

Water Services Information Reference Framework

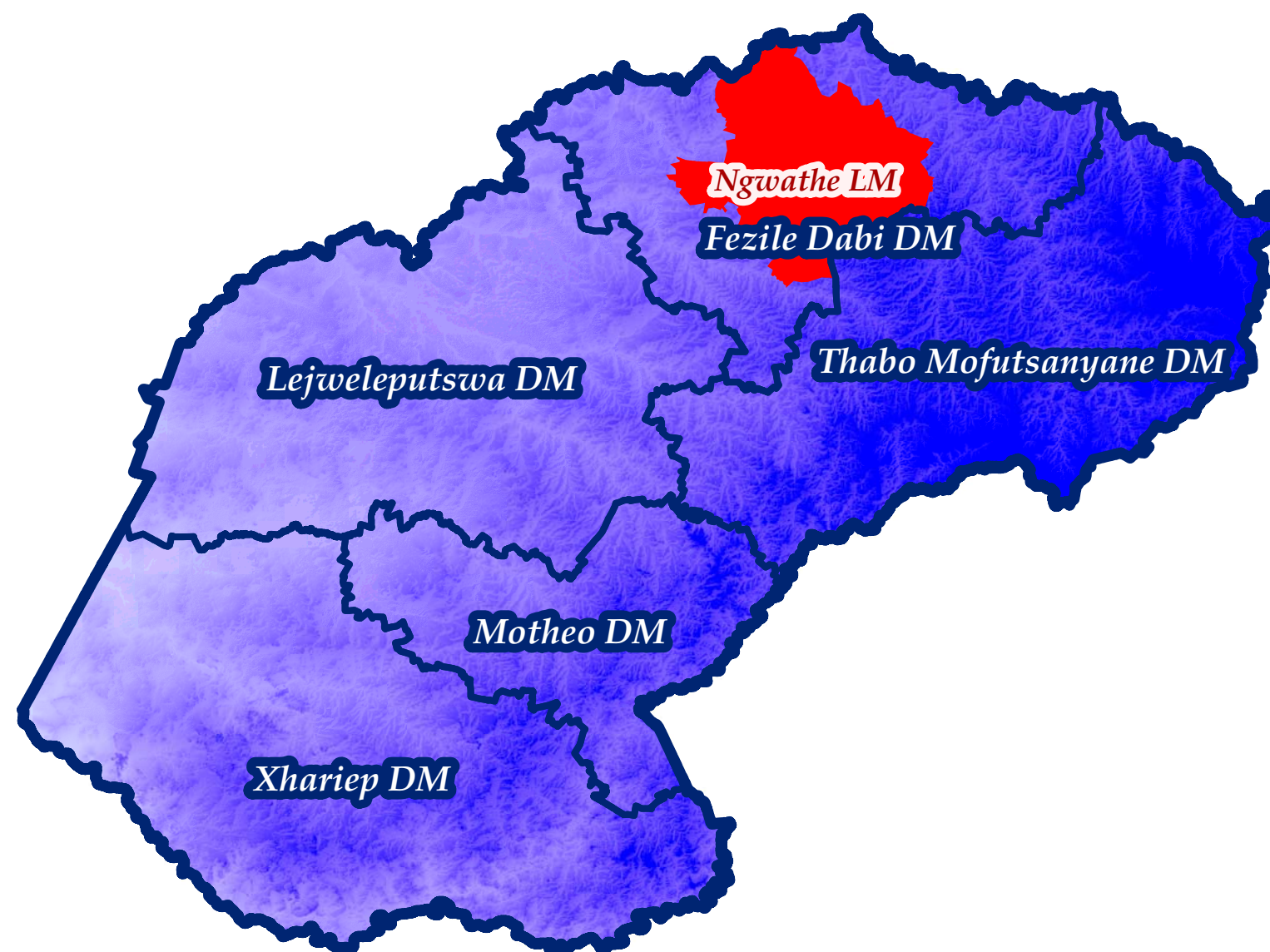


TOPIC EXTRACT: WATER BACKLOG ERADICATION STRATEGY

FREE STATE PROVINCE

NGWATHE WSA

June 2011



DEPARTMENT OF WATER AFFAIRS
Directorate Water Services Macro Planning and Information Systems

Water Services Information Reference Framework



Purpose of Document

The purpose of the document is to provide a common reporting structure for a water services backlog eradication strategy of every Water Services Authority (WSA) to DWA National Planning and Information. In the instance where there is an existing strategy in the province, the information must only be reported through the structure this document provides. This document must be aligned with the WSA strategy and not create a new or additional strategy. In the instance where no strategy exists in the WSA, this document will be utilized as an interim WSA strategy.

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)



INVIROMAP

C Stopforth
083 407 4507



ISQUARE

R Dreyer
082 375 2015

As Represented by:

WATER SERVICES PLANNING RF PSP

Province: Free State

PULA

J du Plessis
012-424 0900

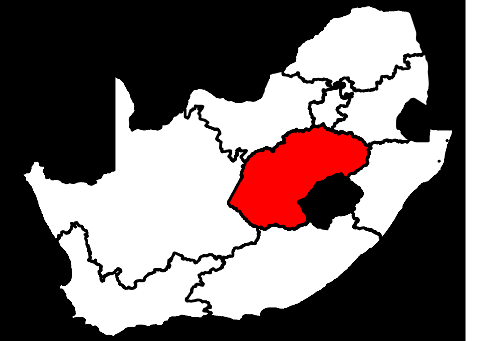


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A van Staden
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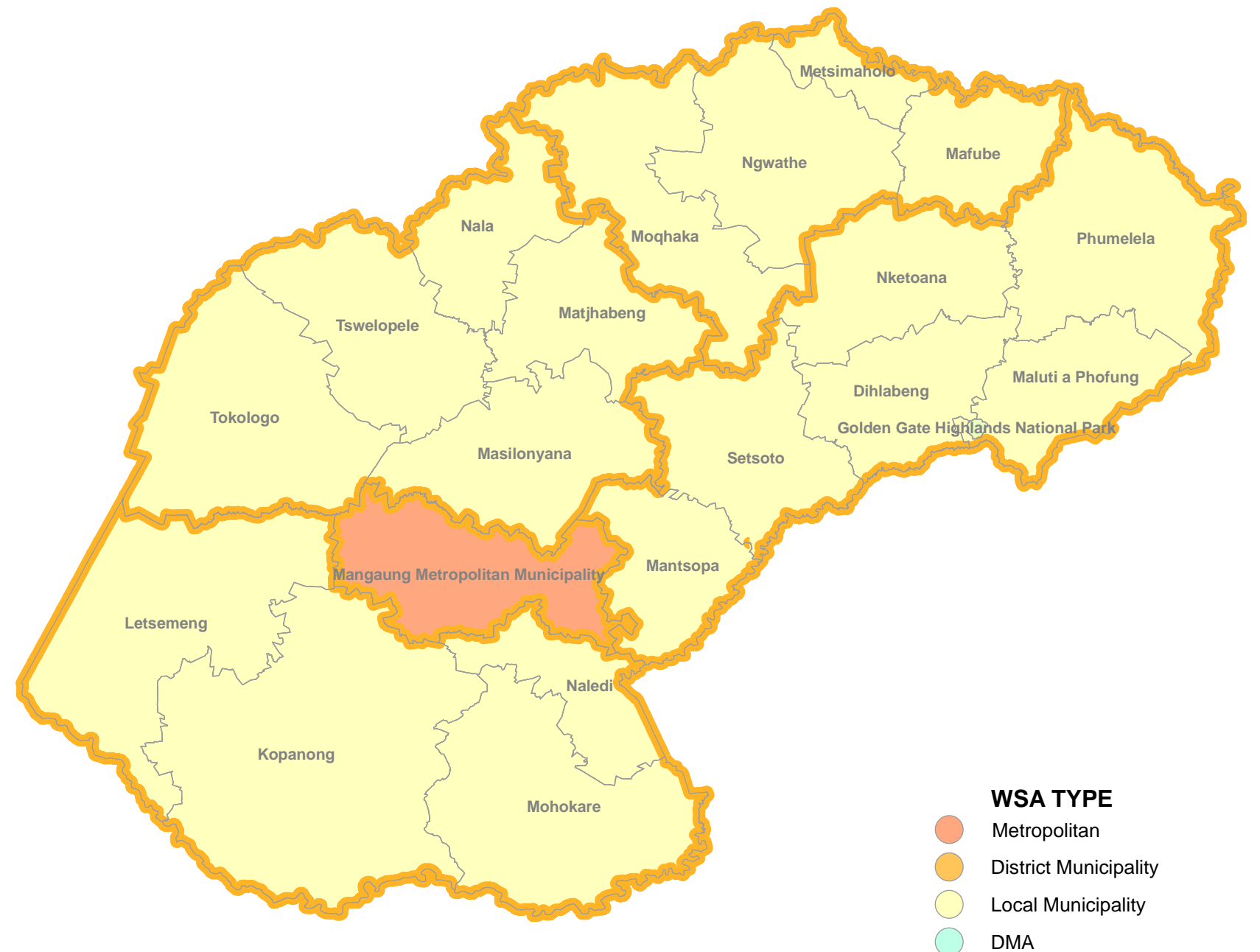


