
al per WSA	99 128		82 844		0	-	31 262			_			68 712		05 477			_		-		_	0	-
Water Ne	ts the Water Se eds: Settler Ids (December 2	ments 2011)	Level in rel	10 060 2%		t cate		te: Form	al		13 822 RT VALU (HH, %)	This	presents th Water I Househo	Veeds	35 177 Services : Catego :ember 201	Level in re	43 646 elation to t 097	he nee	o d cate	Adequ	1 097 tals uate: House uate: Yard C			
Water Ne	eds: Settler	ments 2011)	Level in ref	10 060		t cate	egory t ) Adequat 2) Adequat 3) Adequat 3) Adequat 4) No Serv 5) Water R 5) O&M Ne 5) O&M Ne 7) Infrastru 3) Infrastru	te: Form te: Inform te: Share icces: Infr lesource seds iccure Ne iccure & (	al mal ad Services ormal Needs		RT VALU	This	Water I Househo 35 177 2	Needs olds (Dec	Services	Level in re	elation to t 097 1%	he nee		Adequ     Adequ     Adequ     Adequ     Adequ     Adequ     Vater     O8M     Intra t     Intra t     Intra t	tals uate: House uate: Yard C uate: Stand uate: Share r Resources Needs Needs: Upg Needs: Exte Needs: Refu	Connectio Pipes d Service : Needs rade insions urbishiner	ans ns	

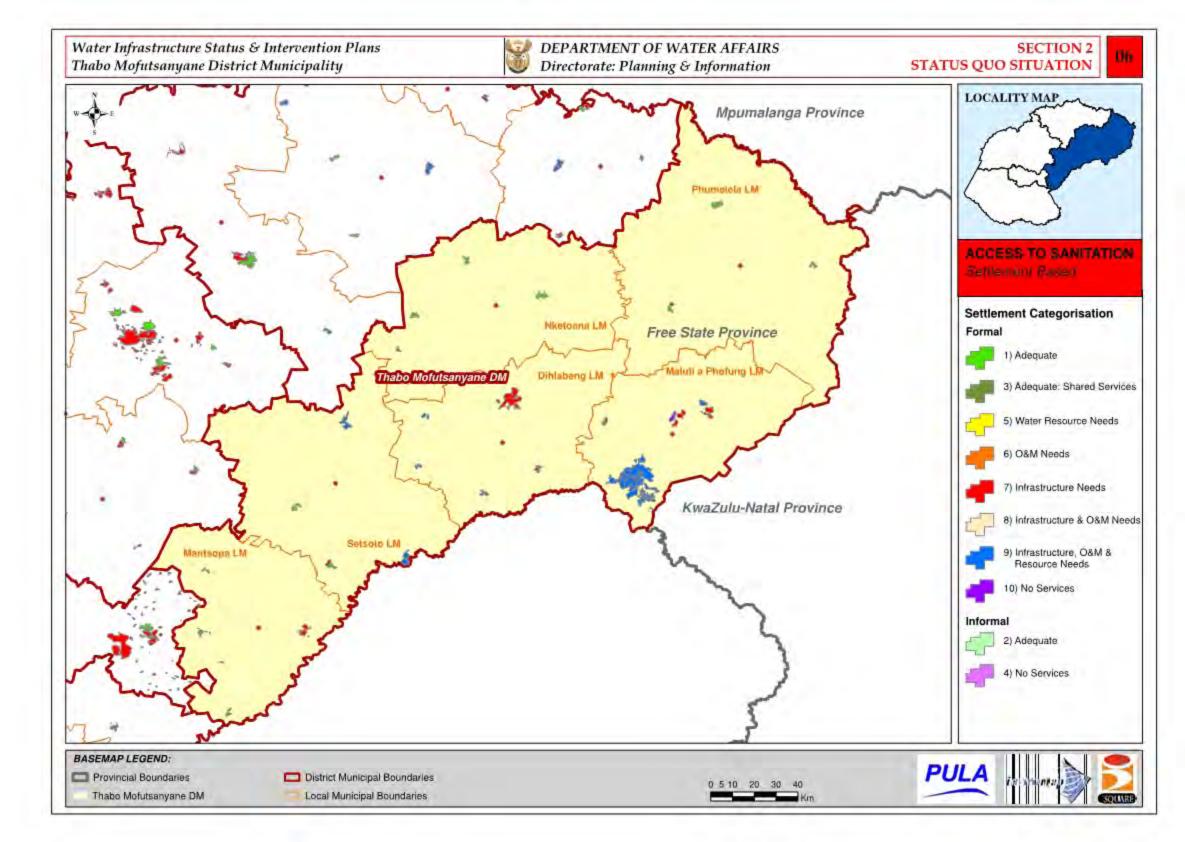


05

#### EXISTING SANITATION NEEDS CATEGORISATION Settlement Based

								FF	REE ST	TATE	PROVI	NCE: 1	HABO	MOFUT	SANYA	NE DN										
5	1										FC	RMAL	-	_										INFO	RMAL	
ation isatio					Admo	10m						ater		8M				ni (denni)							30.2	
Sanitation Categorisation	Winetin	10=	Vaarennen Flaa		and I	'soka	Name Ny Dist	moque.		anad Aices		eds	Ne	ede	Urge		Energ	u.e	<b>Path ske</b>	-	No Services	005	Adequate No Se		rvices	
0	чн	-	44	阳	нн	74	RH-	- 32-	HH	Ŧ	НН	%	HH	· · ·								-	HH	**	HH	%
	25,202	96	0	0	650	2	455	2	-	_	-				-		_						-	-		
2																							408	100	0	
4																									689	10
5																										
8																										
	29,159	25	0	0	.55	0	20,114	17	0	(	i.				17,740	15	33,040	28	18,192	15						
8		-																								
19	76,660	37	0	0	0	0	18,127	9	0	(	39,30	12 1	9 9,89	0 5	21,972	11	10,786	5	29,164	14						
																					1,505	100				
otal per DM	131.021		ò		705		38,696		0		39,302	61 ···	9,890	T = 1	39,712		43,826		47,356		1,505		408		689	



