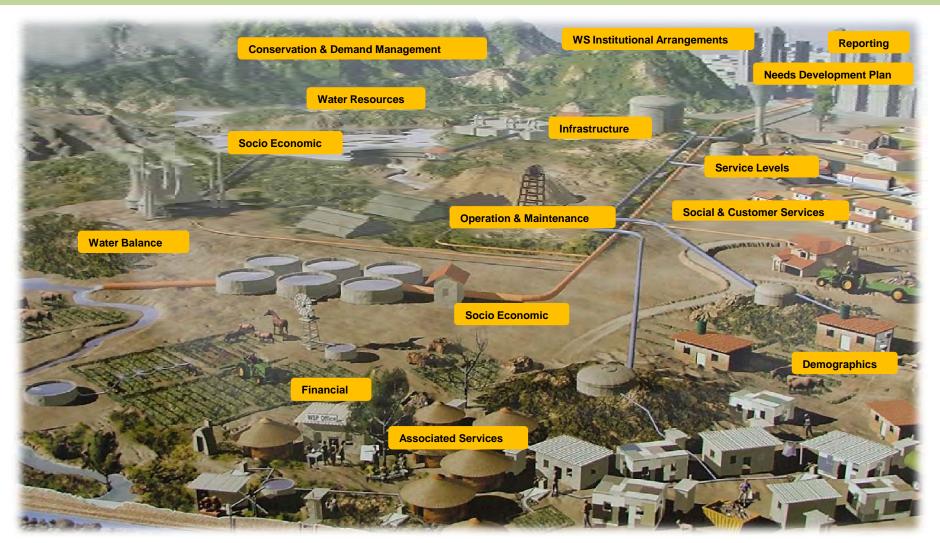
WATER SERVICES DEVELOPMENT PLAN

Moqhaka Local Municipality 2012

Module 1: Overview and Assessment of the Status of Information and Strategies on a WSA Level



Document Date: FEBRUARY 2012





THE WATER SERVICES BUSINESS

MOQHAKA LOCAL MUNICIPALITY

WSDP 2012

DRIVERS

CLIENT

NEEDS



ASSETS

RESOURCE DEVELOPMENT

INFRASTRUCTURE



MANAGEMENT

EFFECTIVE MANAGEMENT

- Water Use
- Conservation & Demand Management
- Finance
- Social & Customer Services Requirements
- Return Flow
- Sanitation



PLANNING & REPORTING

NEEDS DEVELOPMENT PLAN









WSDP TOPICS

INDEX

	Page Nr.	
1. Administration	2	1
2. Demographics	4	,
3. Service Levels	5	(
4. Socio Economic Background	9	-

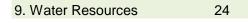


10



5. Water Service Infrastructures





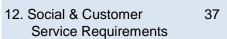


8. Conservation & Demand	19
Management	
10. Financial	28











13. Needs Development Plan	3
(Program List)	



14. F	Reporting	40







MOQHAKA LOCAL MUNICIPALITY

WSDP 2012

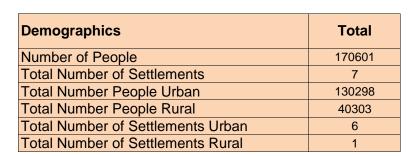
People

What is the WSA's Vision & Mission Statement on Water Services?



What are their needs regarding water?





for social

Vision & Mission Statement:

economic growth and sustainable development

Vision: To be a Municipality that creates enabling and safe environment

Mission: To maintain and enhance quality of life by providing effective, efficient and affordable services equitably and facilitating sustainable

social economic growth through active community participation.









Mayor









			***	-
Water Category	Water Need Description	Settlements	Population	Households
10	No Service			
7	Infrastructure Upgrade	3	94294	24178
7	Infrastructure Extension	3	17227	4306
7	Infrastructure Refurbishment			
6	O&M Need (Total Settlement)			
5	Water Resource Needs			
8	Infrastructure O&M Need			
9	Infrastructure & O&M Need & Water Resource Needs			
Adequate:	Stand Pipe			
Adequate:	Yard Connection			
Adequate:	House Connection	5	26636	6716
Informal Below	No Service			
Informal Adequate	Temporary Services Provided			



MOQHAKA LOCAL MUNICIPALITY

WSDP 2012

What are their needs regarding sanitation?



What is our water availability status to supply all the needs?

Sanitation Category	Sanitation Need Description	Settlements	Population	Households
10	No Service			
7	Infrastructure Upgrade	3	17107	4079
7	Infrastructure Extension	3	10601	2524
7	Infrastructure Refurbishment	3	14905	3822
6	O&M Need (Total Settlement)			
5	Water Resource Needs			
8	Infrastructure O&M Need			
9	Infrastructure & O&M Need & Water Resource Needs			
Adequate:	Waterborne	5	86485	21806
Adequate:	Waterborne Low Flush			
Adequate:	Septic Tanks / Conservancy			
Adequate:	Non-Waterborne	4	19837	4850
Informal Below	No Service			
Informal Adequate	Temporary Services Provided			





Water sources	Number of sources	Current abstraction (MI/Dav)	Licensed abstraction (MI/Dav)
Groundwater	18		
Surface Water	6	17057	
External Sources (Bulk purchase)			
Water returned to resources			
How much water is re-used (Recycled Water)	0	0	0









MOQHAKA LOCAL MUNICIPALITY

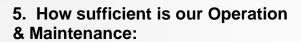
WSDP 2012



4.1. How does the infrastructure picture look in my WSA to distribute water to our people?







- 5.1. Do we have enough people to perform the function?
- 5.2. What is the % infrastructure not working due to O&M?
- 5.3. What is the problem?



Topic 5: Water Infrastructure	<u>Total</u>
Total Number of Schemes	3
Total bulk pipeline km.	187
Total Number reservoirs	17
Total Number pump stations	36
Total Number of Water Treatment Works	3
Total Number of Waste Water Treatment Works	4

The general condition of WWTW		<u>Total</u>		
Estimated cost to Upgrade	R	214 000 000.00		
Estimated cost to Refurbish	R	11 180 000.00		
3. Existing Budget	R	11 180 000.00		

>	Topic 6: Operation & Maintenance	<u>Total</u>
	Total Number of O&M staff	
	Total Number of O&M staff sufficient? Yes/No	
	Total Number of O&M staff required	
	Statement on population and effluent release	

Define the Problem

One of the prominent problems in the Municipality is the shortage of funds, lack of skill and technical staff. This municipality generally operates on crisis management with no water balance or WDM strategy in place. At present the chief priority for the personnel is to provide water for the consumers, and there appears to be no capacity or funds for much else. New posts are available, but not posted. O&M is performed, but not where needed. There is also a lack of equipment to perform tasks and there are no operating standards for the reservoirs in the towns and the reservoirs are operated purely on experience.

Statement on Polution and Effluent Release

There are currently no WCWDM activities and/or plans or and active leakage control programme in place. Effluent is either treated and used for irrigation or discharged into the Vals River or a wetland.





6. Do I pollute my environment



WS infrastructure?

7.3. What is the shortfall?





Fopic 8: Conservation & Demand Management	
·	Y/N
Does the municipality have a Water Conservation Demand Management Plan(WCDM)?	N
Does the municipality have a strategy to meet 2014 targets?	N
s there an internal budget?	Υ
Does the minicipality apply through IDP funds for WCDM?	Y







Topic 10: Financial

Total Water Services Budget:

R 38 994 919.00

Is the budget enough to eradicate backlog and maintain the WS infrastructure? (Yes/No)

N

Shortfall:

R 3 500 000.00









WSDP 2012

8. Do we have plans and projects in place to address the water services issues and requirements?



PROJECT NAME	Total Funds on Budget for Project	PROJECT NAME	Total Funds Budget for Project	
ACTIVE PROJECTS : MIG2011/2012 ; RBIG ; ACIP	Fioject	Rammulotsi old GMS to be replaced	R 1 500 00	20.00
Kroonstad and Viljoenskroon:Upgrade Treatment Plants-Ph 2	R 3 350 000.00	Matlwangtlwang add storage (600 stands possible)	R 1600 00	
Matlwangltlwang: Lining of oxidation ponds phase 2		Kroonstad: Rehabilitation of pipeline-17.5km pipeline	R 10 653 47	
Maokeng: Rehabilitation of main collector sewers		Rep of valves , Installing new meters, Rep faulty metres	R 8 000 00	
Northleigh: Sewer netwk 4000 new res erf -42.4km main outflw In	R 72 000 000.00		10 000 00	70.00
Moghaka:WTW (Kroonstad)	R 6 600 000.00			
Moghaka Bulk Water Supply	R 130 000 000.00			
Constantia & Brentpark: Inst of Wet Services for 670 erven	R 6 030 000.00			
Moghaka: Inst wet service 670 new erven	R 7 398 344.00			
Kroonstad, Viljoenskroon, Steynsrus: Rehab, upgrade puri plants	R 9 368 909.00			
CONCEPTUAL & AWAITING FUNDING PROJECTS	10 000 000.00			
Rammolotsi: Building of 650 toilet structures on existing slabs	R 2 021 052.00			
Moghaka: Construction of toilet structures	R 2 200 000.00			
Matlwangtlwang:Upgrade VIPÆs to waterborne developed	R 32 000 000.00			
Bucket Eradication : 20 Matlwangtlwang	R 800 000.00			
Moghaka:Rehabilitation of Sewage System	R 5 000 000.00			
Rammolotsi: Upgrade bulk sewerage infra for pumpstation	R 800 000.00			
Upgrading of Sewerage Network - Seeisoville / Marabastad	R 1 725 000.00			
Replacing of main outfall sewer line in Kroonstad	R -			
Northleigh:Sewer netwk 2200 new res erf -42.4km main outflw In	R -			
Northleigh: Sewer netwk 2000 new res erf-42.4km main outflw In	R -			
Moqhaka Municipality:San Internal Bulk Ref (group est)	R 78 502 000.00			
Matlwanglwang: Constr of sewer outfall -1.15km outflow In	R 1 970 664.00			
Upgrading of Kroonstad & Viljoenskroon WWTW phase 2	R 3 350 000.00			
Kroonstad & Viljoenskroon: Refurbishment of the WWTW ph 3	R 2 587 004.70			
Viljoenskroon 5-6 diam sewer line 160 diam	R 1 375 000.00			
Kroonstad STP not before 2010 (12 MI)	R 17 543 860.00			
Part of GW Development in Steynsrus	R 9 100 000.00			
Moqhaka Municipality - Water Internal Bulk Ref (group est)	R 61 680 000.00			
Relocation, upgrading 700m bulk water pipeln to Phomolong	R 2 756 400.00			
Viljoenskroon: Augmentation of water supply to the ind area	R 1 833 428.00			
10 MI reservoir in Maokeng	R 8 000 000.00			