Water Services Information Reference Framework



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METHODOLOGY

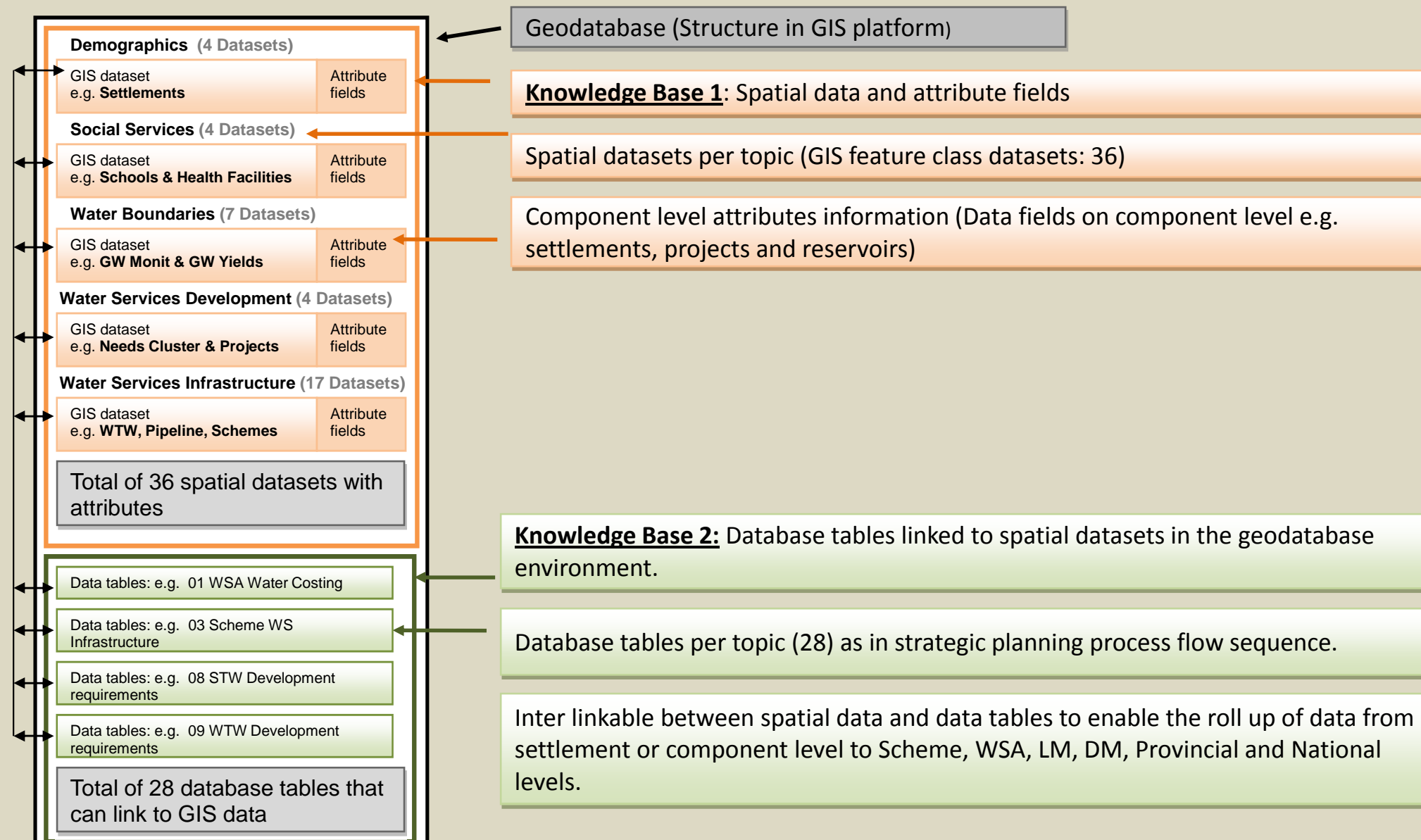
KNOWLEDGE BASE



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Data Description

The base dataset that was used in the Backlog Eradication Strategy Process (BESP) was the DWA 2010 Settlements from the Reference Framework Geodatabase (RFGDB). The complete RFGDB consists of the following structure in Arc GIS 9.3 Geodatabase platform.



METHODOLOGY**KNOWLEDGE BASE (continue)**

For the **BESP** the focus was on the Settlement dataset to update the following:

- Spatial Polygons
- Population & Household Figures
- Re-calculate Water Service Level Requirements

Data History

The RFGDB Settlement dataset was compiled in an Arc GIS Geodatabase format and completed in 2009. The dataset evolved from the previous DWA First Order Strategy GIS base data where spatial settlement polygons were captured on orto-photo maps and later updated on available satellite images. The settlement polygons were aligned with the STATS SA Enumerated areas and population figures were calculated by means of a hut count on the image data and households sizes per demarcated area. Calculations were also done to align with the official STATS SA figures on small scale settlement polygon level. This ensured intersectoral alignment of rolled up figures on Local -, District Municipal, Provincial and National levels. Various other sources of information generated from feasibility studies or other project initiatives were also incorporated into the data to ensure continuous improvement and updating of the base line data.

Water and Sanitation service levels and needs figures were calculated according to specific category definitions for each settlement polygon by evaluating the current water services infrastructure information and intensive interaction with Water Services Authorities on LM levels. The Reference Framework information was also utilized in the WSDP processes and work shopped in detail with the WSA's. This ensured a screening of the accuracy of the information to identify shortcomings or discrepancies and that the updating thereof incorporated the inputs from WSA's and their approval.

2011 Update

The National Initiative entailed that Provincial Planning Teams calculated a complete new Settlement dataset on settlement level in the GIS platform. For each settlement:

- 
- A new settlement boundary was captured on new Obtained 2010 SPOT 5 Satellite images
 - New Population and Households figures were calculated utilizing the Eskom 2008 dwelling count GIS data and Image hut counts
 - New Water Service Level requirement were calculated according to the new BESP categories



METHODOLOGY

THE DATA PROCESS

New Reporting Requirements

Similar to South Africa's fast growing demographic and economic trends is the Water Services Planning Sector also a dynamic ever changing business. The need arose to redefine the methods of reporting on water and sanitation needs and backlog figures and to ensure that the current data accurately reflects the fast changing demographics of South Africa. A Strategic process was launched to ensure that data will be captured on a GIS base platform utilizing up to date Information Systems Technology as well as to align with other Government and Non Governmental stakeholders.