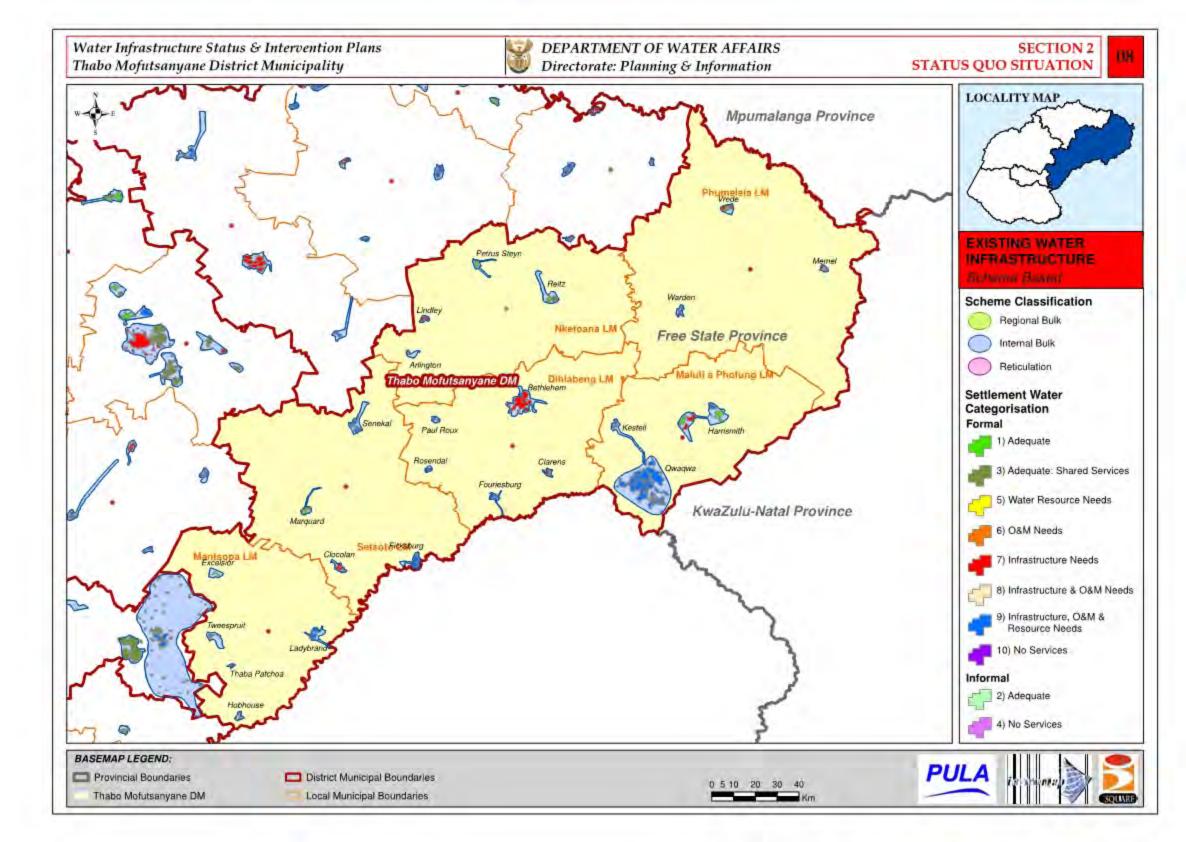


### EXISTING WATER INFRASTRUCTURE

Scheme Based

					REGI	ONAL E	BULK						INTER	RNAL E	IULK					RETICULAT	ION	
MM/DM	LM	Number of		т	otal Numb	per of Cor	mponents		Pipe	Number of	-	Te	otal Numb	er of Co	mponents		Pice	Number of	Tota	Number of C	omponents	Pipe
		Schemes	Pump	Reserv	WTW	WWTW	Boreholes	Abstractions Works	Length (km)	Schemes	Pump	Reser-	WTW	WWW	Barcholes	Abstraction	Pitie Length (km)	Schemes	Street Tapa	Erf	House	Length
Fezile Dabi	Mafube	0	0	0	0 0	0	0	0	0	4	6	7	4	6	.0	0	- 25	0	0		ũ.	0
ezile Dabi	Metsimaholo	0	0	0	0 0	0	N D	0	0	3	21	12	3	7	0	0	47	0	0		0)	0
ezile Dabi	Moghaka	0	0	0	0 0	0	0	0	34	3	36	17	3	5	0	0	94	0	0		0	0
ezile Debi	Nowatho	0	Û	6	0	0	0	0	5	5	19	19	4	5	0	0	-66	0	0		a)	0
elweleputswa	Maslonyana	0	0	0	) 0	0	0	0	53	5	12	14	4	7	4	0	-45	0	0		a	0
ejweleputswa	Mathabeng	0	σ	0		0	0	0	61	5	28	18	0	13		0	99	0	0		<i>a</i>	0
ejweleputswa	Naia.	0	Ú	é	0	ū	0	0	0	2	9	15	0	2	0	0	27	0	0		6	ù.
ejwelwputswa	Takologo	0	0	0	0 0	0	0	0	0	3	13	15	0	4	25	0	36	0	0		0	0
ejweleputswa	Tswelopele	0	0	0	0 0	0	0	0	0	2	10	6	2	2	0	0	58	ō	D	-	0	0
Mangaung Metropolitan Municipality	Mangaung	0	0	0	0 0	0	0	0	7	3	19	40	. 3	9	0	0	282	0	0		0	0 319
Thabo Molulsanyape	Dihiaberig		11		1 0					1 5	28	28			-0		54	- C			1	0
Thabo Mofutsanyane	Maluti e Photung	0	Ŭ.		1 0	6	1 10	6	22		58	65		7	0		286				4	
Thabo Motutsanyane	Mantsopa	5					6 - A		19			19		6			61				6 C	
Thate Motutsanyane	Histoane				1 0	. 0			26		10	10					- 24		-0		4	
Thate Molulanyana	Promotela.			1 C C			i - 0			1 3	15			- 4			25				4	
Thabo Molutsunyam:	Betscip	ő	Ō		) 0	0	0	0	64	4	28	13				ő	.51	. 0	0		0	
Xhariep	Kopanong	0	0	0	) 0	0	0	0	54	9	22	49	4	12	D	0	97	0	0		0	0
Xhariep	Letsemeng	0	0	0	0 0	0	0	0	5	5	7	21	- 4	- 6	0	0	20	0	0	)	á)	0
Xhanep	Mohokare	0	0	0	0 0	0	0	0	86	3	7	11	2	3	0	0	26	0	Ū.		<u>a</u>	0
Xhariep	Najedi	0	0	0	0	0	0	0	10	3	9	6	1	3	-12	0	22	0	0		0	0
Total for Province		0	0	0	0	0	0	0	454	80	365	389	64	116	57	0	1405	0	0	0	0	3198

1) Information derived from Reference Framework geodatabase (table XT01).