Λ	SD	P:	Str	ate	qic	Ov	ersigh	t
---	----	----	-----	-----	-----	----	--------	---

-	`	

WSDP 2012

$\overline{}$						
C	റ	m	m	e	nı	r.c

The project summary (i.e. Number of and Allocated Funds) only indicates current projects for the current year (2011-2012).

	Total Funds on		Total Funds on
PROJECT NAME	Rudget for	PROJECT NAME	Rudget for
TROCEOT NAME	Total Funds on Budget for Project	T NODEOT NAME	Total Funds on Budget for Project
	Froject		Froject





MOQHAKA LOCAL MUNICIPALITY

WSDP 2012

Critical Developments & Associated Factors that impacts our Area for the Immediate Future

Urban versus Rural Backlogs

Rural backlogs at this stage not looked at. All backlogs pertain to the urban areas.

Reliance on Water Resources available and Bulk Infrastructure

Crisis in Steynsrus and Viljoenskroon with major water shortages. In Steynsrus shortages due to increase in demand and the installation of waterbourne sanitation. Vips was replaced with waterbourne. Viljoenskroon due to higher demand.

Links between Water Supply & Sanitation

Crisis in Steynsrus and Viljoenskroon with major shortages. In Steynsrus shortages due to increase in demand and the installation of waterbourne sanitation. Vips was replaced with waterbourne. Viljoenskroon due to higher demand. With new erven being planned (4200 erven) the Waste treatment plant will not be sufficient and capacity will have to be increased.

Limited Implementation & Operating Capacity in Some Municipalities

Staffing is inadequate, budget restraints and skill amongst workers are concerns. New posts available but not posted. Operation and maintenance is performed but at this stage not where it is supposed to be. Also lack of equipment to perform tasks.

WSDP 2012

Critical Developments & Associated Factors that impacts our Area for the Immediate Future

Available Funding

Operation and Maintenance budgets is available but not sufficient on all aspects of water. Funding for capital projects to attend to critical failures insufficient.

Affordability of Service Levels (O&M Costs)

Within acceptable standard. No issues.

Growing Backlog in Refurbishment of Existing Infrastructure

Due to capital funding not available for critical failures impact on infrastructure. Infrastructure aged and outdated and major refurbishment required such as replacement of AC pipes with new PVC pipes.

Major Economic Development

No new major economic development that will affect the water usage or the water quality.

Associated Population Growth & Water Demand

Problems in Steynsrus and Viljoenskroon due to the growth of the communities. This and the fact that the sanitation has been upgraded to waterbourne in Steynsrus creates huge water shortages in these areas. Kroonstad has positive growth but water is sufficient. No demand management programme in place but study was done 5 years ago that is being used for planning which is partially implemented.

WSDP 2012

An Overall Critical Self Evaluation of the Overall WSDP Knowledge Base

How does my WSA fare regarding knowledge and information of the building pillars of the Water Services
Business?

A % summary evaluation derived from the WSDP Document C Module 1 per topic

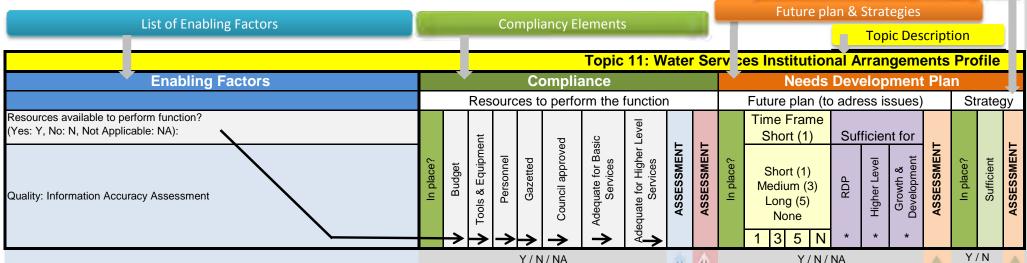




OVERALL QUANTITY ASSESSMENT

OVERALL QUALITY ASSESSMENT

Module 1: Concept Explanation and Description page



INDEX: List of Topics

- 1. Administration
- Demographic
- Service Levels
- Socio Economic Background
- Infrastructure
- **Operation & Maintenance**
- **Associated Services**
- **Conservation & Demand Management**
- **Water Resources**
- 10. Financial
- 11. Water Services Institutional Arrangements
- 12. Social & Customer Service Requirements
- 13. Needs Development Plan
- 14. Reporting

Each Topic has its own enabling factors that will make the Topic work

Quality Assessment

Assessment of Current Status measured against compliancy requirements None 0%

SE SE

Limited 20%

Partial 40% Good 60% Excellent 80%

Quantity Assessment

An indication of the representation of total area to address the issue

None: 0% Limited 20% Partially: 40%

Good coverage: 60%

Available for whole area: 80%

is there a Future Plan in Place?

(Physical document that addresses issues & shortcomings)

Implementation Strategy

Is there an Implementation Strategy in Place?

(Must be a implementation plan of action that reflects in the budget with a time line)

General Assesment

on Scale 1-5 None 0% Limited 20% Partial 40% Good 60% Excellent 80%





						Status T	racking of	WSDP					
	YEAR 1 YEAR 2			YEAR 3 YEAR 4					YEAR 5	YEAR 6			
Status	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	Modules: All/1/2/3 or 4	Date Submitted	
Interim													
Draft	1	31 January 2012											
Adopted													
Annual Review													
Public Viewed													

Role Players Contact Details

POSITION	PERSON	TEL	FAX	CELL	EMAIL	Interaction Acknowledgement Yes / No	Interaction Acknowledgement Signature
Municipal Manager	Mr. MS Mqwathi	056 216 9378	056 216 9105	083 331 6413	mms@moqhaka.gov.za		
Executive Mayor	Mr.J Mohapi	056 216 9102	056 216 9145	083 627 2923	execmayor@moqhaka.gov.za		
Water services Councillor	Mr. P Thipane	056 216 9108	056 216 9145	073 819 7866			
WSDP Contact	Mr. H. Rautenbach	056 216 9255	056 216 9123	083 534 4274	hennie@moqhaka.gov.za		
IDP Manager	Mr T Leie	056 343 9400	056 343 2505	072 573 3782			
PIMSS Senior Planner							
Technical Services	Mr. TM Lelaka	056 216 9121	056 216 9123	083 619 1942	rentia@moqhaka.goc.za		
Treasurer	Mr. MP Mokoena	056 216 9141	056 216 9146	082 821 4682	monahengm@moqhaka.gov.za		
WSDP Data Custodian	Mr. H. Rautenbach	056 216 9255	056 216 9123	083 534 4274			
WSDP Custodian	Mr. H. Rautenbach	056 216 9255	056 216 9123	056 216 9123	hennie@moqhaka.gov.za		
Data official							
Acting Mayor							
Acting Municipal Manager							
PMU Manager	Me CP Botha(Coordinator)	056 216 9228	056 216 9123	056 216 9123	petro@moqhaka.gov.za		
Chief Financial Officer	Mr. MP Mokoena	056 216 9141	056 216 9146	082 821 4682			
Acting Chief Financial Officer							
Mayor							
Housing	Mr.H Nhlapo	056 216 9310	056 216 9117	056 216 9117	almarie@moqhqka.gov.za		
Environmental	Me MC Sepheka	056 216 9150	056 216 9308		soso@moqhaka.gov.za		
Infrastructure	Mr. TM Lelaka	056 216 9121	056 216 9123	083 619 1942			
SALGA					* BASELINE INFORMAT	TION: COMPULSORY FIELD	s 2



Topic 1: Administration

Professional Service Provider (PSP)

Compa	any				Pula Sti	ula Strategic Resource Management (Pty) Ltd							
Name	of PSP WSDP	Project Ma	ınager		Alet Mc	et McCully							
Tel:	012 424 (0900	Cell:	083 228 5260	Fax:	012 460 1205		E-mail:	alet@pula.co.za				
Inputs													
Compo	onents	Chapter		Name	Designa	ntion	Role	Contact ac	ddress, and number				