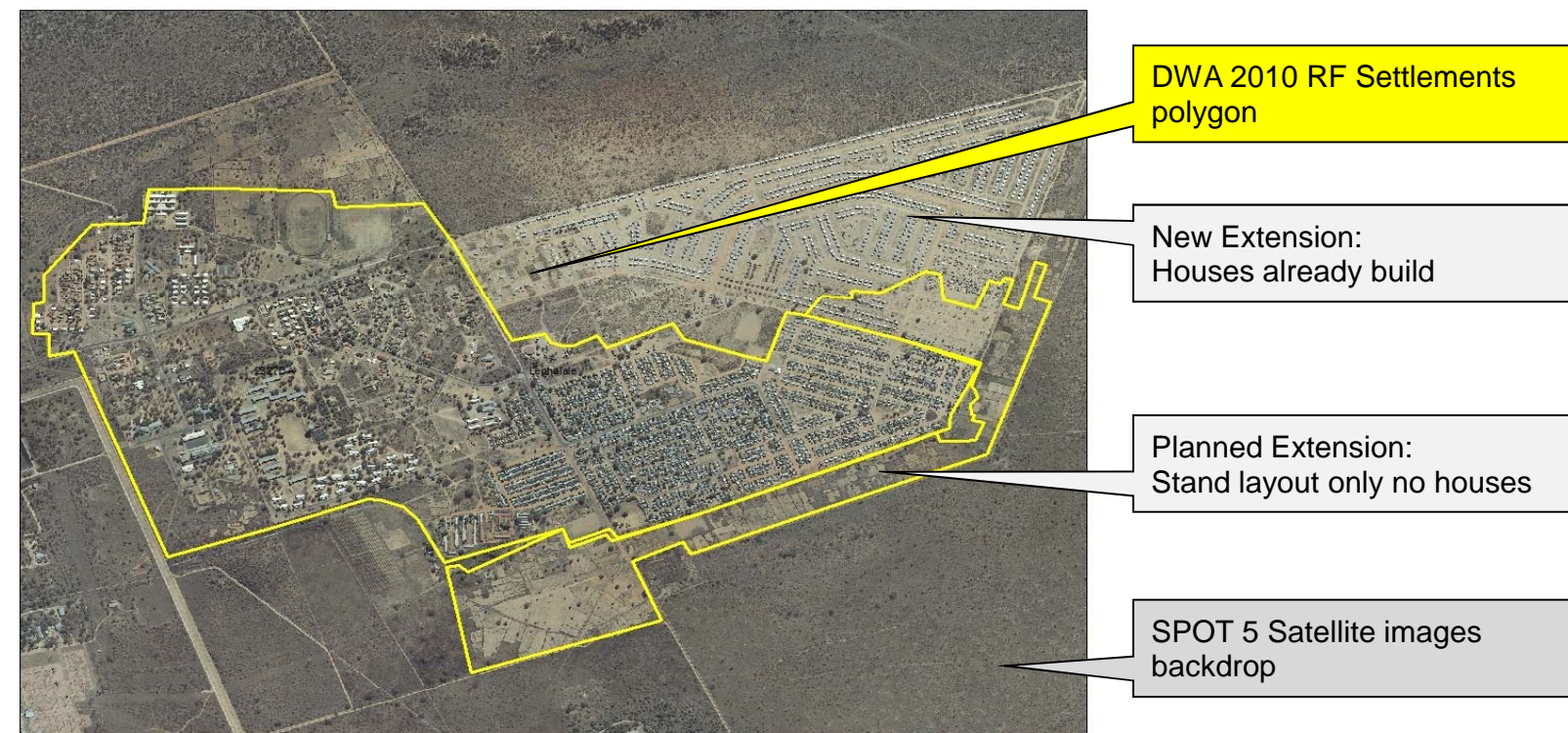
AIM

The aim of the initiative was that the process it self would result in a Backlog Eradication Strategy. The process was developed in such a manner that the newly designed data reporting categorisations would serve as a guideline for a detail step by step data gathering and updating process. Intensive data capturing, evaluating, processing and analysis were performed on settlement level to complete the structures. The reporting result of data from these structures automatically describes the service levels, requirements and focused solutions in a strategic manner.

The 2011 Spatial Data Analysis



- Obtained 2010 SPOT 5 Satellite images
- Overlay DWA 2010 RF Settlements GIS dataset
- Evaluated data to identify possible new or expansion developments



METHODOLOGY

THE DATA PROCESS (continue)

Overlay of ESKOM Dwelling Information

ii

Obtained 2008 ESKOM dwelling points GIS dataset. Overlay on baseline information for spatial update.

Updating Spatial Polygon and calculating new Population and households Information

iii

Updating new settlement polygon and utilizing ESKOM points as well as image based hut counts to calculate new households size and population figures. Utilize water services infrastructure information and local area knowledge to calculate new water services water and sanitation need classification figures.

Utilizing image backdrop and ESKOM points to identify rural scattered farm dwellings and incorporating into Geodatabase.

iv

Development of new Water Services Levels Definitions and Categories

v

New Water Service Level Categories were defined. All settlements were evaluated and updated according to their current water services needs within the new data structures. New households and population fields were completed for each settlement according to the categorisation model. Settlements were categorised according to a single or combination of needs.

Categorisation	Description
1	ADEQUATE
2	ADEQUATE: INFORMAL
3	ADEQUATE: FORMAL SHARED SERVICES
4	BELOW: NO SERVICES INFORMAL SETTLEMENT
5	BELOW: WATER RESOURCE RELATED
6	BELOW: O&M NEEDS
7	BELOW: INFRASTRUCTURE NEEDS
8	BELOW: INFRASTRUCTURE & O&M NEEDS
9	BELOW: INFRASTRUCTURE, O&M & RESOURCE NEEDS
10	BELOW: NO SERVICES



METHODOLOGY

LOGIC



New Water Services Needs Categories were defined.

- New House hold and population fields was completed for each settlement according to the categorisation model. Settlements were categorised according to a single or combination of needs.
- The Model allows for double counting e.g. if a section of a settlement has a Infrastructure upgrade need and the same section also an Infrastructure Refurbishment need the totals must be listed under both fields.
- The model also allows for detail breakdown and more accurate extraction of needs figures e.g. if a section of a settlement is adequate and another section has Infra upgrade need, it will be a category 7 and the adequate HH must me listed under the appropriate adequate fields and the remainder of the HH's with the needs listed under the Infra upgrade field.

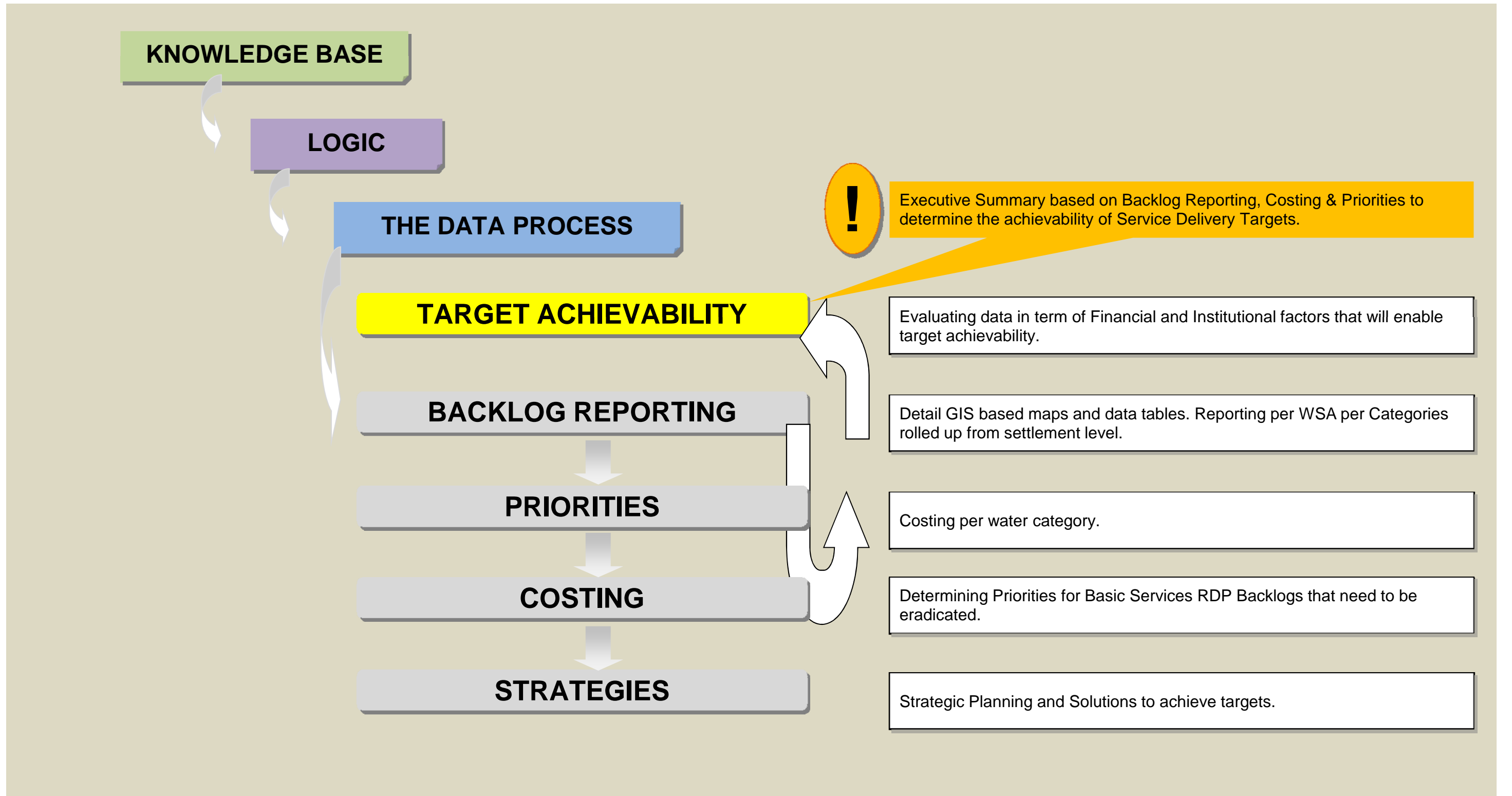
Definition	Classification	Description	Categorisation
FORMAL			
- BELOW	- No Service	Whole community never had any formal (municipal) water supply system	10
	- Infrastructure Upgrade	Existing infra not on RDP standard 1. Network: too small pipes 2. Storage: Add to exist / elevation 3. Source: Infra to increase exist yield	7
	- Infrastructure Extension	Communities have grown structurally and there are households that do not have water: <u>TOTAL</u> 1. Network: New infra 2. Storage: New & adjacent	
	- Infrastructure Refurbishment	Water can be restored to RDP by: Repair/Replace with same existing infra	
	- O&M Need (Total Settlement)	Water can be restored to RDP (where infra ok) by: enough & efficient staff and sufficient funds for O&M (incl. eg: quality at wtw, machines working, etc)	6
	- Water Resources Needs	Includes Source Development Local Available Source: New BH, pipe Conserving & Demand Management Needs Water Source Quality Drinking Water Quality	5
- ADEQUATE	- Stand Pipe	Adequate Infra	1 (C) / 3
	- Yard Connection	Adequate Infra	1 (B) / 3
	- House Connection	Adequate Infra	1 (A) / 3
INFORMAL			
- BELOW	- No Services	Permanent Housing must be provided	4
- ADEQUATE	- Informal		2