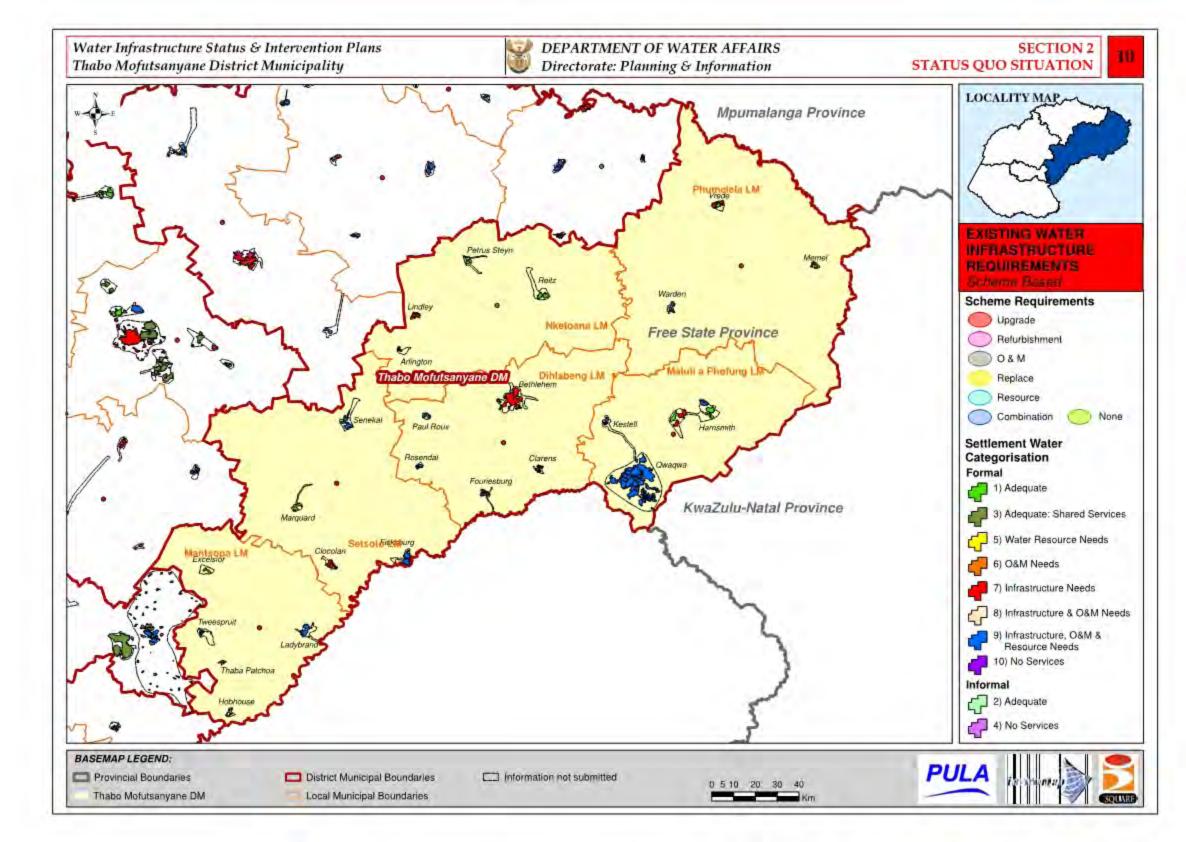
09

EXISTING WATER INFRASTRUCTURE REQUIREMENTS

Scheme Based

DEM	IOGRAPHICS (Dece	mber 2011)		BASIC SERVICES REQUIREMENTS													
MM/DM	LM	Tolal Population	Tolal Households	Affected Population	Alfected Households	Potential Cost (R)		Numb	er of Scheme	s with Required	Water Infrastru	cture					
							Upgrade	Refurbishment	Mao	Replace	Resource	Combination	None				
Fezile Dabi	Mafube	68,656	18,519	92,529	24,609	315,642,596	1					- 3					
Fezile Dab	Metsimaholo	150,132	43,767	60,444	15,823	149,633,425						1	2				
Fezile Dabi	Moghaka	170,601	43,015	199,374	47,470	180,382,468				1		2					
Fezile Dabi	Ngwathe	131,437	37,632	133,725	43,817	395,243,286						5					
Lejweteputswa	Masilonyana	69,532	19,909	76,052	25,693	190,572,621					3	2					
elweleputswa	Matjhabeng	349,987	109,371	68,259	21,331	898,397,907					1 million	3	3				
ejweleputswa-	Naka	106,961	29,234	3,612	931	50,386,314						- i -	1				
ejweleputswa	Tokologo	40,476	11,605	23,077	8,013	136,761,141					it.	2					
Lejweleputswa	Tswelopele	58,935	14,904	36,164	9,854	82,161,795	1				1						
Mangaung Metro	Mangaung Metro	680,385	206,820	275,793	87,001	776,299,022						3					
Thaten Mofulsanyane	Elihitsbeng	126,788	34,101	125.711	33,345	388,394,536						5					
Thaps Motolsanyans	Mehrill a Pholing	422,502	111,038	715,015	171,477	569,941,024											
Trabo Mofulsanyane	Mantesopa	56,181	15,148	77,784	23,013	213,792,424											
mano Motutsenyane	Nkelosna	70,837	18,988	14,237	4,563	101,180,725											
habo Mofutsanyane	Phumpinia	56,598	15,426	35.237	12,539	96,178,538											
Thebs Mofulsanyane	Setson	133,692	37,240	179,066	49,879	214,512,082											
Khariep	Kopanong	58,694	18,801	7,260	2,129	54,348,428	1			5		1	2				
Chariep	Letsenieng	51,183	15,148	49,729	15,024	204,011,222	1	-		-	1	2	1				
Chariep	Naledi	32,679	9,972	5,569	1,814	24,073,779					1	1	1				
(hariep	Mohokare	49,081	13,265	56,808	16,807	79,095,989	1					2					
Total for Province		2,885,355	823,903	2,236,446	615,132	R 5,121,019,322	5	0	0	6	9	44	17				





11

MM/DM	LM	Number of WTW's	Total Capacity ML/day	Number of WTW's with Insufficient Capacity	Number of WTW's in need of Refurbishment
Fezile Dabi	Mafube	4	23.16	3	
Fezile Dabi	Metsimaholo	3	55,614	1	
Fezile Dabi	Moqhaka	3	71.64	1	
Fezile Dabi	Ngwathe	4	23.72	3	
Lejweleputswa	Masilonyana	4	18.12	2	
Lejweleputswa	Tswelopele	2	12.8	0	
Mangaung Metropolitan Municipality	Mangaung	3	318	0	-
Thabo Mofutsanyane	Dihlabeng	6	45.1	3	
Thabo Mofutsanyane	Maluti a Phofung	5	34.6	0	
Thabo Mofutsanyane	Mantsopa	5	14.552	.2	
Thabo Motutsanyane	Nketoana	5	16.25	3	
Thabo Mofutsanyane	Phumeleta	3	12.79	2	
Thabo Mofutsanyane	Setsoto	6	41.562	-2	
Charlep	Kopanong	4	18,62	0	
Charlep	Letsemeng	4	7.664	1	
Khariep	Mohokare	2	2.75	1	
Kharlep	Naledi	1	0.1	0	
Total for Province	and the second	64	717.04	24	25

Prime Condition

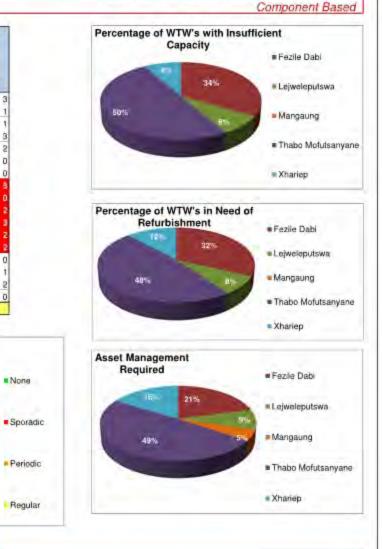
Operational

Vandalised

Dysfunctional

Incidents

100%



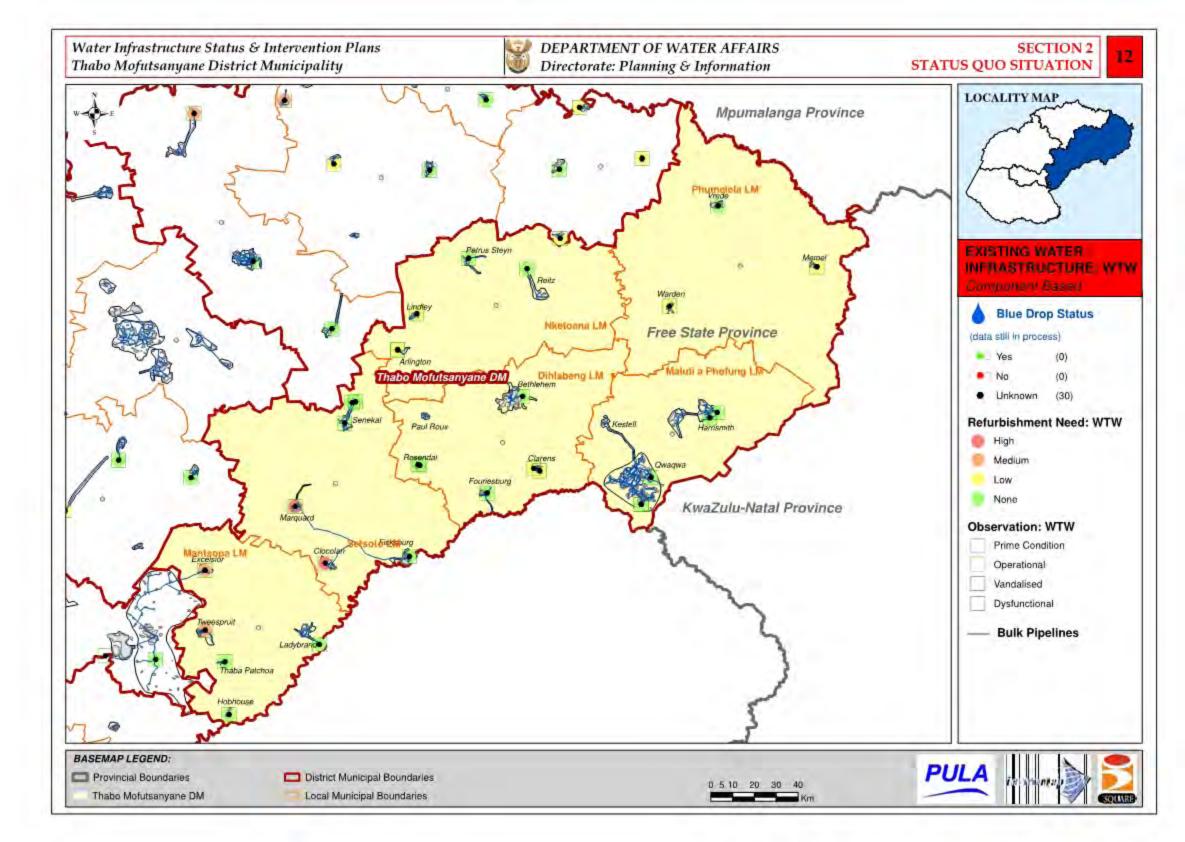
EXISTING WATER INFRASTRUCTURE: WTW

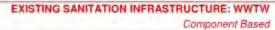
# .