Name of PSP WSDP Information Systems Operator

Alet McCully

 Tel:
 012 424 0900
 Cell:
 083 228 5260
 Fax:
 012 460 1205
 E-mail:
 alet@pula.co.za

* Sector Integration

Did this plan consult with other Sector Plans and incorporated their needs

* Sector	* Inter- action	* To which extend was it calculated? (Refer to Page 1: General Assessment on Scale 1-5)
Agri-Culture	80%	Main source of income.
Mining	80%	De Beers mining contributes towards projects in the area, i.e. Roads, etc. They have their own sewerage works and their is on-going interaction.
Tourism	75%	Their is considerable tourism in the area and ongoing interaction.
Other 1:	80%	Premier Foods has a large mill in the area and a very good relationship exists. There are talks about a large bakery. There are also a number of Abbatoirs
Other 2:		
Other 3:		
Other 4:		

Comments



~						Тор	ic 2: D	emograp	hics F	Profile
	SETTLEMENT DEMOGRAPH	HICS		Assessment	Assessment				Assessment	Assessment
* 2.	1 Total Population	170601				Public Amenities Consum	or Tyr	200		
* 2.:	Total number of households	43015				Fublic Amenities Consum	ісі іур	163		
* 2.:	Average household size	3.93								
	nformation Accuracy Assessment						ties			
Quantity:	Assessment of Information Completeness					2.5 Social Services type	of facilities	(На		
2.4 Settle	ment Type	Number of settlements	Population per settlements type			2.3 Social Services type	No. of f	Area (Ha)		
Farming	Farming	1	40303	60%	60%	Police Stations	5		70	80
	Metropolitan Area			80	80	Magisterial Offices	3		70	80
	Urban - Formal Town	3	27405	60	60	Schools	124		70	80
Urban	Urban - Former Township	3	102894	60	60	Health Facilities	19	-	70	80
Orban	Urban - Informal Settlements (Squatter Camp)			80	80	Prisons	4		70	80
	Working Towns & Service Centres - Mines, Prisons etc.			80	80	Industries	2		70	80
	Urban	6	130299	72%	72%	Mining	12		70	80
	Rural - Dense Village > 5000			80	80	Resorts and tourism			0	0
	Rural - Small Village <= 5000			80	80	Agriculture dry land	_	332592	60	60
	Rural Scattered			80	80	Agriculture irrigation	_	1177	60	60
Rural	Rural Scattered Dense			80	80	Agr. Intensive livestock/grazing	-	678916	60	60
	Rural Scattered Low Density			80	80	Agr. Extensive livestock/grazing		0	60	60
	Rural Scattered Very Low Density			80	80	Conservation areas			0	0
	Rural - Informal Settlements (Squatter Camp) Rural		0	80	80			TOTAL	56%	62%
Comment	F1 F1	0	0	80%	80%					
Even with and surror formally la and the S regularly f urban unit are establ	Kroonstad as the 3rd largest town area in the FS, all the CB unded by urban free-standing housing and extensive lower-indid out and no evidence of informal dwellings on the fringes. In chool of Engineers Military bases are situated in Kroonstad, fluctuate depending on the intake by these institutions at every, is located within an area of extreme agricultural significance ished in the Viljoenskroon industrial area. The Town Area plat opportunities to the adjacent Goldfields and other mining according to the significant of the significant content of the si	ncome housing. The Department hence the popul ry season. The v e and industrial ays a significant	The Towns are largely to f Correctional Service lation of Kroonstad wo Viljoenskroon/Rammu complex of which Senrole in providing	y ces ould lotsi						
						OVERALL QUALITY ASSESSMENT			67%	
						OVERALL QUANTITY ASSESSMENT				68%
(7)										



MOQHAKA LO	OCAL MUNICIPALIT	гү						WSD	P 2012										
Topic 3: Servi	ice Levels Profile																		w
			Enabling Factors											s Deve			an	01	
												Time F	plan (to a		ssues) ufficien			Str	ategy
												Tillie	Tame		difficien	101			
		21 SE	TTLEMENT WATER SERVICE LEVEL	DEEINITIONS	2			EN	ASSESSMENT			Short	(1)		Ne.	& nent	ASSESSMENT		EN
		3.1 JL	TELMICIAT WATER SERVICE LEVEL	DEI INTTION	,			SSM	SSM	ce3		Mediu		RDP	1 2	h th	SSM	ce?	SSM
								SSE	SEE	pla r		Long		Œ	Higher Lev	Grov	SSE	in pla	Sufficient ASSESSMENT
								¥	¥	_		Nor	ne		-		¥	_	33 84 N
Quality: Inform	nation Accuracy Ass	essment									1	3	5 N	*	*	*			
Quantity: Asse	essment of Information	on Completeness				I						٦	3 14						
DE	FINITION	CLASSIFICATION	DESCRIPTION	CATEGORY	SETTLEMENTS	POPULATION	HOUSEHOLDS	%	%				Y / N / N/	١			%	Y/N	۱ %
FORMAL		No Service	Whole community never had any formal	10 →	0	0	0	60	60	,,	.,		.,	.,	Ι.,	T .,	60	.,	n 40
ORIVIAL		NO Service	(municipal) water supply system.		U	U	U	00	80	у	у	У	У	у	у	У	60	у	n 40
			Existing infra not on RDP std.																
		Infrastructura I Ingrada	1.Network: too small pipes,																
		Infrastructure Upgrade	2.Storage: Add to exist / elevation																
			3.Source: Infra to increase exist yield																
			Communities have grown structurally and there	$\overline{2}$	3	111521	28484	60	60	у	у	у	у	у	у	у	60	у	n 40
			are households that do not have water : TOTAL		3	111321	20404	00	00	y	у	y	y	y	y	y	00	y	11 40
		Infrastructure Extension	1.Network: new infra																
			2.Storage: new & adjacent	8															
		L.C. C. D.C. List	Water can be restored to RDP by:																
		Infrastructure Refurbishment	Repair/Replace with same existing infra	9															
			(Total Settlement)																
	DEL OW		Water can be restored to RDP (where infra ok)																
	- BELOW	O&M Need (Total Settlement)	by: enough & efficient staff and sufficient funds	6				60	60	У	у	У	у	У	у	у	60	у	n 40
			for O&M (incl. eg: quality at wtw, machines																
			working, etc)																
			Includes Source Development																
			Local Available Source: New BH, pipe																
		Water Resource Needs	Conserving & Demand Management Needs	5				60	60	У	у	У	у	У	у	у	60	у	n 40
			Water Source Quality																
			Drinking Water Quality																
		Infrastructure & O&M Need		8				60	60								60		n 40
		illiastructure & Odivi Need						60	60	у	у	У	У	У	У	У	60	у	n 40
		Infrastructure & O&M Need &						00	00								00		
		Water Resource Needs		9				60	60	У	У	У	У	У	У	У	60	у	n 40
			TOTAL	FORMAL NEED	3	111521	28484	60%	60%						,		60%		40%
		CtandDing			,								1		1				
	- ADEQUATE	StandPipe Yard Connection	Adequate Infra Adequate Infra	1(C)/3 1(B)/3	6	5918 113563	1414 28890	60 60	60 60	y	y y	y	y	у	y	y	60 60		n 40 n 40
	ADEQUATE	House Connection	Adequate Infra	1(A)/3	U	45072	11271	60	60	y	y	y	у	У	V	У	60		n 40
				MAL ADEQUATE	6	164553	41575	60%	60%	,	,	, ,			, ,	,	60%	,	40%
INFORMAL	- BELOW	No Services	Permanent Housing must be provided	4	0	0	0	60	60	у	у	у	у	у	у	у	60	у	n 40
ORWAL				2		0				y					у	у			
	- ADEQUATE	Temporary Services Provided	Permanent Housing must be provided		0		0	60	60	У	у	У	у	у	У	У	60	у	n 40
				TOTAL NEED	3	111521	28484	61%	61%								30%		20%
			то	TAL ADEQUATE	6	164553	41575	61%	61%								30%		20%