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

ROADMAP



FREE STATE PROVINCE: NGWATHE LOCAL MUNICIPALITY WSA

Categorisation	Priorities	Description	Households December 2010	Population December 2010	Cost to Eradicate	Bulk Dependant	Possible Achievement Y/N	
					(RM)	Y/N	Financial	Institutional
1	0	Adequate: Formal	33,541	117,394	0.00			
2		Adequate: Informal Settlements	585	1,773	34.95	N	N	Y
3		Adequate: Shared Services	3,274	11,461	27.50	N	N	N
10	1	No Services	-	-	0.00			
4		No Services: Informal (Includes standtaps > 200m)	-	-	0.00			
7	2	Infrastructure Needs	7,839	27,437	107.44	Y	Y	Y
8		Infrastructure & O&M	-	-	0.00			
9		Infrastructure, O&M & Resource Needs	28,064	98,224	350.98	Y	N	Y
6	3	O&M Needs	-	-	0.00			
5	4	Water Resource Needs	-	-	0.00			

NOTES:

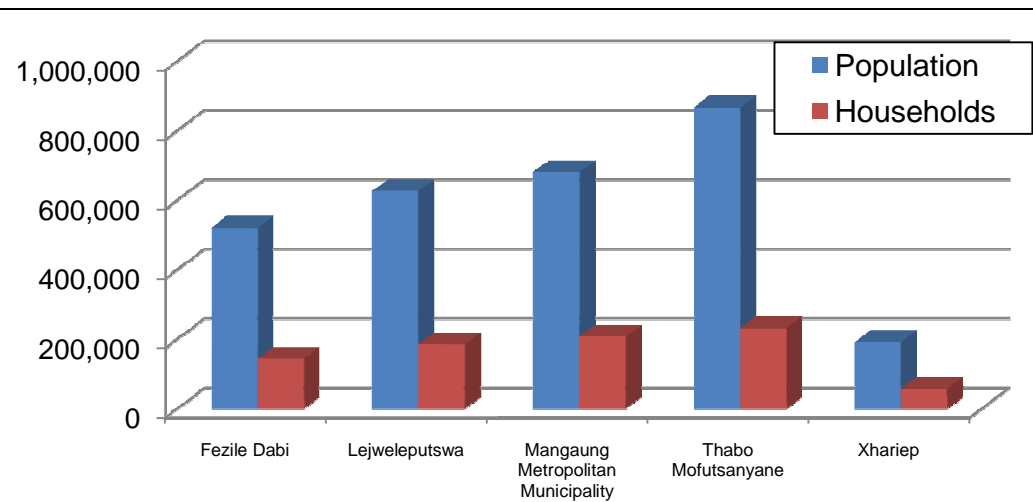
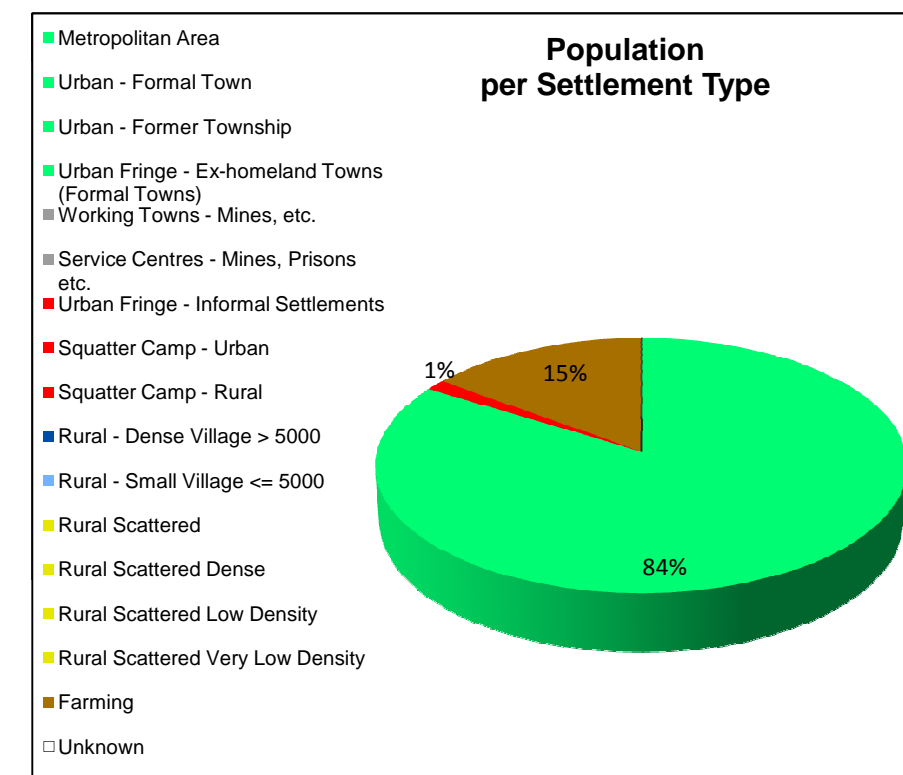
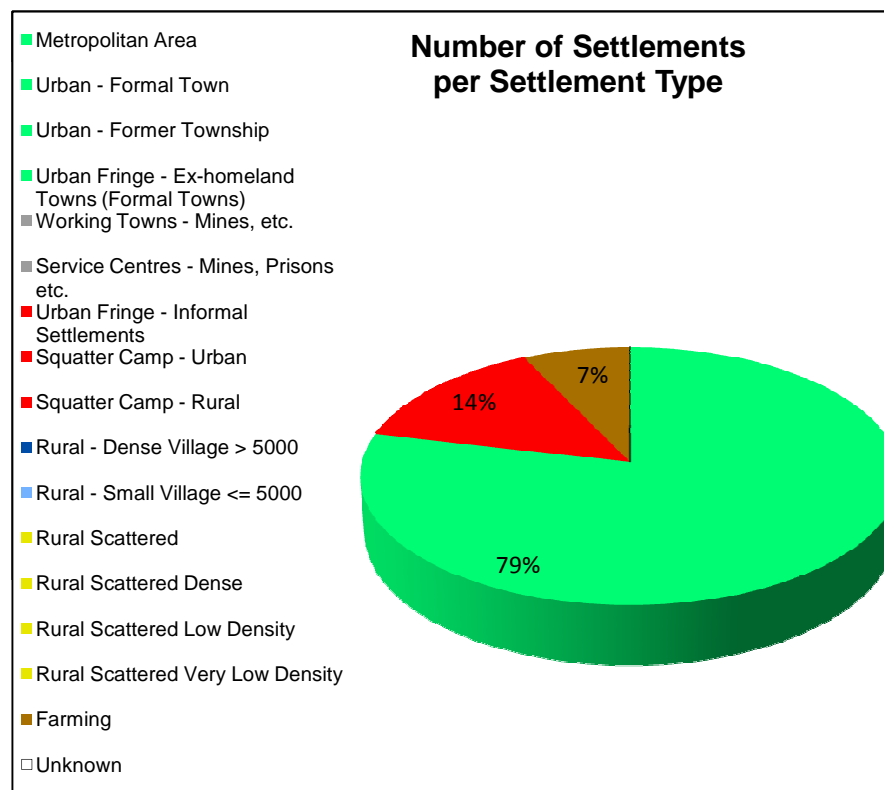
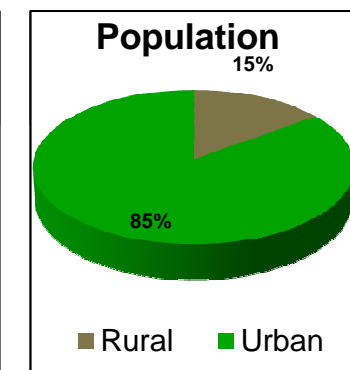
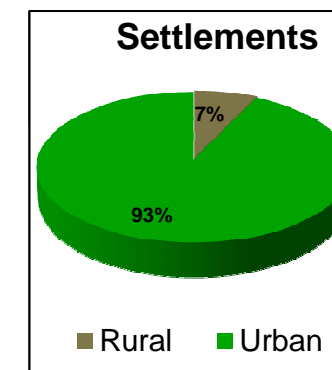
Cost to Eradicate is derived from tarrif structure per backlog per settlement.