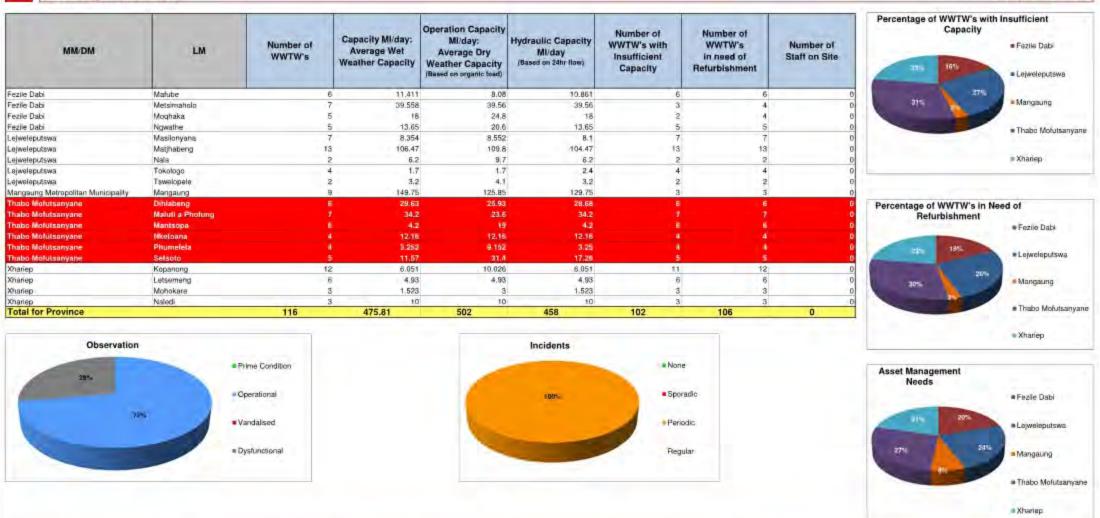
1) Information concerning capacity of WTW and Number of Staff on Site is completed as available. 2) Information derived from Reference Framework geodatabase (feature class WTW).

Observation

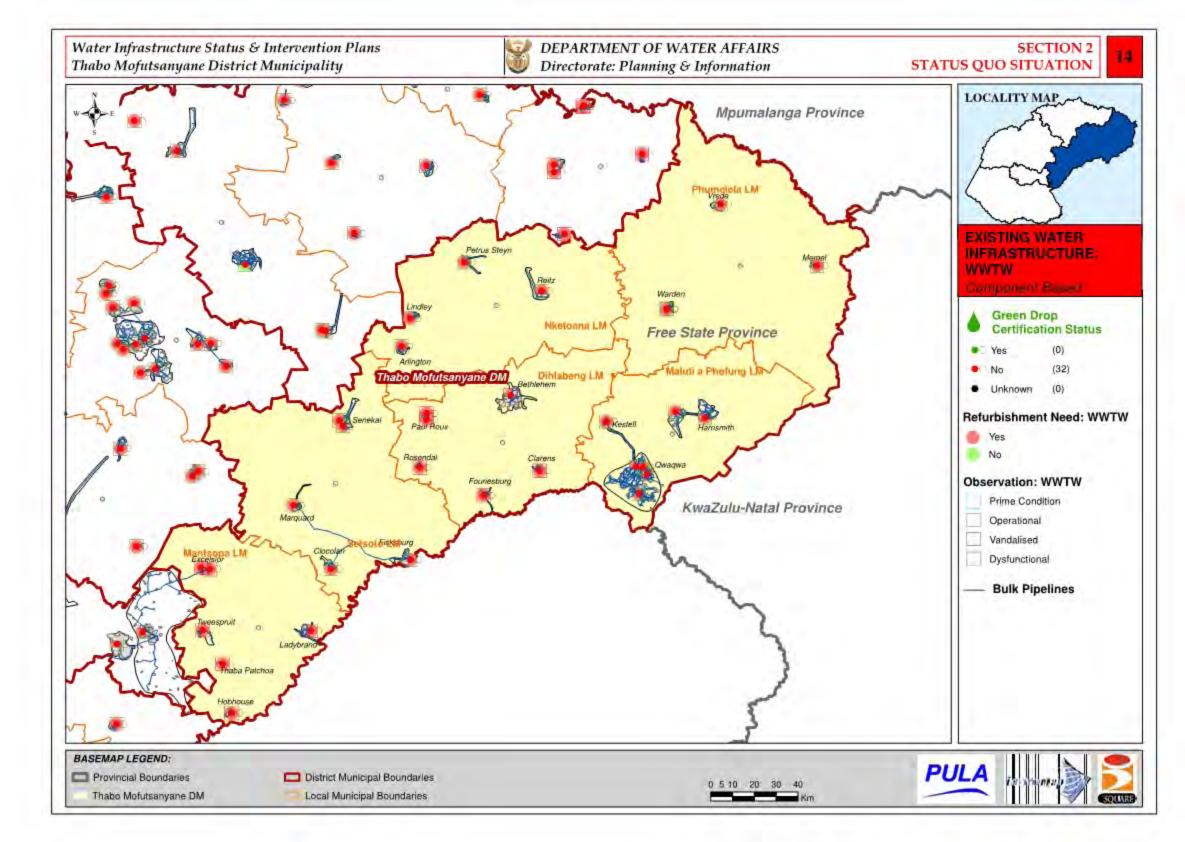
NOTES:







NOTES:1) Information concerning capacity of WWTW and Number of Staff on Site is completed as available.2) Information derived from Reference Framework geodatabase feature class WWTW