	MOQHAKA LOC	AL MUNICIPALITY										١	WSDP 20	12					
т																		ce Leve	ls Profile
			Enabling Factors											s Deve		nt Pla	an		
												Future Time F	plan (to a		ssues) ufficient	for		Stra	ategy
												Time F	rame	50	Jilicient	101			
		3.2 SETTI	LEMENT SANITATION SERVICE LEVI	EL DEFINITIO	NS			ASSESSMENT	ASSESSMENT	In place?		Short Mediur Long Nor	m (3) (5)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient ASSESSMENT
	nation Accuracy Asse										1	3	5 N	*	*	*			
DE	FINITION	CLASSIFICATION	DESCRIPTION	CATEGORY	SETTLEMENTS	POPULATION	HOUSEHOLDS	%	%				Y/N/NA				%	Y/N	%
FORMAL		No Service	Whole community never had any formal (municipal) sanitation supply system.	10 →				60	60	у	у	у	у	у	у	у	60	у	n 40
		Infrastructure Upgrade	Existing infra not on RDP std. Typically, unimproved pit or chemical toilet Communities have sanitation but below the minimum standard. This will normally be a bucket or an ecological toilet. Communities at RDP standard but not appropriate due to local circumstances e.g. shallow ground water levels Community partially served to RDP leve	7 8	3	42612	10424	60	60	у	у	у	У	У	у	у	60	у	n 40
			Sanitation can be restored to RDP by:	9															
		Infrastructure Refurbishment	Repair/Replace with same existing infra																
	- BELOW	O&M Need (Total Settlement)	Sanitation can be restored to RDP (where infra ok) by: enough & efficient staff and sufficient funds for O&M (incl. pit-emptying, + appropriate actions for waterborne)	6				60	60	у	у	у	у	у	у	у	60	у	n 40
		Water Resource Needs	Adequate Infra but not working due to inadequate water in the system.	<u>⑤</u>				60	60	у	у	у	у	у	у	у	60	у	n 40
		Infrastructure & O&M Need		8				60	60	у	у	у	у	у	у	у	60	у	n 40
		Infrastructure & O&M Need & Water Resource Needs		9				60	60	у	у	у	у	у	у	у	60	у	n 40
			TOTAL	FORMAL NEED	3	42612	10424	60%	60%				•				60%		40%
		Waterborne	Adequate Infra	1(A)/3		122979	31542	60	60	.,	.,	v		V		v	60	v	n 40
		Waterborne Low Flush	Adequate Infra	1(A)/3 1(B)/3		122919	31342	60	60	v	v	V	y	V	v	y	60	,	n 40
	- ADEQUATE	Septic Tanks / Conservancy	Adequate Infra	1(C)/3	5			60	60	V	V	У	V	V	V	V	60		n 40
		Non Waterborne (VIP)	Adequate Infra	1(D)/3		19837	4850	60	60	V	V	V	V	y	V	y V	60		n 40
		inton traterbonne (vii)		MAL ADEQUATE	5	142816	36392	60%	60%	,	,		1		, <u>y</u>	<u> </u>	60%	, ,	40%
	- BELOW	No Services	Permanent Housing must be provided	4				60%	60%	v	у	у	у	у	у	у	60%	у	n 40%
INFORMAL	- ADEQUATE	Temporary Services Provided	Permanent Housing must be provided	2				60%	60%	у	у	У	у	У	у	у	60%		n 40%
				TOTAL NEED	3	42612	10424	60%	60%		. ,			, ,			60%	, ,	40%
			то	TAL ADEQUATE	5	142816	36392	60%	60%								60%		40%

* BASELINE INFORMATION: COMPULSORY FIELDS 6

SALGA

WSDP 2012 MOQHAKA LOCAL MUNICIPALITY Topic 3: Service Levels Profile **Enabling Factors Needs Development Plan Compliance** Future plan (to address issues) Strategy Adequate for Basic Services Adequate for Higher Level Services Time Frame Sufficient for 3.3 Residential, Public Institutions and Industries ASSESSMENT ASSESSMENT Growth & Development ASSESSMENT Higher Level Sufficient In place? Short (1) RDP Medium (3) Long (5) None Quality: Information Accuracy Assessment 3 5 Ν Quantity: % % Y/N/NA % Y/N % No. Of consumer units with access to: **Public amenities** No. Of consumer None or inadequate Supply Type Controlled volume Uncontrolled units (H-H) consumer types Communal supply volume supply supply Water Sanitation Urban 33419 0 99 0 21954 11465 60 60 60 n 40 n * Residential Rural 9596 1440 6524 0 0 8156 у n 60 60 У у У У у У У 60 У n 40 Urban 5 0 0 0 0 0 60 60 60 n 40 У n У У У у Police Stations У Rural 0 0 0 0 0 60 60 60 40 У n У У У У У n 3 Urban 0 0 0 0 0 n 60 60 У n 40 Magistrate offices Rural 0 0 0 0 0 0 60 60 60 у n 40 У У 40 Urban 1710 0 0 0 0 0 60 60 У У У У У У У 60 У n n Businesses Rural 0 0 0 0 0 0 60 60 у у у у у 60 у n 40 n Urban 0 0 0 0 0 0 60 60 У у У у У У 60 у n 40 n У "Dry" Industries 0 0 0 0 60 Rural 0 0 60 60 40 У У ٧ У У У ٧ У n 0 0 60 40 Urban 0 0 0 60 60 у 0 У n У У У У У У n Office Buildings Rural 0 0 0 0 0 0 60 60 60 40 У n У У У У У У У У n Urban 4 0 0 0 0 0 60 60 У У У у У У 60 У n 40 У n У Prisons Rural 0 0 0 0 0 0 n 60 60 У у у 60 n 40 Urban 41 0 0 0 41 0 60 60 У У 60 у n 40 У У У Schools Rural 83 0 49 0 0 34 60 60 у У 60 n 40 Urban 2 0 0 0 2 0 60 60 60 40 У У У У У у n n Hospitals 0 0 0 0 0 60 40 Rural 0 60 60 У у У у У У У У n n 15 7 7 Urban 0 15 0 60 60 60 40 n У У у У У У n Clinics 0 0 0 40 Rural 0 0 0 60 60 У у У у У 60 У n n У У 2 2 Urban 0 1 0 0 60 60 60 40 У У У У n Health Centres Rural 0 0 0 0 0 0 60 60 у у у 60 у n 40 У n У У у У 0 0 60 Urban 0 0 0 0 У 60 у У у у у У 60 у n 40 n У "Wet" Industries 0 0 0 0 0 0 60 60 60 n 40 Rural У n У У у Urban 35201 107 0 22014 11465 Total Rural 9679 1440 6573 0 0 8190 60%

TOTAL

60%



		Tonic '		
		Needs Developme		evels Profile
		Future plan (to adress issues)	ill Flall	Strategy
ASSESMENT	ASSESSMENT		ASSESSMENT	ASSESSMENT
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
60%	60%		60%	40%
		NEEDS DEVELOPMENT PLAN	N ASSESSMENT	
			60%	
			Strategy	40%
			<u> </u>	
		OVERALL QUANTITY ASSES	SMENT	60%
				60%
	60% 60% 60% 60% 60% 60%	60% 60% 60% 60% 60% 60% 60% 60% 60% 60% 60% 60%	60% 60% 60% 60% 60% 60% 60% 60% 60% 60%	60% 60% 60% 60% 60% 60% 60% 60% 60% 60%

MOQHAKA LOCAL MUNICIPALITY Topic 4: Socio Economic Background										4
Socio Economics										
Quality of Information Assessment										
Quantity: Assessment of Information Completeness										
4.1 General				4.5 Household income						
4.1.1 Present population	170601	60	60	Definition of poor household by the	municipality			% Population		
4.1.2 Current population growth rates	0.006	20	60						_	
4.1.3 Projected Population growth rate: 5 years	0.006	20	60					201	0	0
4.1.4 Projected Population growth rate: 10 years	0.006	20	60					0%		
.,,		30%	60%							
4.2 Age and gender Profile				§ Monthly household Income (as pe	er StatsOnline)				50	60
4.2.1 Permanent resident population	170601	60	60	o R1 - R400				16613	50	60
4.2.2 Aged Residents (>65yrs)	9499	50	60	o R401 – R800				19965	50	60
4.2.3 Youth Residents (<18yrs)	64899	50	60	o R801 – R1600				8428	50	60
4.2.4 Male Residents	84972	50	60	o R1601 or more				17417	50	60
4.2.5 Female Residents	85628	50	60	o Collective living Quarters					0	0
		52%	60%	3 444						
4.3 Employment Profile				Water Affordability (Population not a	able to afford water	er)			0	0
4.3.1 Eligible Workforce (19 – 65 yrs)	42442	50	60	o Typical monthly Water Bill					0	0
1.3.2 Permanent residents – without jobs	28228	50		o Average % of monthly income			0%		0	0
1.3.3 Permanent farm workers	16121	50		Sanitation Affordability (Population	not able to afford	sanitation)	0,70		0	0
4.3.4 Permanent Industry workers	1378	50		o Typical monthly Sanitation Bill		,			0	0
4.3.5 Professional workers	0	0	0	o Average % of monthly income			0%		0	0
		40%	48%						21%	25%
				4.6 Economics						
				Economic Sector (As per Reserve	% Contribution	Total No of	No of Local	No of Migrating		
				Bank Quarterly Bulletins)	to Local GGP	Employees	Employees	labour		
							p.:07000			
4.4 Demographic trends and migration patterns				Agriculture, Forestry & Fishing	50%	9260			50	40
4.4.1 Permanent resident population	170601	60		Mining	28%	5148			50	40
4.4.2 Peak daily labour migration (-) out / (+) in	0	0		Manufacturing	16%	3072			50	40
4.4.3 Peak long-term labour migration (-) out / (+) in	0	0	0	Electricity, Gas & Water	0%	0			50	40
4.4.4 Permanent population changes (-) out / (+) in	0	0	0	Construction	6%	1194			50	40
4.4.5 Holiday Population	0	0	0	Insurance	0%	0			50	40
		12%	12%	Finance	0%	0			50	40
				Comments					50%	40%
				The high number of population helevy	the eas of 10 will b		allanga in futura ir	tormo of		
				The high number of population below provision of employment. The average			allenge in future ii	i terms or		
				provision of employment. The average	moome levels are	also very low				
				OVERALL QUALITY ASSESSMEN	NT .				34%	
				OVERALL QUANTITY ASSESSME						41%