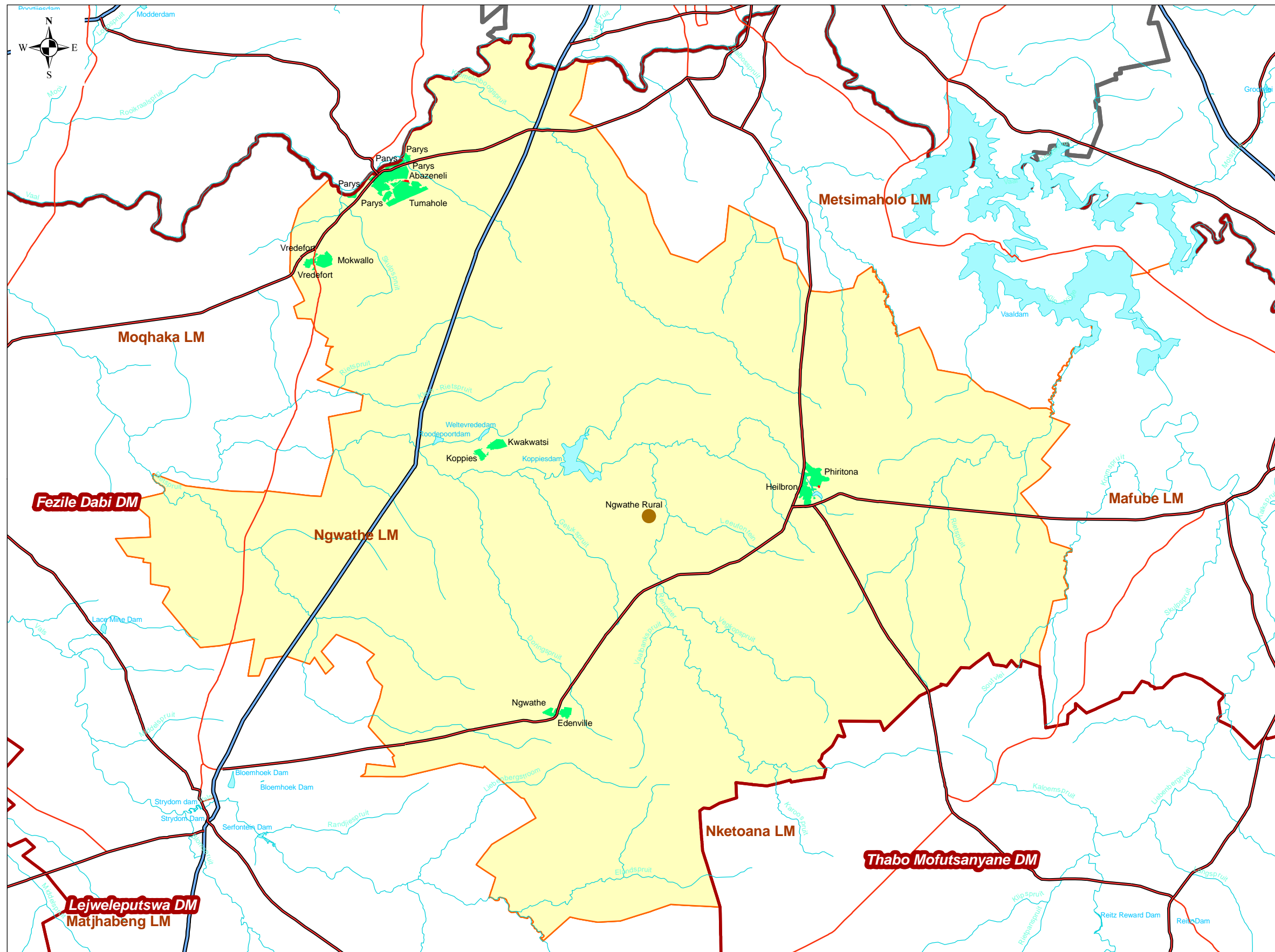
SETTLEMENT DEMOGRAPHICS (December 2011)				
DM	LM	Settlements	Population	Households
Fezile Dabi	Mafube Local	9	68,656	18,519
Fezile Dabi	Metsimaholo Local	8	150,132	43,767
Fezile Dabi	Moqhaka Local	7	170,601	43,015
Fezile Dabi	Ngwathe Local	14	130,737	37,632
Lejweleputswa	Masilonyana Local	13	69,531	19,909
Lejweleputswa	Matjhabeng Local	17	349,987	109,371
Lejweleputswa	Nala Local Municipality	5	106,981	29,234
Lejweleputswa	Tokologo Local	9	40,475	11,605
Lejweleputswa	Tswelopele Local	6	58,935	14,904
Mangaung	Mangaung Metropolitan	59	680,441	206,832
Thabo Mofutsanyane	Dihlabeng Local	15	126,787	34,101
Thabo Mofutsanyane	Maluti a Phofung Local	49	422,500	111,038
Thabo Mofutsanyane	Mantsopa Local	12	56,128	15,135
Thabo Mofutsanyane	Nketoana Local	9	70,837	18,988
Thabo Mofutsanyane	Phumelela Local	8	56,596	15,426
Thabo Mofutsanyane	Setsoto Local	10	133,690	37,240
Xhariep	Kopanong Local	26	58,693	18,801
Xhariep	Letsemeng Local	13	50,774	15,045
Xhariep	Mohokare Local	7	49,081	13,265
Xhariep	Naledi Local Municipality	9	32,679	9,972
Total		305	2,884,241	823,799

DM SUMMARY			
DM	Settlements	Population	Households
Fezile Dabi	38	520,126	142,933
Lejweleputswa	50	625,909	185,023
Mangaung Metropolitan	59	680,441	206,832
Thabo Mofutsanyane	103	866,538	231,928
Xhariep	55	191,227	57,083
Total	305	2,884,241	823,799

NGWATHE WSA SETTLEMENT TYPE DISTRIBUTION (December 2011)			
Settlement Type	Settlements	Population	Households
Metropolitan Area	0	0	0
Urban - Formal Town	5	19,092	5,455
Urban - Former Township	6	90,444	26,041
Urban Fringe - Ex-homeland Towns (Formal Towns)	0	0	0
Working Towns - Mines, etc.	0	0	0
Service Centres - Mines, Prisons etc.	0	0	0
Urban Fringe - Informal Settlements	0	0	0
Squatter Camp - Urban	2	1,773	585
Squatter Camp - Rural	0	0	0
Rural - Dense Village > 5000	0	0	0
Rural - Small Village <= 5000	0	0	0
Rural Scattered	0	0	0
Rural Scattered Dense	0	0	0
Rural Scattered Low Density	0	0	0
Rural Scattered Very Low Density	0	0	0
Farming	1	19,428	5,551
Unknown	0	0	0
Total	14	130,737	37,632

NGWATHE WSA SUMMARY			
Main Type	Settlements	Population	Households
Rural	1	19,428	5,551
Urban	13	111,309	32,081
Total	14	130,737	37,632





REFERENCE MAP

NGWATHE LM

EXISTING DEMOGRAPHICS
Settlement Based

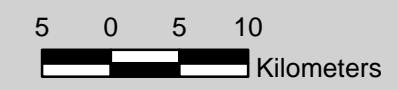
Settlement Types

- Metropolitan Area
Formal Town
Former Township
Ex-homeland Towns
- Working Towns (Mines etc.)
Service Centres (Prisons etc.)
- Informal Settlements (Urban Fringe)
Squatter Camp (Urban & Rural)
- Rural - Dense Village (Population > 5000)
- Rural - Small Village (Population <= 5000)
- Rural Scattered
- Dense
- Low Density
- Very Low Density
- Farming
- Unknown

BASEMAP LEGEND:

- Provincial Boundaries
- District Municipal Boundaries
- Dams
- Local Municipal Boundaries
- Rivers

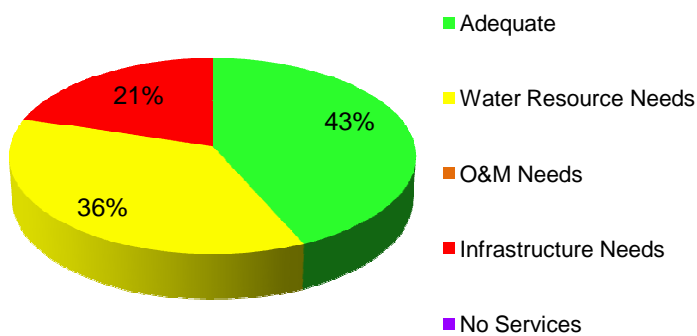
- Road Network**
- Freeway / National Route
 - Arterial Route
 - Main Road



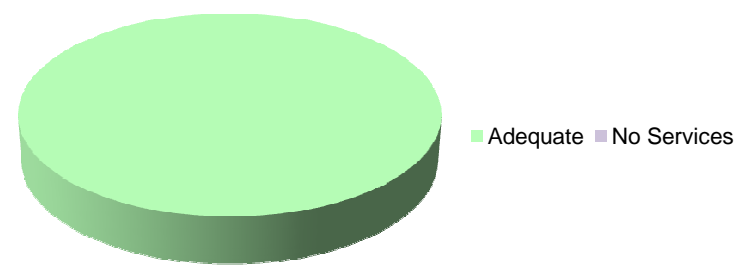
FREE STATE PROVINCE: NGWATHE WSA

Water Categorisation	FORMAL																			INFORMAL							
	Adequate								Water Resources Needs		O&M Needs		Infrastructure Needs						No Services		Adequate		No Services				
	House Connections		Yard Connections		Stand Pipes		Shared Services		HH	%	HH	%	HH	%	Upgrades		Extensions		Refurbishment		HH	%	HH	%	HH	%	
	HH	%	HH	%	HH	%	HH	%							HH	%	HH	%	HH	%							HH
1																											
2																										585	100
3																											
4																											
5																											
6																											
7	4,989	58	3,286	37			477	3						3,432	1	270	2										
8																											
9	15,135	60	10,130	35			2,798	1	28,064	100			4,407	0	6,134	11	1,549	6									
10																											
Total per WSA	20,124		13,416		0				28,064		0		7,839		6,404		1,549		0		585		0				