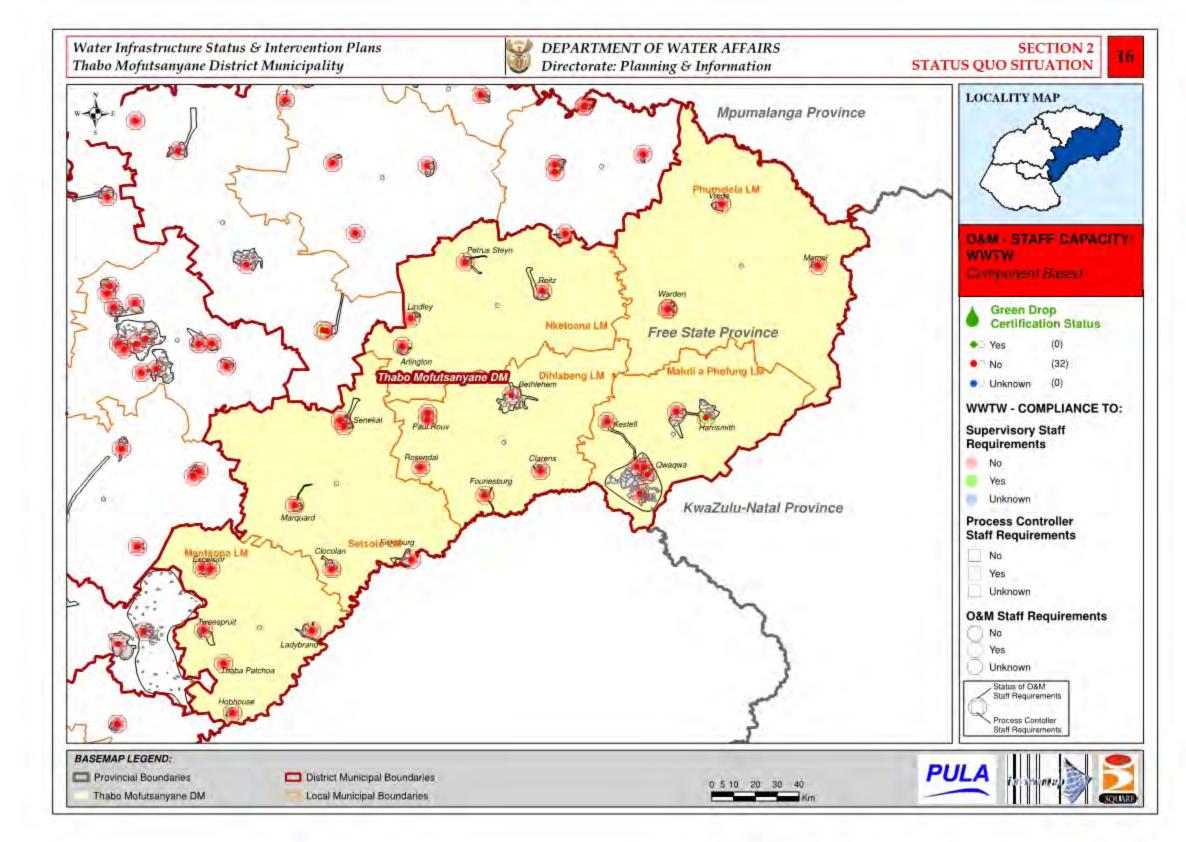


#### **O&M STAFF CAPACITY: WWTW**

Component Based

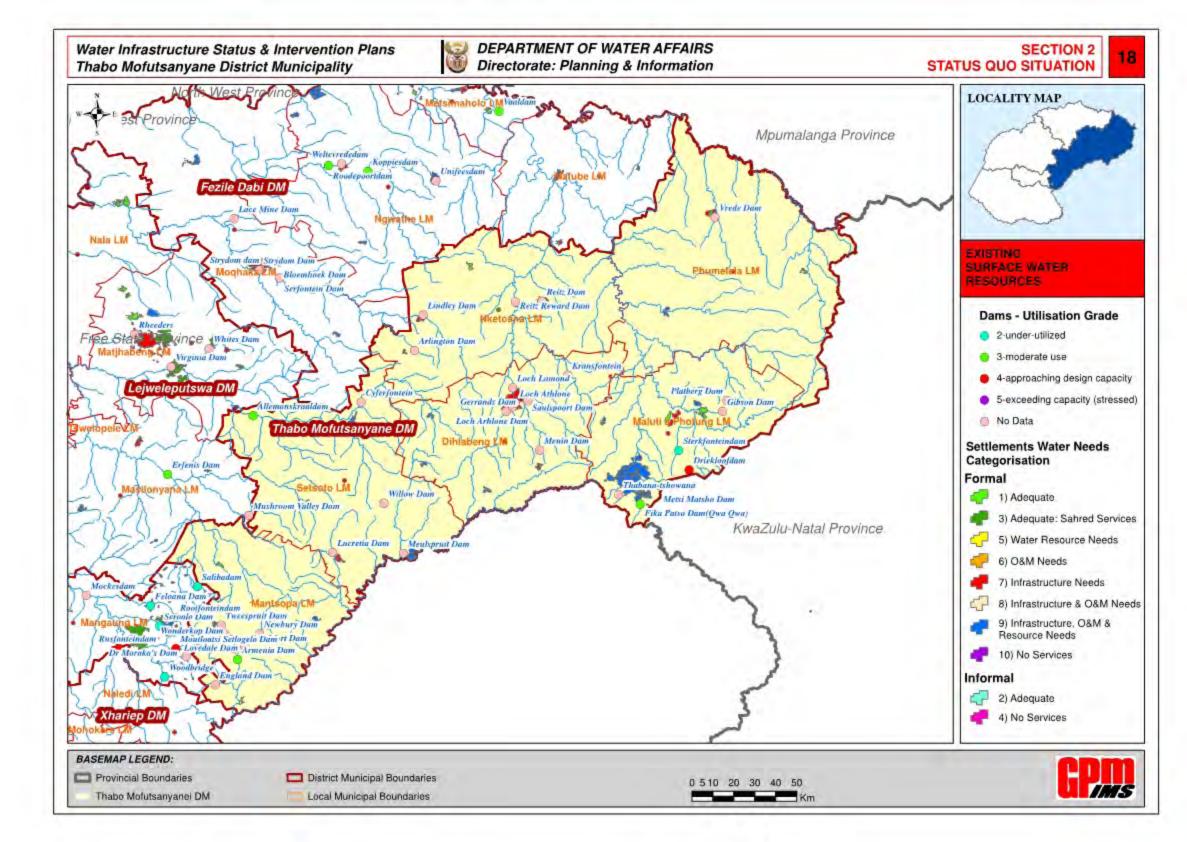
					-		C	OMPLIANCE	TO:	):					
100000		Number of	Number of	Superviso	ry Staff Requ	irements	Process Co	Introller Staff	Requirements	O&M S	Staff Require	ments			
MM/DM	LM	WWTW's	Staff on Site (Permanently)	No	Yes	Unknown	No	Yes	Unknown	No	Ves	Unknown			
Fezile Dabi	Mafube	6	D	6			6	1		6					
Fezile Dabi	Metsimaholo	7	0	7			7			7					
Fezile Dabi	Moghaka	5	0	4		r.	5	i.		5					
Fezile Dabi	Ngwathe	5	0	5			5			5					
Lejweleputswa	Masilonyana	7	0	7			7			7					
Lejweleputswa	Matjhabeng	13	0	13			13			13					
Lejweleputswa	Nala	2	0	2			2			2					
Lejweleputswa	Tokologo	- 4	0	4			4			4					
Lejweleputswa	Tswelopele	2	0	1		·	2			2					
Mangaung Metropolitan Municipality	Mangaung	9	0	9			9			9					
Thabo Motutsanyane	Dihlabeng	6	0	8			8			6					
Thabo Mofutsanyane	Maluti a Pholung	7	0	8		1	7			a a					
Thabo Motutsanyane	Mantsopa	6	0	6			6			6					
Thabo Motutsanyane	Nketoana	-4	0	14			4			-4					
Thabo Mofutsanyane	Phumelela	-4	0	4			4			.4					
Thabo Molulsanyane	Setsolo	5	0	5			5	<u>ic</u>		5					
Khariep	Kopanong	12	0	12			12			12					
Charlep	Letsemeng	6	D	6			6			6					
Kharlep	Mohokare	3	0	3			3			3					
Khariep	Nalodi	3	0	3			3	1		3					
Total for Province		116	0												

NOTES: 1) Information concerning Number of Staff on Site and Staff Requirements is completed as available. 2) Information derived from Reference Framework geodatabase feature class WWTW