MOQHAKA LOCAL MUNICIPALITY															WSDP 2	012	
un V														Topic 5: Water	Services Infr	astructi	ure Profile
Enabling Factors						Com	nplian	ice						Needs	Developme	nt Plan	
						Sta	tus Qu	JO						Future plan (to	address issues	s)	Strategy
							pipeline Sewer Bulk pipeline		วท	on				Time Frame	Sufficient for		
	<u></u>	n Ter		ns	2	Fumpstations Water Bulk	be	S	atic	atio		E	E		= ±	E	E
General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must be assessed and the Needs Development Plan section completed	vate	Abstraction	ø ≥	Water Pumpstations	m ±		o pi	Reservoirs	cul	cnl	WWTW	ASSESSMENT	ASSESSMENT	Short (1)	RDP Higher Level Growth & Development	ASSESSMENT	Sufficient ASSESSMENT
and the record and the record problem in the cost of the problem.	ndv	trac	* WTW	Water	Sewer	er E	pipeline er Bulk p	e S	teti	Reti	≥	SSI	SSI	Short (1) Short (1) Medium (3) Long (5)	RDP ligher Lev Growth & evelopme	lss	Sufficient SESSMEI
	Poul	ma(bs	j _	≥ ₫	N E	/ate	ar E	Ses	7.	¥	\$	SSE	SSE	Long (5) None	RDP Higher Lev Growth & Developme	SSE	Su Su
	Groundwater (Boreholes)	g <		J.	٥	รั≽) Me	ш.	Water Reticulation	Sewer Reticulation		⋖	∢	None		<	<
Quality: Information Accuracy Assessment							ű		>	ű				1 3 5 N	* * *		
Quantity: Assessment of Information Completeness					Υ/	/ N / NA						%	%	1/N/Y	NΑ	%	Y/N %
5.1 General Information				(N	o of C	Compor	nents)										
* 5.1.1 Is there an Asset Register Monitoring Programme Yes y No												60	60	у у у у	у у у	60	y n y
Does the plan address:	у	У	у	У	у	у	у	У	У	У	у	60	60				
* 5.1.2 Is there a disaster management plan Yes n No												0	0	n		0	0
Does the plan address:	n	n	n	n	n	n	n	n	n	n	n	0	0	n		0	0
* 5.1.3 Is there a Water Quality Plan To be obtained from Blue & Yes y No	у	у	у	у	у						у	60	60	y y y y	у у у	60	y n y
Does the plan address:					_					F	V	60	60	v v v v	v v v	60	y n y
*5.1.4 Is there a plan in place to manage untreated effluent Yes n No	n	n	n	n	n					-	n	0	0		1 1 1 1 1		, , ,
Does the plan address:	n	n	n	n	n						n	0	0				
5.1.5 Total number of components / km of pipeline / units	18	3	3	19	21	60	71	22	740	685	4	60	60				
5.1.6 VIP toilets TOTAL 807				1			_					40	60				
5.1.7 Other dry sanitation toilets (below RDP) TOTAL 0												60	60				
5.1.8 Septic tanks TOTAL 210												40	60				
Sub Topic 5.1 Compliancy & Needs Development Plans Assessment												37%	40%			36%	0%
5.2 Operation																	
5.2.1 Previous incidents including Security Problems (R: Regular, P: Periodic, S: Sporadic, N: None)	S	S	S	S	S	S	S	S	S	S	S	60	60	у у у у	у у у		y n y
5.2.2 Is the abstraction registered with DWA?	Υ	Υ										60	60	у у у у	у у у	60	y n y
5.2.3 Is abstraction recorded?	Υ	Υ										60	60	у у у у	у у у	60	y n y
5.2.4 Safety inspection performed (R: Regular, P: Periodic, S: Sporadic, N: None)	Р	Р	Р	Р	Р	P	Р	Р	Р	Р	Р	60	60	у у у у	у у у	60	y n y
5.2.5 Average Operating hours per day (X hrs)			24								24	60	60	у у у у	у у у	60	y n y
Sub Topic 5.2 Compliancy & Needs Development Plans Assessment												60%	60%			60%	0%
* 5.3 Monitoring & Sample Failure																	- 10
* 5.3.1 Monitoring & Sample Failure: To be obtained from Blue & Green Drop Reports			1							Г		60	60	у у у у	у у у	60	y n 40
5.3.1.1 Monitoring: % of tests performed as required by general limits /special limits/ license requirements (Average % over previous	10	0	91								0	30	60	y y y y	у у у	60	y n 40
12 months)				-						-							
5.3.1.2 Operational: % of tests performed as required by general limits /special limits/ license requirements (Average % over	0	50	79.2								0	30	60	y y y y	y y y	60	y n 40
previous 12 months)	0	0	90.6							-	0	30	60	V V V V		60	y n 40
5.3.1.3 Chemical (Results of tests performed. Average % sample failure over previous 12 months)	U	2	99.9	_						-	0	30	60	y y y y y v v	y y y v v		
5.3.1.4 Microbiological (Results of tests performed. Average % sample failure over previous 12 months)	+		99.9							-	U	30	00	y y y y	у у у	00	y n 40
5.3.1.5 Physical Compliance (Results of tests performed. Average % sample failure over previous 12 months)			83.7								0	30	60	у у у у	у у у	60	y n 40
			N	1							N	60	60		v v v	60	v n 4∩
* 5.3.2 Autherisation Compliance			N	N	N	_					N	60	60	y y y y	y y y		y n 40 y n 40
* 5.3.2 Autherisation Compliance 5.3.3 Are there any standby pumps available?			N	N	N				0		N	0	0	y y y y	у у у	60	y n 40
* 5.3.2 Autherisation Compliance			N	N	N			2	0	0	N			, , , ,		60	,

MOQHAKA LOCAL MUNICIPALITY																			WSD	P 201	2	
Topic 5: Water Services Infrastructure Profile																						ın
Enabling Factors						Com	plian	се								Ne	eds D	evelo	oment	Plan		
						Stati	us Qu	IO									n (to ad				Stra	tegy
General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must be assessed and the Needs Development Plan section completed	Groundwater (Boreholes)	Surface water (Abstraction Points)	WTW *	Water Pumpstations	Sewer Pumpstations	ine	Sewer Bulk pipeline	Reservoirs	Water Reticulation	Sewer Reticulation	* WWTW	ASSESSMENT	ASSESSMENT	In place?	Tim S Me L	hort (1) dium (iong (5) None	me ;	Higher Level	Growth & Development	ASSESSMENT	In place?	Ę
Quality: Information Accuracy Assessment		<u> </u>					(O)		_	0,					1		N	* *	*			
Quantity: Assessment of Information Completeness					Y/N	I / NA						%	%				/ N / NA			%	Y/N	
5.3.6 % Effluent controled												0	0	у		у у		у у	У	60	y n	
5.3.7 Permitted effluent (MI/day)												0	0	У	У	у у		у у	У		y n	
5.3.8 Solid waste disposal (m³/day)												0	0	У	У	у у		у у	У		y n	
5.3.9 Sludge produced (dry tonnes per day)												0	0	у	у	у у		у у	У	60	y n	
5.3.10 % Of the time that effluent is chlorinated											80	40	60	У	У	уу		уу	У	60	y n	40
Sub Topic 5.3 Compliancy & Needs Development Plans Assessment												28%	40%							56%		37%
5.4 Functionality																						
5.4.1 General physical condition (D : Dysfunctional, O : Operational, P : Prime Condition, V : Vandalised)	0	0	0	0	0	0	0	0	0	0	0	50	60	У	У	у у		у у	У	60	y n	40
5.4.2 Number of breakages / failures per year	8	4	6	15	25	150	5	0	1451	2346		40	60	у	у	уу		у у	У	60	y n	40
5.4.3 Total refurbishment needs %	2	40	25	20	50	10	35	10	5	20	25	40	60	у	У	уу		у у	У	60	y n	40
5.4.4 Total refurbishment needs cost (RM)	0.01	5	8	1.5	2.5	8.5	11	5	5	5	4	40	60	у	У	у у		у у	У	60	y n	40
5.4.5 Total replacement needs %	2	15	25	5	35	77	5	60	70	15	8	30	60	у	у	у		у у	У	60	y n	40
5.4.6 Total replacement needs cost (RM)	0.04	3	15	2.5	3.8	45	3	80	75	10	8	40	60	У	у	у у		у у	У	60	y n	40
Sub Topic 5.4 Compliancy & Needs Development Plans Assessment												40%	60%							60%		40%
5.5 Institutional Status																						
5.5.1 % Whereoff the WSA Self is the Current Owner	100	100	100	100	100	100	100	100	100	100	100	60	60	у	у	у у		у у	У	60	y n	40
5.5.2 % Whereoff the WSA Self is Current Operator	100	100	100	100	100	100	100	100	100	100	100	60	60	у	у	у у		у у	У	60	y n	40
Sub Topic 5.5 Compliancy & Needs Development Plans Assessment		l e e e e e e e e e e e e e e e e e e e										60%	60%			- 1 -				60%		40%
5.6 Asset Assessment Spectrum																						
5.6.1 % Expected total lifespan: Short (1-3 yrs)												0	0	У	У	у у		у у	У	60	y n	
5.6.2 % Expected total lifespan: Medium (3 - 10 yrs)												0	0	у	у	у у		у у	У	60	y n	40
5.6.3 % Expected total lifespan: Long (10 - 20 yrs)												0	0	у	У	у у		уу	у		y n	
* 5.6.4 Estimated replacement value (RM)												0	0	у	У	уу		уу	у	60	y n	40
Sub Topic 5.6 Compliancy & Needs Development Plans Assessment												0%	0%							60%		40%
5.7 Type and Capacity																						

Comments

Detailed investigation needs to be undertaken to determine the feasible options to augment the raw water requirements.

The sources all appears to be licenced. The capacity of the WWTW seems sufficient at this stage. During peak period, however, the water purification works in Viljoenskroon is operated at its capacity. Water shortages are experienced in certain areas.