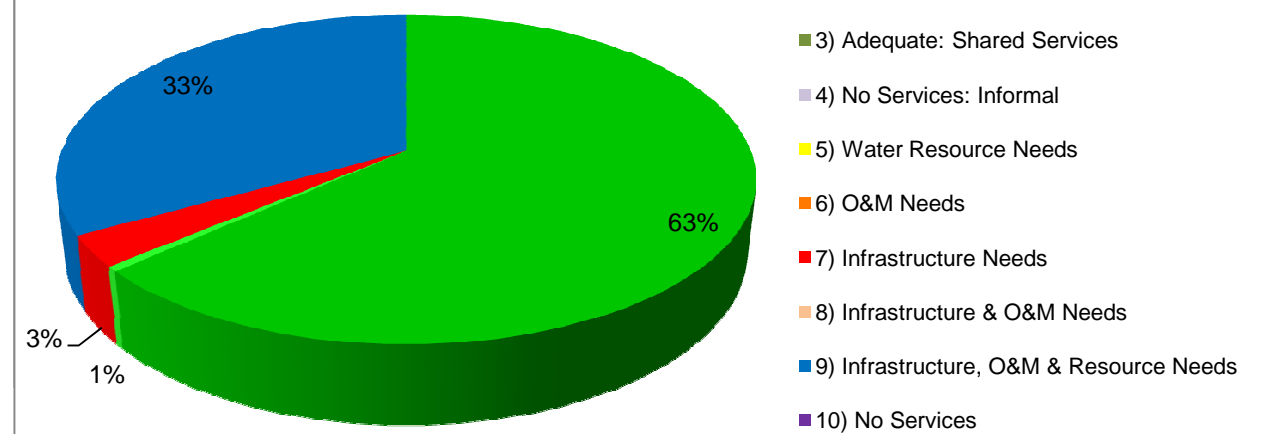
**% Water Needs: Formal
Households (December 2011)**



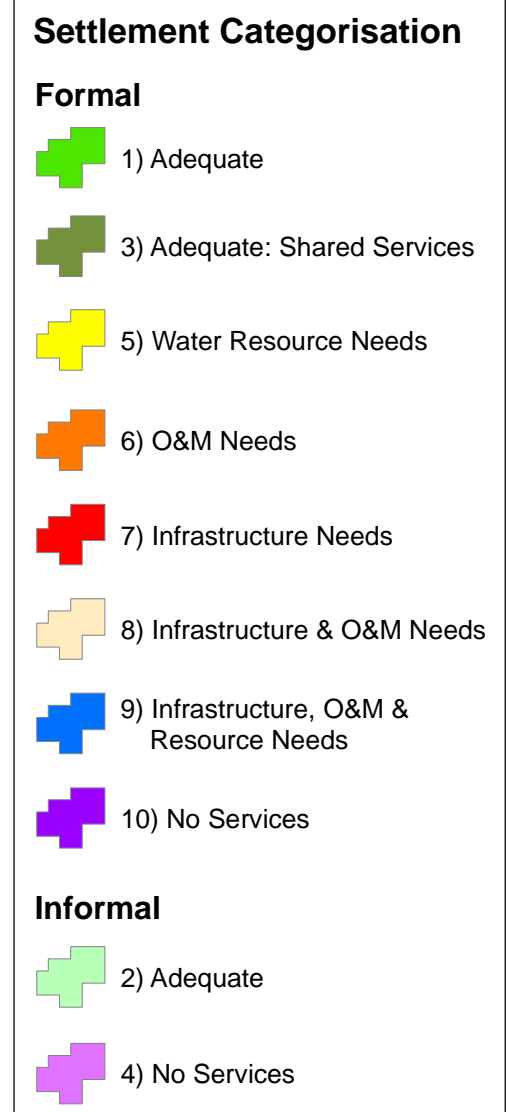
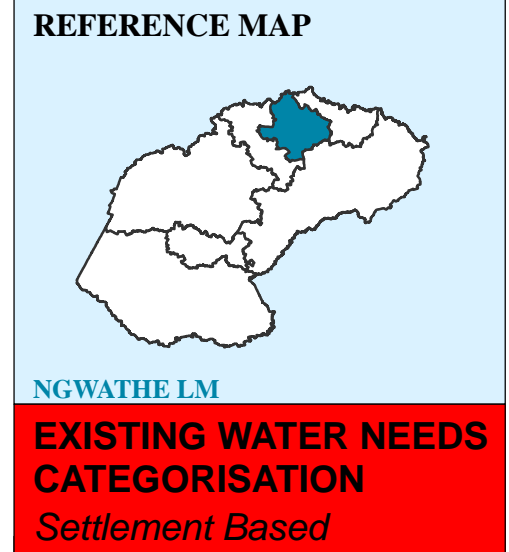
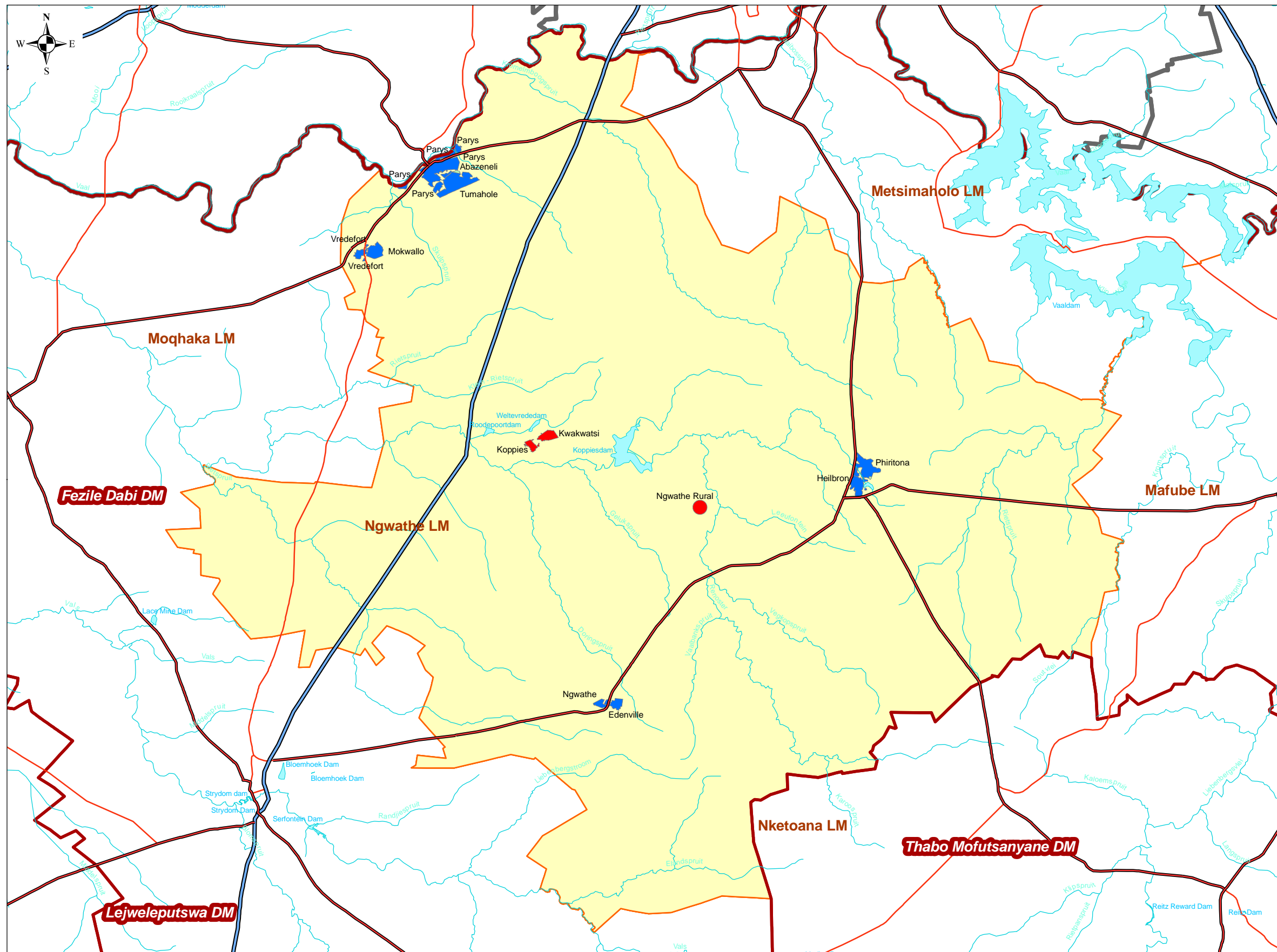
**% Water Needs: Informal
Households (December 2011)**



**% Water Needs: Total
Households (December 2011)**

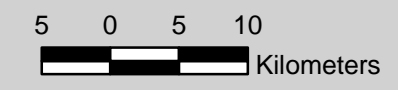


1	Adequate	3	Adequate: Shared Services	5	Water Resources Needs	7	Infrastructure Needs	9	Infrastructure, O&M & Resource Needs
2	Adequate: Informal	4	No Services: Informal	6	O&M Needs	8	Infrastructure & O&M Needs	10	No Services