#### EXISTING SURFACE WATER RESOURCES

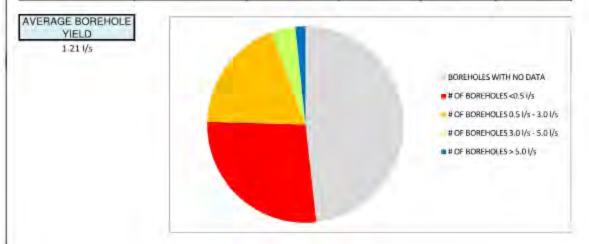
NAME	RIVER	OWNER	WMA	LIVE CAPACITY	1.50 YEAR VIELD	DESIGN GAPACITY	UTILISATION GRADE	TYPE OF WATER USE	TOTAL WATER ALLOGATION	ANNUA YIELD
Alemanskraaldam	Sand River	DWA	Middle Vaal	174		213,1	3-moderale use	Wigation[High-value]		53
Arkneton Dam	Hamman Sprut			- 12			No Data			
Armenia Damo	Leon Rivier	DWA	Upper Grange	13		13	3-moderate use	impationthigh value)		0.5
Cylertanten			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1	No Data			
Direkacotaam	Numejears Sprut	DWA	Upper Vasi	32		35,6	4-anonoaching design capacity-	liydro-power generation		1
England Dam-	Makoposphill					0	No Data			
Pika Pateo Darri(Qiwa Qina)	Tuipila River			-			S-moderate use	domustic/Prigition		
Frankfort Dam	Last River Tr.						No Data			
Semanus Dem	Gerrand Spn.it						No Data			
Gibson Dam	Wilge Piver			-			No Data		1.12	
Kranstamen							No Data			
Lindley Dam	Vals River						No Data			
och Athlane			7				No Data			
Loch Alhione Dam	Jordaan Rivier						No Dala			
Loch Lomand	Jordaan Rivier						No Data			
ovedale Dam	Klain Lesu River					-	No Data			
ucretia Dam	Moped/ River			7			No Data			
Menin Dam	Lebenbergsviel Rinter			-			No Data		1.1.	
Metsimetshiodam	Matsimalsho River			3.		4.15	3-moderaig and	Inteation/livestock		
Memopruli Dam	Medi Spn.if						No Data			
Nonthury Dam	Loop River						No Data			
Platberg Dam	Platterg River						No Data			
Reitz Dam	Liebenbergsviel River			2.0.0			No Dala			
Roltz Reward Dam	Liebenbergswiei River		-			· · · · · ·	No Data			
Sauspoort Dam	Liebenbergsviel	DWA	Upper Vaci	17	7		No Data			
Sterkfonteindam	Nuwejser Sprutt	DWA	Upper Vasi	2.617		2656	2-under-utilized	domiestro inclustry.		8.79
Thalauna-Ishowana					-		No.Dain			_
Tweesphill Dan	Lit Lenu River					-	No Daia			
Viede Dam	Spruitsondardhi		-	-			Pilo Data			
Wittiw Dam	Meilisprüf		-				No Dete			
Wonderkop Dam	Kin Leeu River				-		No Data			

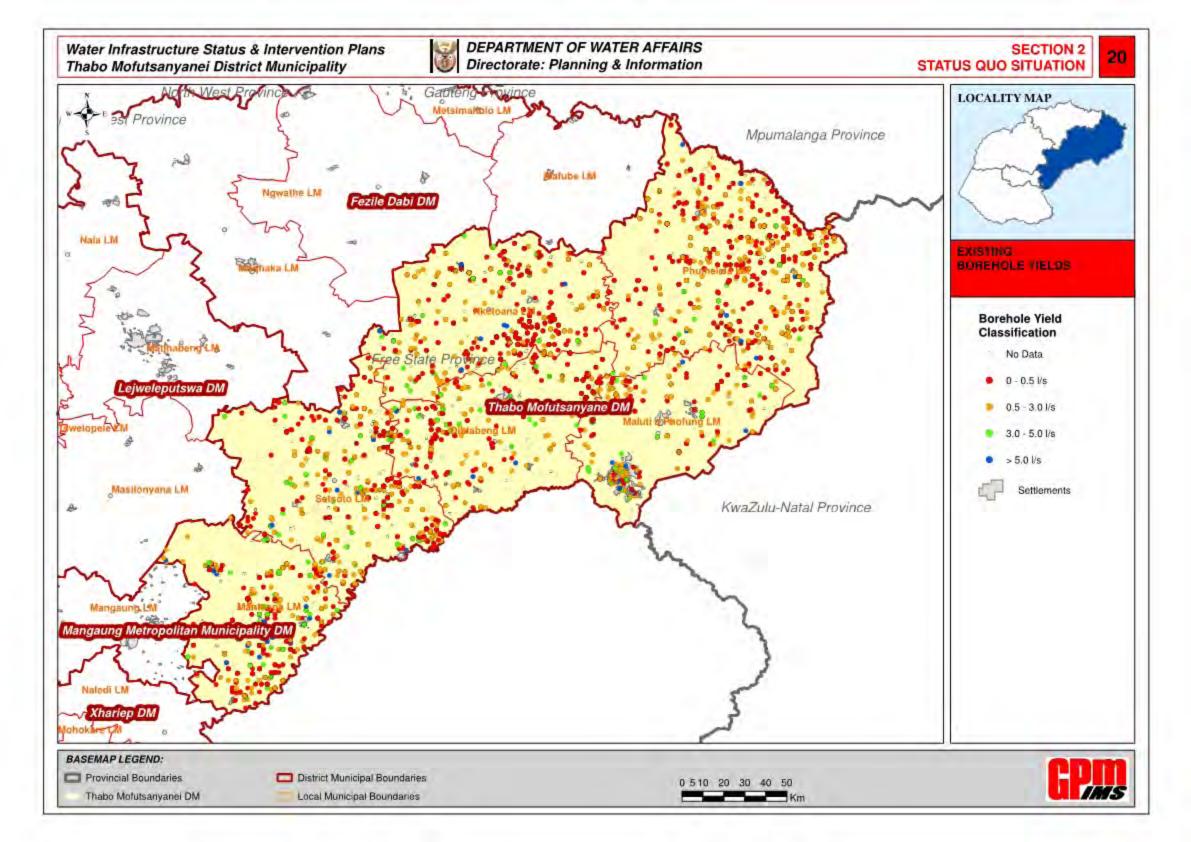


39

EXISTING BOREHOLE YIELDS

TOTAL NR OF BOREHOLES	BOREHOLES WITH NO DATA	# OF BOREHOLES <0.5 I/s	# OF BOREHOLES 0.5 l/s - 3.0 l/s		
6 125	2956	1666	1156	245	102

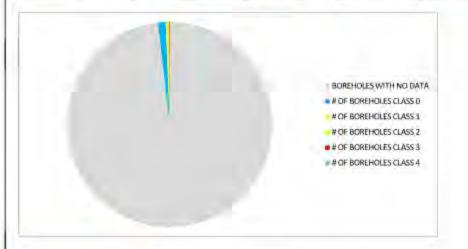




23

EXISTING BOREHOLE QUALITY

TOTAL NR OF BOREHOLES	BOREHOLES WITH NO DATA	# DF BIGRENOLES CLASS 0	# OF BOREHOLES CLASS 1	# OF BOREHOLES CLASS 2	CLASS -	BOREHOLES CLASS 4
6.125	6011	76	14	18	6	0