760 69.4 850 450

79





5.7.1 Capacity (m³) (WTW & WWTW: MI/day and PumpStation: L/s)

25 40 50 y y y y y y y 60 y n 40

MOQHAKA LOCAL MUNICIPALITY																		WSD	P 201	2	
un														Topi		Vater S					rofile
Enabling Factors						Comp	olianc	:e							N	Needs [)evelo	omen	t Plan		
						Statu	ıs Quo)						F	uture pl	lan (to a	ddress i	ssues)		Strat	egy
		s)		SL	JS	Ф	ıe		_	u					Time Fi	rame	Sufficie	nt for			
General Notes: The Enabling Factors below must be completed for the appropriate component compliancy section. All factors must be assessed and the Needs Development Plan section completed	Groundwater (Boreholes)	Surface water (Abstraction Points)	wtw*	Water Pumpstations	Sewer Pumpstations	Water Bulk pipeline	Sewer Bulk pipeline	Reservoirs	Water Reticulation	Sewer Reticulation	* WWTW	ASSESSMENT	ASSESSMENT	In place?	Short Mediun Long Non	n (3) (5)	RDP Higher Level	Growth & Development	ASSESSMENT	In place?	ASSESSMENT
Quality: Information Accuracy Assessment		8		>	Š	>	S		>	(1)				1	3	5 N	* *	*			
Quantity: Assessment of Information Completeness					Y/N	/ NA						%	%			Y/N/NA			%	Y/N	%
5.7.2 Pipe material (Most common) Water Pipeline: AC												20	60								
Sewer Pipeline: AC												20	60								
5.7.3 How much capacity is still available for development? (%)												0	0	у у	У	у	у у	У	60	y n	40
5.7.4 Design Capacity - Hydraulic Load (Ml/day)											25	40	40	уу		у	у у	у	60	y n	40
5.7.5 Design Capacity - Organic Load (COD kg/day)												0	0	у у		у	у у	У	60	y n	40
Sub Topic 5.7 Compliancy & Needs Development Plans Assessment												20%	35%					_	60%		40%
The distribution network consists of asbestos cement and uPVC pipelines, ranging in size from but also to comply with legislation regarding asbestos.	63mm	dia to 6	00mm	dia. The	e condi	tions	of the	asbes	stos pip	elines	are po	oor ar	nd nee	ds to b	e replac	ced, not	only to	curb w	ater lo	sses	
OVERALL TOPIC ASSESSMENT 5.1 General Information 5.2 Operation 5.3 Monitoring & Sample Failure 5.4 Functionality 5.5 Institutional Status 5.6 Asset Assessment Spectrum 5.7 Type and Capacity											2 2 6		60% 40% 60% 60% 0%		NEEDS	S DEVELO	DPMENT Ire plan		ssess 56% Strate		28%
															C	VERALL	QUALITY	ASSES	SSMEN	Г	35%

MOQHAKA LOCAL MUNICIPALITY Topic 6: Operation & Maintenance											WS	DP 20	012			9
Enabling Factors				Cor	mpliance	2				Needs	Dev	elop	ment	Plan		
					atus Quo	<u> </u>				Future plan (to a						ategy
					aluo Quo					Time Frame		ficient				negy
STATUS QUO (S) Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required IMPACT (I) C - Critical M - Mediumal/Hig L - Low No - No Impact	gh	Staff	External resources	Spare Parts	Tools & Equipment	Budget	ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None	RDP	Higher Level	nent	ASSESSMENT	In place?	ASSESSMENT
Quality: Information Accuracy Assessment													Gro			
Quantity: Assessment of Information Completeness		S I	S I	S I	S I	S I				1 3 5 N	*	*	*			
6.1 IS THERE A OPERATION & MAINTENANCE (Y/N):																
.2 WATER SERVICES INFRASTRUCTURE: OPERATIONAL& MAINTE	NANCE ASSESSMENT	_							J	Y / N / NA				%	Y/N	%
2.1 Resources																_
5.2.1.1 Existing Groundwater Infrastructure	: OPERATION	1 M	2 M	2 M	1 M	2 C	30	60	У	ууу	У	У	У	60	y r	40
-	: MAINTENANCE	2 M	2 M	2 M	2 M	2 C	40	60	у	у у у	у	у	,	60	y r	
.2.1.2 Existing Surface water Infrastructure	: OPERATION	2 M	2 M	2 M	1 M	2 C	40	60	у	у у у	у	у	-	60	y r	
	: MAINTENANCE	2 M	2 M	2 M	2 M	2 C	40	60	У	y y y	у	У		60	-	1 40
.2.1.3 Existing Waste Water Treatment Works Infrastructure	: OPERATION	1 M	2 M	1 M	1 M	2 C	30	60	у	у у у	у	у		60	y r	40
	: MAINTENANCE	2 M	3 C	2 M	2 M	2 C	45	60	у	у у у	у	у		60	y r	40
2.1.4 Existing Water Treatment Works Infrastructure	: OPERATION	1 M	2 M	2 M	1 M	2 C	40	60	у	у у у	у	У	у	60	y r	40
	: MAINTENANCE	2 M	3 C	2 M	2 M	2 C	45	60	У	у у у	у	у		60	y r	1 40
5.2.1.5 Existing Pump Station Infrastructure	: OPERATION	1 M	2 M	1 M	1 M	2 C	30	60	у	у у у	у	У	у	60	y r	40
	: MAINTENANCE	2 M	2 M	2 M	2 M	2 C	40	60	у	у у у	у	У	у	60	y r	40
5.2.1.6 Existing Bulk Pipeline Infrastructure	: OPERATION	2 M	2 M	2 M	1 M	2 C	40	60	у	у у у	у	у	у	60	y r	1 40
	: MAINTENANCE	2 M	2 M	2 M	2 M	2 C	45	60	у	у у у	у	У	у	60	y r	40
2.1.7 Existing Tower & Reservoir Infrastructure	: OPERATION	2 M	2 M	1 M	1 M	2 C	40	60	У	у у у	у	у		60	y r	40
	: MAINTENANCE	2 M	2 M	2 M	2 M	2 C	45	60	У	у у у	у	У		60	y r	40
5.2.1.8 Existing Reticulation Infrastructure	: OPERATION	1 M	2 M	1 M	1 M	2 C	35	60	у	у у у	у	У		60	y r	40
	: MAINTENANCE	2 M	2 M	2 M	2 M	2 C	45	60	у		У		у	60	y r	40
ub Topic 6.2.1 Compliancy & Needs Development Plans Assessment							39%	60%						60%		40
COMMENTS																



MOQHAKA LOC	AL MUNICIPALITY																				OP 20			
Φ \																							nten	ance
Enabling Factors							Co	mpli	ianc	:e									_	omen	t Plaı	1		
							St	atus	Quo)					Futu	re plai	า (to a	addres	ss is	sues)		S	Strate	;gy
STATUS QUO (S) Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required IMPACT (I) C - Critical M - Mediumal/High L - Low No - No Impact		S	_ Available	S	Asset Register	S	As-Built Info.	s S	Equipment	S Contingency &	Safety Plan	ASSESSMENT	ASSESSMENT	In place?	S Me L	he Fra hort (1 edium (5 nong (5 None 3 5) (3)	RDP		Growth & Development *	ASSESSMENT	In place?	Sufficient	ASSESSMENT
6.2.2 Information				1																				
6.2.2.1 Existing Groundwater Infrastructure	: OPERATION	1	М				М	1	L	2	М	35	60	У		у у	_	у	У	У	60	У	n	40
	: MAINTENANCE	2	М				М		_		М	40	60	У	•	у у		У	У	У	60	У	n	40
6.2.2.2 Existing Surface water Infrastructure	: OPERATION	1	М				М	1	L		М	40	60	у		у у		У	у	У	60	У	n	40
	: MAINTENANCE	2	М	2			М	1	М		М	40	60	у	У	у у		у	У	У	60	У	n	40
6.2.2.3 Existing Water Treatment Works Infrastructure	: OPERATION	1	М	2			М		L		М	40	60	у	у	у у		у	У	У	60	У	n	40
	: MAINTENANCE	2	М				М		М		М	40	60	у	У	у у		у	У	У	60	У	n	40
6.2.2.4 Existing Waste Water Treatment Works Infrastructure	: OPERATION	1	М				М		L		М	35	60	у	У	у у		у	У	У	60	у	n	40
	: MAINTENANCE	2	М				М	1	М		М	40	60	у	у	у у		у	У	У	60	У	n	40
6.2.2.5 Existing Pump Station Infrastructure	: OPERATION	1	М	2			М	1	L	2	М	35	60	у	у	у у		у	У	У	60	У	n	40
	: MAINTENANCE	2	М	2	М	2	М	1	М	2	М	40	60	у	У	у у		у	У	У	60	У	n	40
6.2.2.6 Existing Bulk Pipeline Infrastructure	: OPERATION	1	М				М	1	L	2	М	35	60	у	у	у у		у	У	У	60	У	n	40
	: MAINTENANCE	2		2			М		М	2	М	40	60	у	У	у у		у	У	У	60	У	n	40
6.2.2.7 Existing Tower & Reservoir Infrastructure	: OPERATION	1	М	2	М	2	М	1	L	2	М	35	60	у	у	у у		у	У	у	60	у	n	40
	: MAINTENANCE	2	М	2	М	2	М	1	М	2	М	40	60	у	У	у у		у	У	У	60	У	n	40
6.2.2.8 Existing Reticulation Infrastructure	: OPERATION	1	М	2	М	2	М	1	L	2	М	35	60	у	у	у у		у	У	У	60	у	n	40
	: MAINTENANCE	2	М	2	М	2	М	1	М	2	М	40	60	у		у у		у		у	60	у	n	40
Sub Topic 6.2.2 Compliancy & Needs Development Plans Assessment												38%	60%								60%	-		40%
COMMENTS																								