BASEMAP LEGEND:

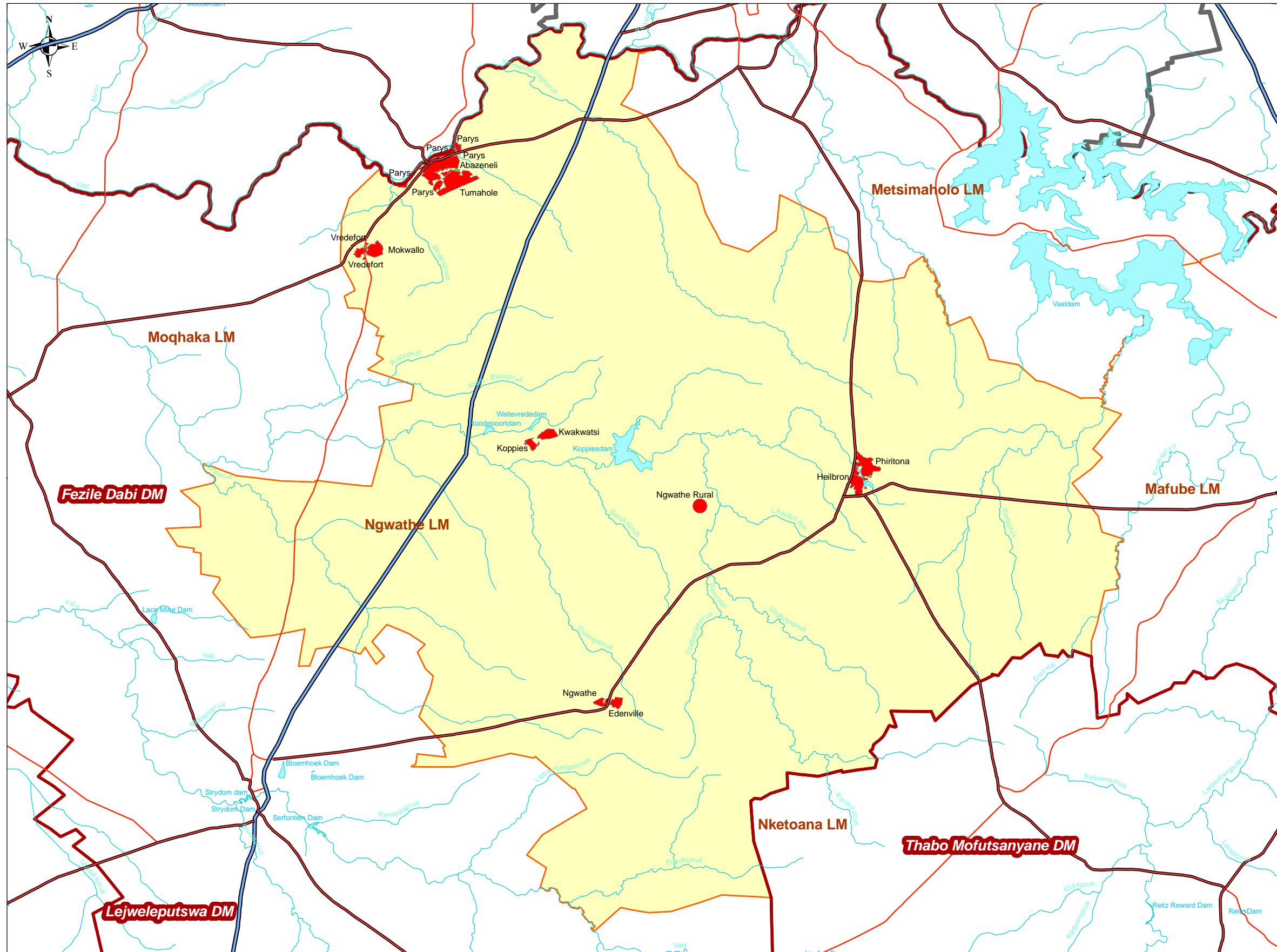
- | | | |
|--------------------------|-------------------------------|-----------|
| Provincial Boundaries | District Municipal Boundaries | Dams |
| Ngwathe LM | Local Municipal Boundaries | Rivers |
| Road Network | | |
| Freeway / National Route | Arterial Route | Main Road |



FREE STATE PROVINCE: NGWATHE LOCAL MUNICIPALITY WSA								
WATER SERVICES NEEDS CATEGORISATION		BASIC RDP BACKLOG THAT NEEDS TO BE ERADICATED BY 2014		TOTAL COST TO ERADICATE (RM)	BULK DEPENDANT Y/N	POSSIBLE ACHIEVEMENT Y/N		REQUIRED ACTION / STRATEGY
Description	Categorisation	Priorities	Priority Descriptions			Fin.	Inst.	
Formal No Services	10	1	Formal No Services	0.00				
Informal No Services	4		Informal No Services	0.00				
Infrastructure Needs	7	2	Infrastructure Related Needs	107.44	Y	Y	Y	Require funding for WTW & Pumpstation upgrade, Farming Water Backlogs
Infrastructure & O&M Needs	8			0.00				
Infrastructure, O&M & Resource Needs	9			350.98	Y	N	Y	Urgent funding required for Bulk Water Supply refurbishment water management control
O&M Needs	6	3	O&M Needs	0.00				
Water Resource Needs	5	4	Need to address Water Resource related problems e.g. Conservation and Demand Management and Augmentation	0.00				

NOTES:

Cost to Eradicate is derived from tariff structure per backlog per settlement.



REFERENCE MAP

NGWATHE LM

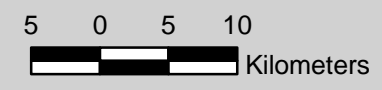
WATER PRIORITY AREAS
Settlement Based

Settlement Priorities

- 0) Adequate
- 1) Formal No Services
Informal No Services
- 2) Infrastructure Related Needs
- 3) O&M Needs
- 4) Water Resource related problems

BASEMAP LEGEND:

- | | | | |
|-----------------------|-------------------------------|--------|--------------------------|
| Provincial Boundaries | District Municipal Boundaries | Dams | Freeway / National Route |
| Ngwathe LM | Local Municipal Boundaries | Rivers | Arterial Route |
| | | | Main Road |



FREE STATE PROVINCE: NGWATHE LOCAL MUNICIPALITY WSA

Categorisation	Priorities	Cost to Eradicate	2011/12		2012/13		2013/14		Will achieve 2014 Millennium Goal Targets Financially Y - Yes N - No	Possible Achievement				Not Achieve	
			Available Cost (MIG & Other)	Funding Sufficient (Cost Requirement)	Available Cost (MIG & Other)	Funding Sufficient (Cost Requirement)	Available Cost (MIG & Other)	Funding Sufficient (Cost Requirement)		Short Term			Medium Term		Long Term
			(RM)	(RM)	(RM)	(RM)	(RM)	(RM)		2011	2012	2013	2014	Beyond 2014	
1	0	0.00	150.60		25.69		0.00								
2		34.95		34.95		34.95		34.95	N				Y		
3		27.50		27.50		27.50		27.50	N					Y	
10	1	0.00													
4		0.00													
7	2	107.44		0.00		0.00		0.00	Y		Y				
8		0.00													
9		350.98		307.82		282.13		282.13	N				Y		
6	3	0.00													
5	4	0.00													