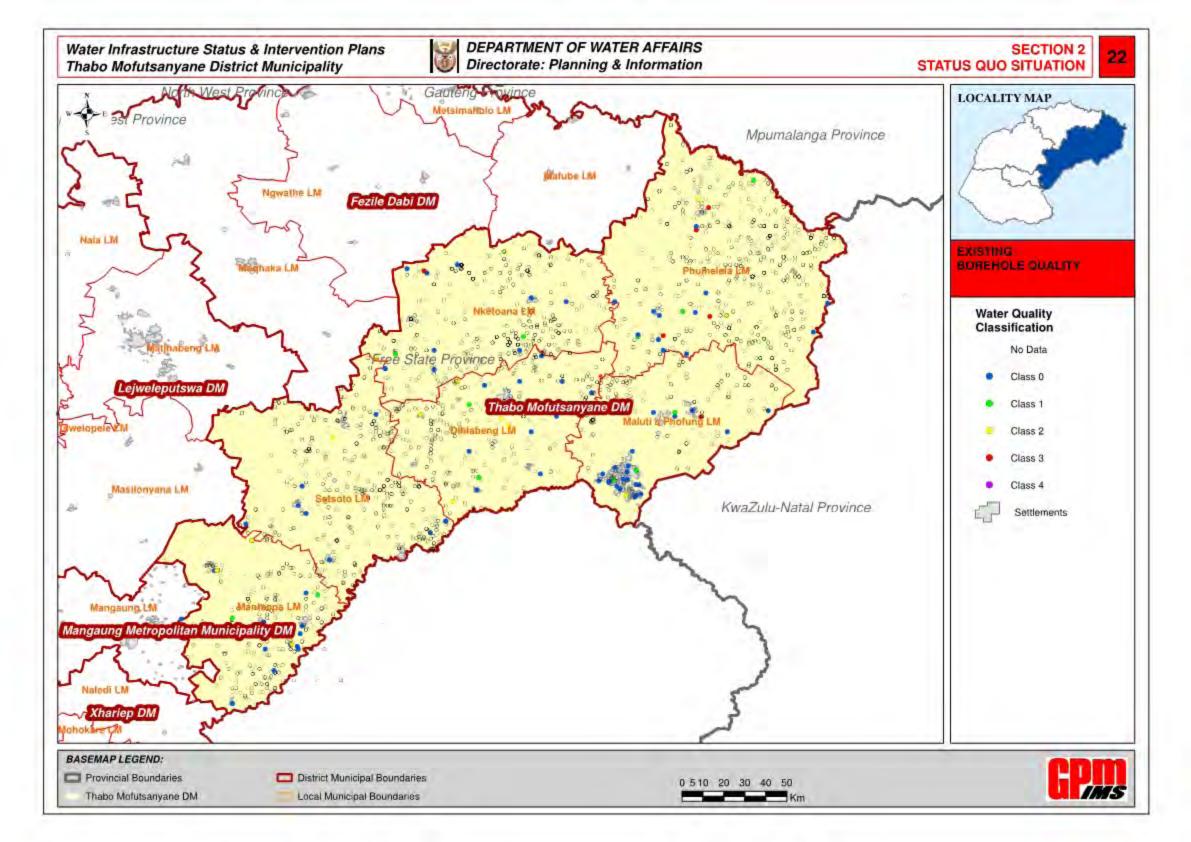
#### WATER QUALITY CLASSIFICATION FOR HUMAN CONSUMPTION

BLUE	Class 0	Ideal water quality - suitable for life time use
GREEN	Class 1	Good water quality - suitable for use with rare instances of negative effects
YELLOW	Class 2	Marginal water quality - conditionally acceptable, negative effects may occur in sensitive groups
180	Class 3	Poor water quality - unsuitable for use without water treatment, chronic health effects may occur
PURPLE	Class 4	Dangerous water quality - totally unsafe for use, acute health effects may occur

#### Negative effects can be:

Health effects	Illnes
Aesthetic effects	Changes in water colour, taste or odour, staining of laundry or household lixtures
Economic effects	Increased soap consumption, and scaling and corrosion of household pipes

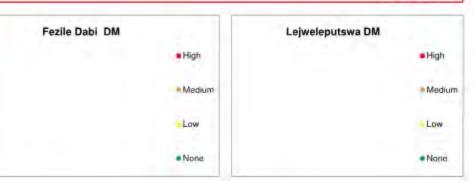
CLASSIFIACTION BASED ON: "QUALITY OF DOMESTIC WATER SUPPLIES PUBLISHED JOINTLY BY DEPTS. OF WATER AFFAIRS, HEALTH AND THE WATER RESEARCH COMMISSION"



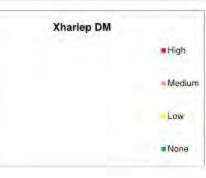
# 23 SEC

# SECTION 2 STATUS QUO SITUATION

MM/DM	LM	Numb	er of Scheme	es with O&M	Needs
		None	791	Medium	Low
Fezile Dabi	Malube	- Sector and the	· Service ·	ard support	- first weather -
Fezile Dabi	Metsimaholo				
Fezile Dabi	Moghaka		1.00		
Fezile Dabi	Ngwathe				1.1 m m
Lejweleputswa	Masilonyana			10 mm - 100	Lig example
Lejweleputswa	Matjhabeng				Al-Table Con-
Lejweleputswa	Nala	10 C 10 C		0.050	
Lejweleputswa	Tokologo				
Lejweleputswa	Tswelopele				11, 11, 11
Mangaung Metropolitan Municipality	Mangaung				
Thabo Motutsanyane	Dihlabeng	Not available	Not available	Not available	Not available
Thabo Motutsanyane	Maluti a Photung	Not available	Not available	Not available	Not available
Thabo Motutsanyane	Mantsopa	Not available	Not available	Not available	Not available
Thabo Motutsanyane	Nketoana	Not available	Not available	Not available	Not available
Thabo Molulsanyane	Phumeleia	Not available	Not available	Not available	Not available
Thabo Molulsanyane	Setsoto	Not available	Noi available	Not available	Not available
Xharlep	Kopanong	No minor		100 million	The Common
Xhariep	Letsemeng				
Xhariep	Mohokare				
Xhariep	Naledi				
Total for Province		0	0	0	0

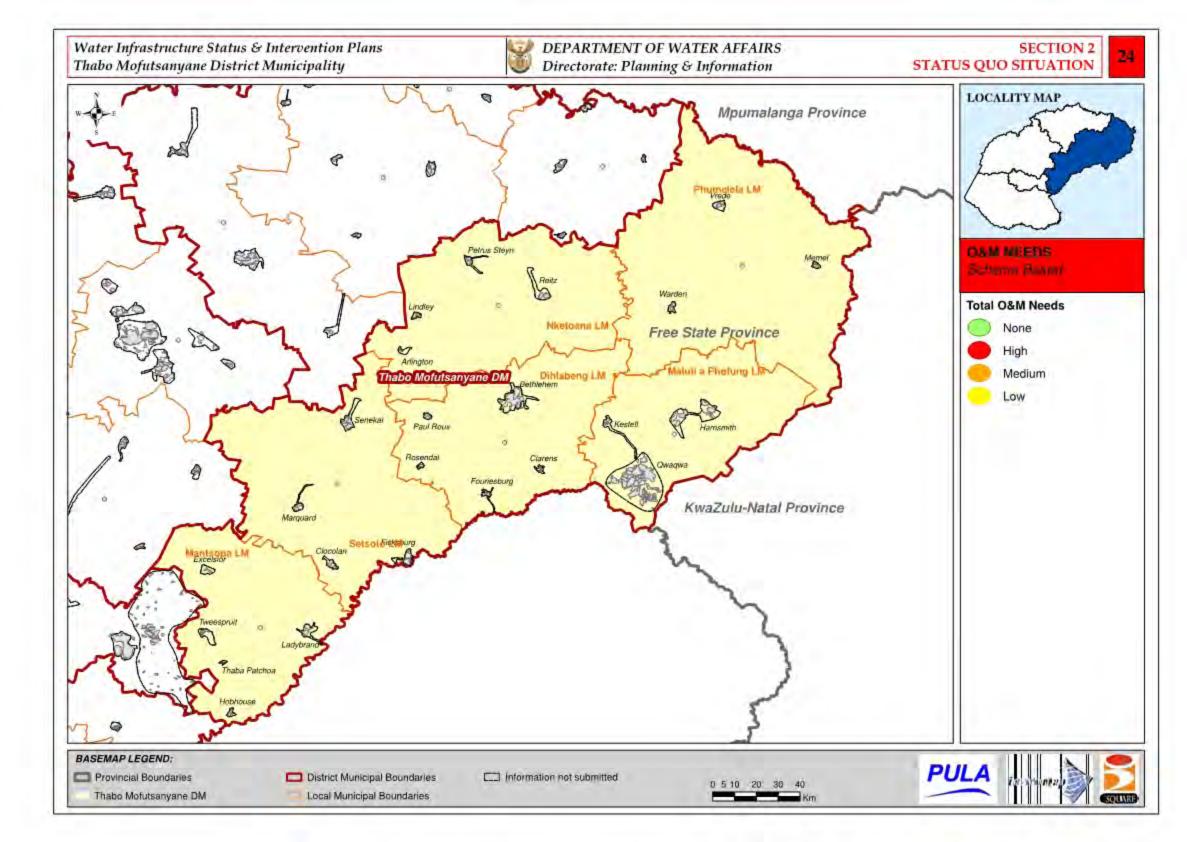


Mangaung MM		Thabo MofutsanyaneDM
	High	High
	- Medium	= Medium
	Low	Low
	None	None