MOQHAKA LOCAL MUNICIPALITY																			1	WSD	P 20	12		
Topic 6: Operation & Maintenance																							Δ	9
Enabling Factors							Coi	mpli	ance	•						N	leeds	Deve	elopi	men	t Plar			
							Sta	atus	Quo						Futu	re plai	n (to a	ddres	s iss	ues)		St	trate	ју
				Φ	,	S S				∞	-				Tim	e Fra	me	Suffi	icient	for				
STATUS QUO (S) Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required IMPACT (I) C - Critical M - Mediumal/High L - Low No - No Impact		Procedures		Record keeping in place	6	Quality control procedure	establ.		Risk Management	Reporting (data analysis &	erati	ASSESSMENT	ASSESSMENT	In place?	Me L	hort (1 edium (ong (5 None	(3))	RDP	* Higher Level	* Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Overally Assessment of left-months of the contraction of the contracti									1 .		_				1	3 5	N	*	*	*				
Quantity: Assessment of Information Completeness		S	1	S	-	S	I	S	1	S	1	0/	0/			V /	N/NA				0/	1/Y	NI.	0/
Quality: Information Accuracy Assessment 6.2.3 Activity Control & Management												%	%			Υ /	N / NA				%	Y / I	N	%
	DEDATION	4	N 4	4	N 4	4	N 4	4	D.4	4	N 4	00	00								00			10
	PERATION	1	M	1	M	1	M	1	M	1	M	20	60	У	,	у у	_	У	У	У	60	,	n	40
	AINTENANCE	2	M	2	M	2	M	2	M	2	С	40	60	У	,	у у	-	У	У	У	60	,	n	40
Š	PERATION	2	M	1		2	M	1	M	2	M	35	60	У	,	у у	_	У	У	У	60	,	n	40
	AINTENANCE	2	M	3	С	2	M	2	M	2	С	45	60	У	,	у у		У	У	У	60	,	n	40
Š	PERATION	1		1	M	2	M	1	M	2	M	30	60	У	-	у у	_	У	У	У	60	,	n	40
	AINTENANCE	2	М	3	0	2	M	2	M	2	С	40	60	У	,	у у		У	у	У	60	,	n	40
<u> </u>	PERATION	1	М	1	M	1	M	1	M	2	M	25	60	У	-	у у		У	у	У	60	,	n	40
	AINTENANCE	2	М	3	С	2	М	2	M	2	С	45	60	У	,	у у		У	У	У	60	,	n	40
Ů 1	PERATION	2	М	1	М	2	М	1	М	2	M	35	60	У	,	у у	_	У	У	У	60	,	n	40
	AINTENANCE	2	М	2	М	2	М	2	M	2	С	40	60	У	,	у у		У	У	У	60	,	n	40
<u> </u>	PERATION	2		1	М	2	М	1	M	2	M	35	60	У	,	у у		У	У	У	60	,	n	40
	AINTENANCE	2	М	2	М	2	М	2	М	2	С	40	60	У	У	у у		У	У	У	60	,	n	40
ů – – – – – – – – – – – – – – – – – – –	PERATION	2	М	1	М	2	М	1	M	2	M	35	60	у	,	у у		У	У	У	60	,	n	40
	AINTENANCE	2	М	2	М	2	М	2	М	2	С	40	60	у	У	у у		У	У	У	60	у	n	40
	PERATION	2	M	1	M	2	М	1	M	2	М	35	60	у	У	у у		У	у	У	60	у	n	40
: MA	AINTENANCE	2	M	2	М	2	М	2	M	2	С	40	60	У	У	у у		У	у	У	60	у	n	40

36%

COMMENTS

Most of the pumpstation problems pertain to the sewer pump stations due to the fact that the equipment is outdated. Spare parts are available but the tools and equipment is not enough. Manuals are not available and there are no information on the tools and equipment. Record keeping and risk management is not in place yet.

Spare parts on the water treatment works is a problem due to the age of the infrastructure.

There is a serious staff shortage as well as skills amongs existing staff.

Sub Topic 6.2.3 Compliancy & Needs Development Plans Assessment

Specilised equipment and vehicles is a big factor hampering the water services section.