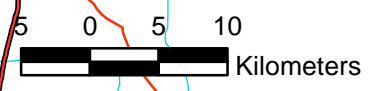
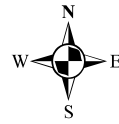
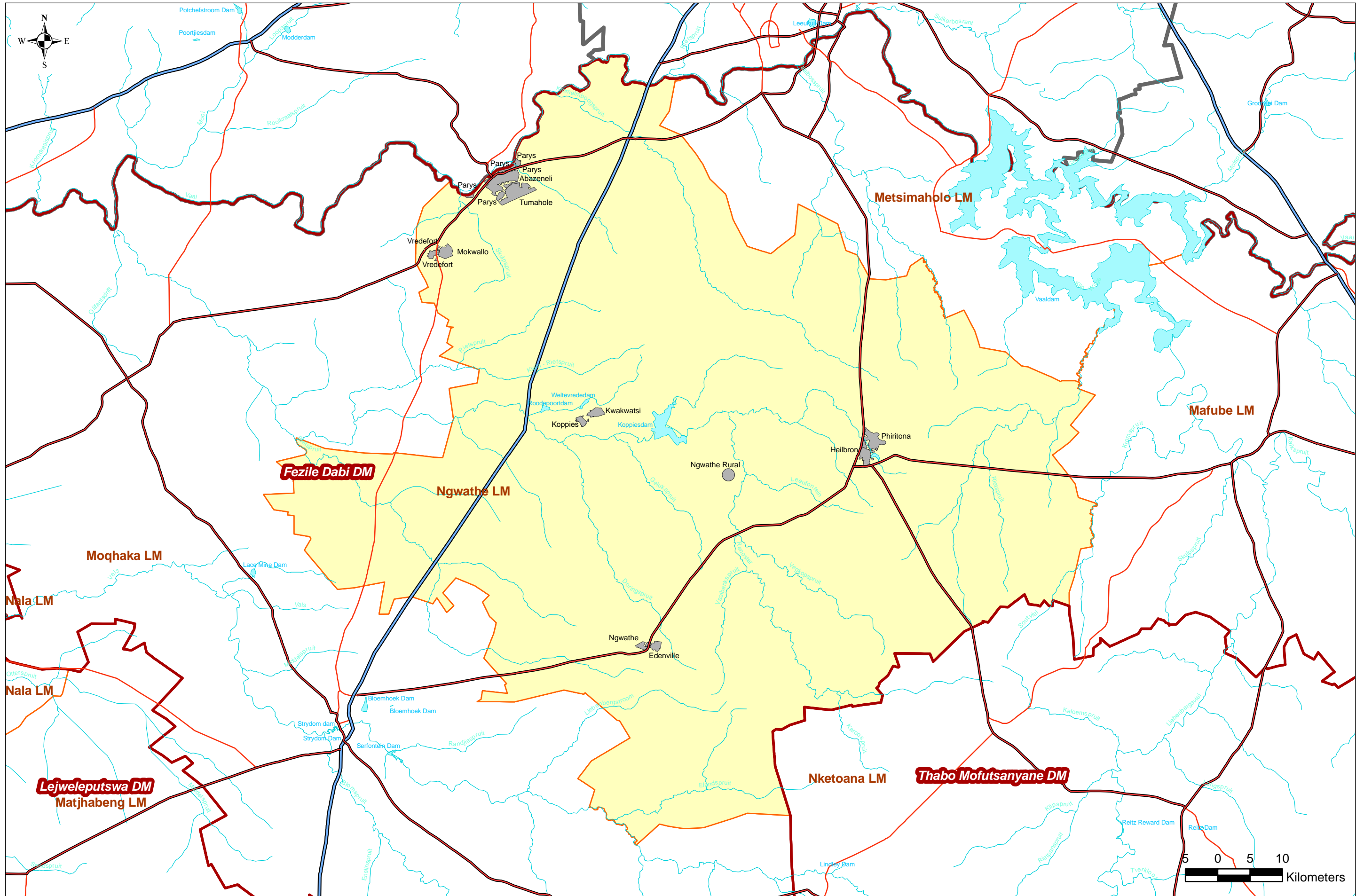
NOTES:

1) Cost to Eradicate is derived from tariff structure per backlog per settlement.

2) MIG allocation sourced at http://www.dwa.gov.za/dir_ws/wsnis/, MIG allocation assumed to be identical in following financial year.

FREE STATE PROVINCE: NGWATHE LOCAL MUNICIPALITY WSA															
Categorisation	Reason for not Achieving Targets (Complete for Medium & Long Term)			WSA Readiness (G: Good; A: Average; P: Poor)									Will Achieve Targets Institutionally Y - Yes N - No W - With Assistance	Will Achieve Targets with Assistance	
	Funding Allocation Shortfall (Y/N)	Willingness/Commitment (Y/N)	Bulk Dependant (Y/N)	Relationship/Partnership	Ownership	Commitment	Performance	Knowledge	Strategy	Action Plan	Actions & Delivery	Delivery Mechanisms		Y/N	If.... Then?
	1	N													
2	Y			A	A	A	A	A	A	A	A	A	N	N	LMs are not budgeting for shared services (need strategy & funding through housing programs & Informal Settlement formalization + HLOS)
3	Y			A	A	A	A	A	A	A	A	A	N	N	LMs are not budgeting for shared services (need strategy & funding through housing programs)
4															
5															
6															
7	Y	Y	Y	A	A	A	A	A	A	A	A	A	Y	Y	LMs are currently not budgeting for farmworkers; DMs to assist (need special fund) + refurbishment critical factors
8															
9	Y	Y	Y	A	A	A	A	A	A	A	A	A	N	N	Huge Refurbishment Backlog must be addressed through proper funding & training of staff
10															

NOTES:



LM	Settlement ID	Settlement Name	Main Type	Type	December 2008			December 2011		
					Pop	HH	HH Size	Pop	HH	HH Size
Ngwathe Local Municipality	04FS203_002	ABAZENELI	Urban	Squatter Camp - Urban	321	106	3.03	1276	421	3.03
Ngwathe Local Municipality	04C70G001	EDENVILLE	Urban	Urban - Formal Town	903	298	3.03	1074	307	3.5
Ngwathe Local Municipality	04C70C001	HEILBRON	Urban	Urban - Formal Town	3100	1023	3.03	3689	1054	3.5
Ngwathe Local Municipality	04C70E001	KOPPIES	Urban	Urban - Formal Town	1076	355	3.03	1281	366	3.5
Ngwathe Local Municipality	04C70E002	KWAKWATSI	Urban	Urban - Former Township	8569	2828	3.03	10731	3066	3.5
Ngwathe Local Municipality	04C23C004	MOKWALLO	Urban	Urban - Former Township	6427	2121	3.03	13220	3777	3.5
Ngwathe Local Municipality	04C70G002	NGWATHE	Urban	Urban - Former Township	3851	1271	3.03	5324	1521	3.5
Ngwathe Local Municipality	04C70C004	Ngwathe Rural	Rural	Farming	16820	5551	3.03	19428	5551	3.5
Ngwathe Local Municipality	04C23C001	PARYS	Urban	Urban - Formal Town	9111	3007	3.03	10843	3098	3.5
Ngwathe Local Municipality	04C70C003	PHIRITONA	Urban	Urban - Former Township	20640	6812	3.03	20769	6134	3.5
Ngwathe Local Municipality	04FS203_001	PHIRITONA EXTENSION	Urban	Squatter Camp - Urban	909	300	3.03	497	164	3.03
Ngwathe Local Municipality	04C70C002	SANDERSVILLE	Urban	Urban - Former Township	2460	812	3.03	1232	352	3.5
Ngwathe Local Municipality	04C23C002	TUMAHOLE	Urban	Urban - Former Township	32545	10741	3.03	39168	11191	3.5
Ngwathe Local Municipality	04C23C003	VREDEFORT	Urban	Urban - Formal Town	2894	955	3.03	2205	630	3.5
Total					109,626	36,180		130,737	37,632	

C

SECTION 5: QUICK REFERENCE GUIDE
SETTLEMENT WATER NEEDS CLASSIFICATION

FREE STATE: NGWATHE WSA

DEMOGRAPHICS (December 2010)				FORMAL									INFORMAL		Categorisation (1-10)	Priorities (0-4)	
Settlement ID	Settlement Name	Population	Households	Adequate				Water Resources Needs (HH)	O&M Needs (HH)	Infrastructure Needs			No Services (HH)	Adequate (HH)			No Services (HH)
				House Connections (HH)	Yard Connections (HH)	Stand Pipes (HH)	Shared Services (HH)			Upgrades (HH)	Extensions (HH)	Refurbishmen t (HH)					
04FS203_002	ABAZENELI	1,276	421	0	0	0	0	0	0	0	0	0	0	421	0	2	0
04C70G001	EDENVILLE	1,074	307	186	121	0	0	307	0	0	0	0	0	0	0	9	2
04C70C001	HEILBRON	3,689	1,054	547	384	0	123	1,054	0	0	0	0	0	0	0	9	2
04C70E001	KOPPIES	1,281	366	223	143	0	0	0	0	366	0	0	0	0	0	7	2
04C70E002	KWAKWATSI	10,731	3,066	1,947	1,119	0	0	0	0	3,066	0	0	0	0	0	7	2
04C23C004	MOKWALLO	13,220	3,777	1,378	2,231	0	167	3,777	0	3,777	0	0	0	0	0	9	2
04C70G002	NGWATHE	5,324	1,521	637	884	0	0	1,521	0	0	0	0	0	0	0	9	2
04C70C004	Ngwathe Rural	19,428	5,551	2,819	2,024	0	477	0	0	0	270	0	0	0	0	7	2
04C23C001	PARYS	10,843	3,098	3,098	0	0	0	3,098	0	0	0	1,549	0	0	0	9	2
04C70C003	PHIRITONA	20,769	6,134	3,186	2,587	0	361	6,134	0	0	6,134	0	0	0	0	9	2
04FS203_001	PHIRITONA EXTENSION	497	164	0	0	0	0	0	0	0	0	0	0	164	0	2	0
04C70C002	SANDERSVILLE	1,232	352	181	163	0	8	352	0	0	0	0	0	0	0	9	2
04C23C002	TUMAHOLE	39,168	11,191	5,316	3,736	0	2,139	11,191	0	0	0	0	0	0	0	9	2
04C23C003	VREDEFORT	2,205	630	606	24	0	0	630	0	630	0	0	0	0	0	9	2
Total		130,737	37,632	20,124	13,416	0	3,275	28,064	0	7,839	6,404	1,549	0	585	0		