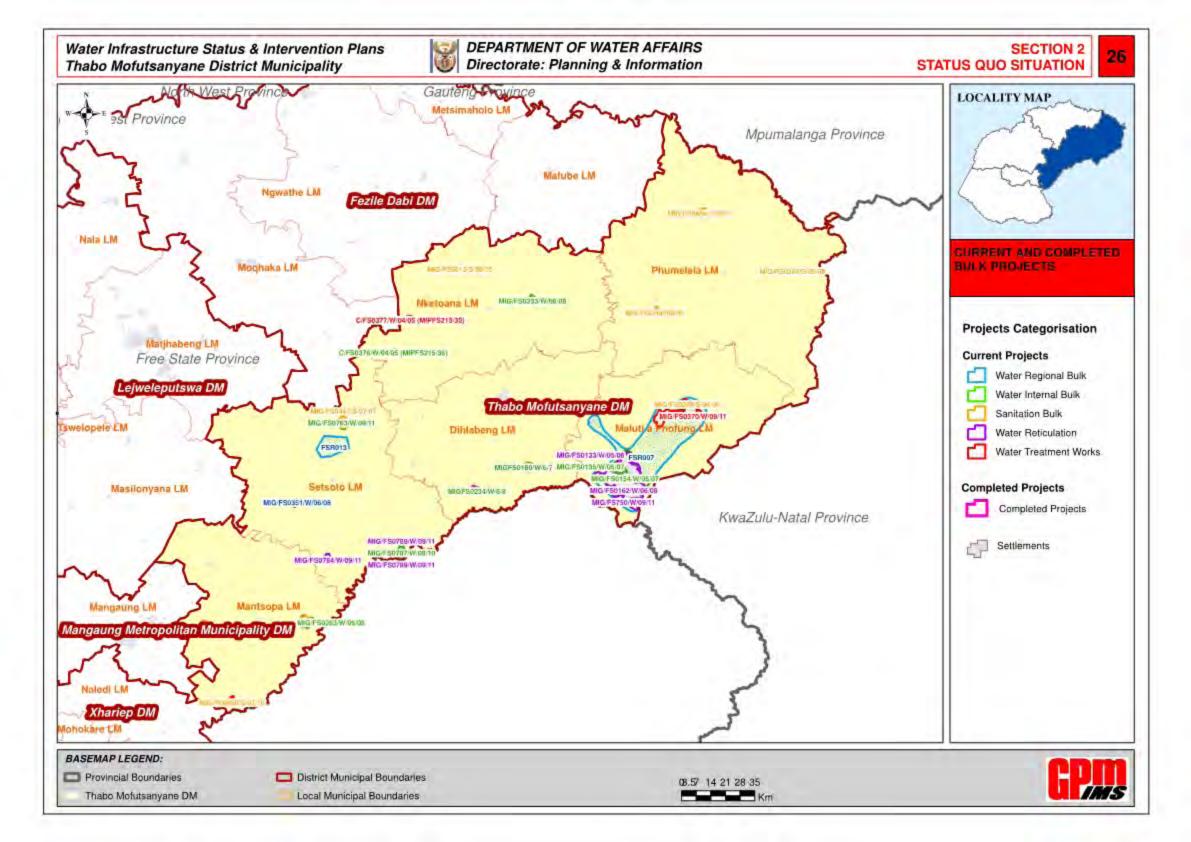
NOTES: Reference Framework - No data

## **O&M NEEDS**



IN DAY SHOW

Mathem         Mathm        Mathm        Mathm	DETINCT BURGRAUTY	FOCAL MUNICIPALITY			PROJECT TYPE	HINOLECT STATUS	0WW FUNDING 2011/12	und Puintuma 2845/12	FILIS FUNDING	RELEF PUNDING 301112	ADIP FUNDING	WUNCTAL INTERVENTION PURDING 2011/12	OTHER FUNDING 2311/12	ALLOCATION (2241192)	FOTAL PUNDING		
Normal	Madarametry in Dissect Markasan-a-	Mirran Line Marianey	86/2	Water Consumption and Delmand Michael Parts	Alter Higgs al B.H.	Phone .	West Resource Device (Massignment) Tables y in Device ground		ar inDevelopment .								1000
Norscale	Way why one Detella Managery	Gutaoas piccal Minicipality	ALSA	Shu	Marar Bigeral Date:	a contract of the second se								1. 0		<	790386
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Assessment of each WSA as presented in the WSDP for all Water Services Planning Enabling Factors, Compliancy Elements and Future Plans in relation to:

- Accuracy of Informed (Quality)
- Representation of Total Area (Quantity)
- Implementation Strategies

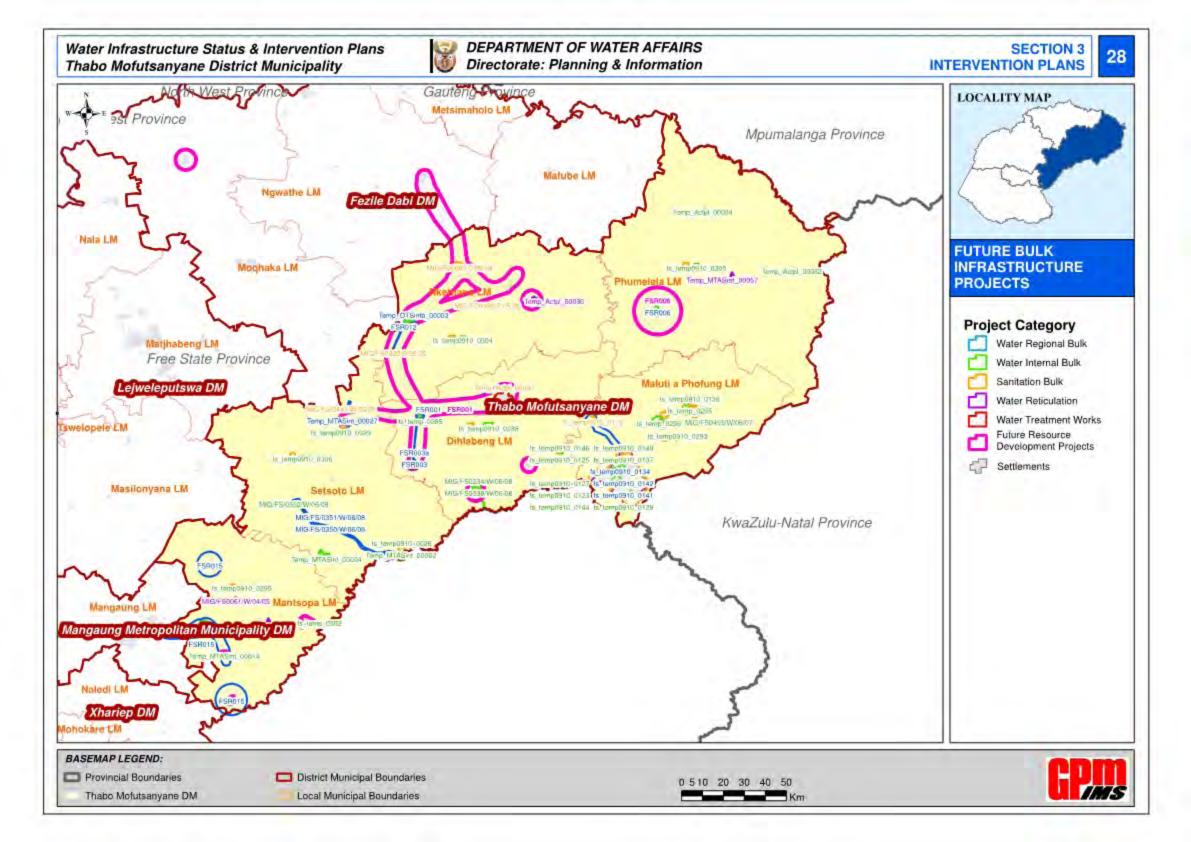
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