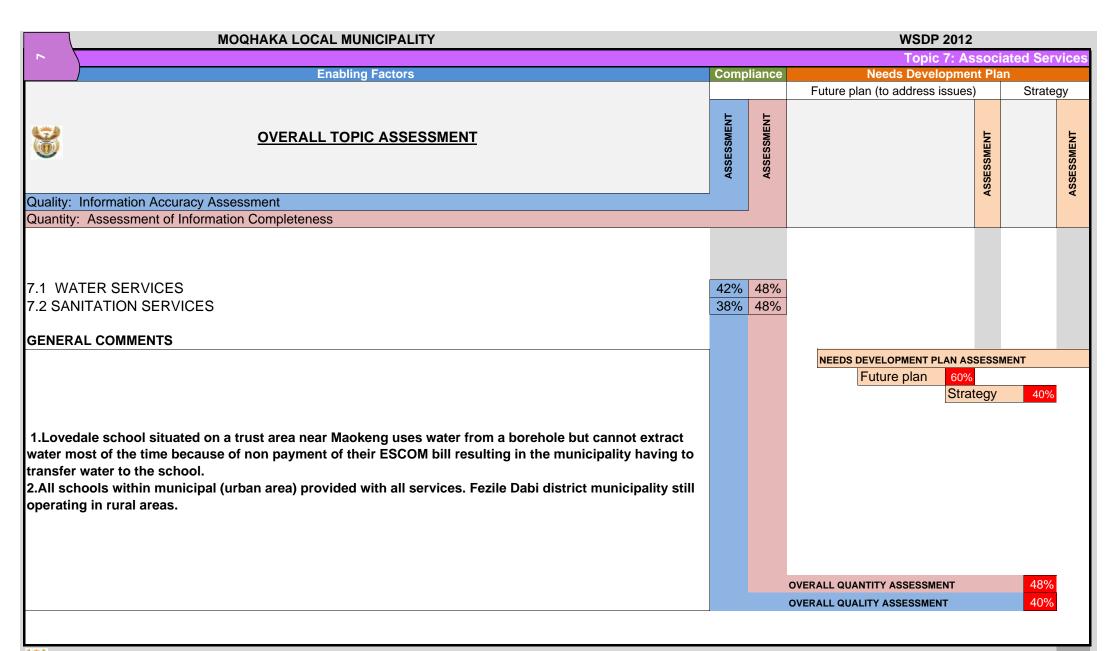
60%

Enabling Factors	HAKA LOCAL MUNICIPALITY																DP 20		
STATUS QUO S S S S S S S S S																			enance
## ACT (1) 2 - 2 - 2 - 2 - 2 - Control price Market (1) C - Critical Market (1) M	Enabling Factors																		
3 - Above infirement requirement No - No impact No im								atus Qu	0									Str	ategy
3 - Above infirement requirement No - No impact No im	STATUS QUO (S)		ý.	3	ace		bec							Time Frame	Sufficie	ent for			
Caulity: Information Accuracy Assessment In Place Y/N 6.3. Water Supply and Quality In Place Y/N 6.3.1 Water: Incident Management Protocol Y 6.3.2 Water: Process Control Y 6.3.4 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop Y Y 6.3.4 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop Y Y 6.3.5 Biue Drop Status N ADD SCORE FROM BLUE DROP STATUS 22% 60% 6.4 Waste Water Supply and Quality In Place Y/N 6.4.1 Waste Water: Supply and Quality Y Y 6.4.3 Waste Water: Monitoring Programme N 6.4.4 Waste Water: Monitoring Programme N 6.4.5 Waste Water: Monitoring Programme N 6.4.5 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop Politius Y ADD SCORE FROM BLUE DROP STATUS 40% 6.4.5 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop Politius Y ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.4.5 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop Politius Y ADD SCORE FROM GREEN DROP STATUS 6.4.6 Green Drop Status Y ADD SCORE FROM GREEN DROP STATUS 6.5.2 A CITYLTY CONTROL & MAINTENANCE PLAN 6.6.2 IRESOURCES 6.2.2 INFORMATION 6.3 WATER SUPPLY AND QUALITY (GREEN DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% 60% 60% 60% 60% 60% 60% 60% 60% 60%	Z - Zero Compliance 1 - Below minimum requirement 2 - Minimum basic requirement 3 - Above minimum requirement N/R Not Required C - Critical M - Mediumal/High L - Low No - No Impact		Policies & Procedur	5	Record keeping in PI	Quality Control	Procedures Establish	. Risk Managemen		Reporting	ASSESSMENT	ASSESSMENT	In place?	None			ASSESSMENT	In place?	ASSESSMENT
**5.3 Water: Incident Management Protocol	· ·		S	1	SI	S	1	SI	S	-1				1 3 5 N	* *	*			
6.3.1 Water: Incident Management Protocol Y 6.3.2 Water: Monitoring Programme Y 6.3.3 Water: Monitoring Programme Y 6.3.4 Water Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop requirements) 6.3.5 Water: Failure Response Management N 6.3.6 Blue Drop Status N 6.3.6 Blue Drop Status N 6.4.1 Waste Water Supply and Quality In Place Y / N 6.4.1 Waste Water: Incident Management Protocol Y 6.4.2 Waste Water: Process Control Y 6.4.3 Waste Water: Process Control Y 6.4.4 Waste Water: Process Control Y 6.4.4 Waste Water: Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.4.5 Waste Water: Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.4.6 Green Drop Status Y 6.6.6 Green Drop Status Y 6.6.6 Green Drop Status Y 6.6.6 Green Drop Status S 6.7 Waste Water: Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.8 Green Drop Status S 6.9 Waste Water: Analysis (Credible: Scale 1 – 5 as per Green Drop Status S 6.1 OPERATION & MAINTENANCE PLAN S 6.2 INFORMATION S 6.2.1 ACTIVITY CONTROL & MANAGEMENT S 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS OVERALL QUALITY (SREEN DROP) COMMENTS OVERALL QUALITY ASSESSMENT Future plan 60% Futur	Quality: Information Accuracy Assessment										%	%		Y / N / NA	· ·		%	Y/N	%
6.3.2 Water: Process Control 6.3.3 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop requirements) 6.3.6 Blue Drop Status N 6.3.6 Blue Drop Status N ADD SCORE FROM BLUE DROP STATUS 22% 60% 60% 40% 6.4 Waste Water: Supply and Quality Y/N 6.4.1 Waste Water: Incident Management Protocol Y 6.4.2 Waste Water: Process Control 6.4.3 Waste Water: Process Control 6.4.4 Waste Water: Failure Response Management N 6.4.6 Green Drop Status Y ADD SCORE FROM BLUE DROP STATUS 42% 60% 60% 60% 60% 40% 61. OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.1 RESOURCES 6.2.2 INFORMATION 6.3 WATER SUPPLY AND QUALITY (BRUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (BRUE DROP) 6.5 WATER SUPPLY AND QUALITY (BLUE DROP) 6.5 WATER SUPPLY AND QUALITY (BRUE DROP) COMMENTS N ADD SCORE FROM GREEN DROP STATUS 42% 60% 60% 60% 60% 60% 60% 60% 60% 60% 60%	* 6.3 Water Supply and Quality																		
6.3.3 Water: Monitoring Programme	6.3.1 Water: Incident Management Protocol	Υ																	
6.3.4 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop requirements) 6.3.5 Water: Failure Response Management N 6.3.6 Blue Drop Status N ADD SCORE FROM BLUE DROP STATUS 22% 60% 6.4 Waste Water Supply and Quality N 6.4.1 Waste Water: Incident Management Protocol Y 6.4.2 Waste Water: Process Control N 6.4.3 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop Frequirements) Careen Drop Frequirements N 6.4.6 Green Drop Status Y ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS N ADD SCORE FROM BLUE DROP STATUS 40% 60% 40% 60% 40% 60% 60% 60% 60% 60% 60% 60% 60% 60% 6		Υ																	
requirements) 6.3.5 Water: Failure Response Management 8.3.6 Blue Drop Status 9.4 Waste Water Supply and Quality 10.4 Waste Water: Incident Management Protocol 9.4 Waste Water: Process Control 9.4.3 Waste Water: Process Control 9.4.3 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 9.4 ADD SCORE FROM BLUE DROP STATUS 9.4 Waste Water: Process Control 9.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 9.4 ADD SCORE FROM GREEN DROP STATUS 9.5 ADD SCORE FROM GREEN DROP STATUS 9.6 Gov. 9.6 Gov. 9.6 Gov. 9.6 Gov. 9.7 ADD SCORE FROM GREEN DROP STATUS 9.7 ADD SCORE FROM GREEN DROP STATUS 9.8 Gov. 9.8 Gov. 9.9 Gov. 9.9 Gov. 9.9 Gov. 9.9 Gov. 9.0 Gov. 9	6.3.3 Water: Monitoring Programme	Υ																	
Fequirements Sa.5 Water: Fallure Response Management N	6.3.4 Water: Sample Analysis (Credible: Scale 1 – 5 as per Blue Drop	V																	
6.3.6 Blue Drop Status N 6.4 Waste Water Supply and Quality 10 Place Y/N 6.4.1 Waste Water: Incident Management Protocol Y 6.4.2 Waste Water: Process Control N 6.4.4 Waste Water: Process Control N 6.4.5 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per 4 Green Drop requirements) 6.4.6 Green Drop Status Y ADD SCORE FROM BLUE DROP STATUS 22% 60% 6.0% 6.0% 6.0% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 MATER SUPPLY AND QUALITY (BLUE DROP) 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS ADD SCORE FROM BLUE DROP STATUS 22% 60% 6.	1 /	ı																	
*6.4 Waste Water: Incident Management Protocol Y/N 6.4.1 Waste Water: Incident Management Protocol Y/ 6.4.2 Waste Water: Process Control Y/ 6.4.3 Waste Water: Process Control Y/ 6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.4.5 Waste Water: Failure Response Management N/ 6.4.6 Green Drop Status Y/ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT STATEGY OVERALL QUALITY ASSESSMENT 30%		N																_	
6.4.1 Waste Water: Incident Management Protocol Y 6.4.2 Waste Water: Process Control Y 6.4.3 Waste Water: Process Control N 6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per A Green Drop requirements) 6.4.5 Waste Water: Failure Response Management N 6.4.6 Green Drop Status Y 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT 30% OVERALL QUALITY ASSESSMENT 30%	6.3.6 Blue Drop Status	N	AD	DD S	CORE F	ROM	1 BLU	JE DRO	P STA	ATUS	S 22%	60	%				60%		40%
6.4.1 Waste Water: Incident Management Protocol 6.4.2 Waste Water: Process Control 6.4.3 Waste Water: Monitoring Programme 6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per deren Drop requirements) 6.4.5 Waste Water: Failure Response Management 6.4.6 Green Drop Status 7 ADD SCORE FROM GREEN DROP STATUS 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) 6.5 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) 6.5 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) 6.6 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) 6.7 OWMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT OVERALL QUALITY ASSESSMENT STATEGY OVERALL QUALITY ASSESSMENT	* 6.4 Waste Water Supply and Quality																		
6.4.2 Waste Water: Process Control 6.4.3 Waste Water: Process Control 6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.4.5 Waste Water: Failure Response Management 6.4.6 Green Drop Status 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.2 INFORMATION 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% OVERALL QUALITY ASSESSMENT Future plan 60% OVERALL QUALITY ASSESSMENT 30% OVERALL QUALITY ASSESSMENT 30%																			
6.4.3 Waste Water: Monitoring Programme 6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.4.5 Waste Water: Failure Response Management 6.4.6 Green Drop Status N 6.4.6 Green Drop Status ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT 30%			_																
6.4.4 Waste Water: Sample Analysis (Credible: Scale 1 – 5 as per Green Drop requirements) 6.4.5 Waste Water: Failure Response Management N 6.4.6 Green Drop Status Y ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT 30%		•	_																
Green Drop requirements) 6.4.5 Waste Water: Failure Response Management 6.4.6 Green Drop Status 7 ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT 30%		N	_																
6.4.6 Green Drop Status Y ADD SCORE FROM GREEN DROP STATUS 42% 60% 6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT Future plan 60% Strategy 40% OVERALL QUALITY ASSESSMENT 30%	Green Drop requirements)	4																	
6.1 OPERATION & MAINTENANCE PLAN 6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS Needs development plan assessment																		_	
6.2.1 RESOURCES 6.2.2 INFORMATION 6.2.3 ACTIVITY CONTROL & MANAGEMENT 6.3 WATER SUPPLY AND QUALITY (BLUE DROP) 6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP) COMMENTS NEEDS DEVELOPMENT PLAN ASSESSMENT	6.4.6 Green Drop Status	Υ	ADD	SCC	ORE FR	OM G	REE	N DRO	P STA	ATU:	S 42%	60	%				60%		40%
	6.2.1 RESOURCES6.2.2 INFORMATION6.2.3 ACTIVITY CONTROL & MANAGEMENT6.3 WATER SUPPLY AND QUALITY (BLUE DROP)6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DRO	PP)									39% 38% 36% 22%	60% 60% 60%	% % %)	60%		40%
														OVERALL QUA	LITY ASSE	ESSMFI	NT		30%



MOQHAKA LOCAL	MUNICIPALITY										W	SDP	2012				
Topic 7: Associated Services																_	^
		Enabling Factors	;			Comp	liance			No	eeds D	evelo	pmer	it Pla	ın		
									Future	plan (to add	ress is	ssues)	1	S	trate	ду
									Tim	e Fran	ne Si	ufficie	nt for				
	esources available to per	form function? (Yes: Y,	No: N, Not Applicable:	: NA):		ASSESSMENT	ASSESSMENT	In place?	Me L	hort (1) dium (3 ong (5) None	3)	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy A											*	*	*	,			
Quantity: Assessment of Inform	nation Completene	ess							1	3 5	N						
7.1 Water Services					I	%	%			Y / Y	N/NA			%	Υ/	N	%
Associated Services Facility	Number of facilities	Facilities with adequate services	Facilities with no services	Facilities with inadequate services	Total Potential cost (basic level) (RM)												
7.1.1 Education Plan																	
* Schools	37	36	0	1		50	60	у	у	уу	у	у	у	60	у	n	40
Tertiary education facility	0	0	0	0		0	0	у		у у	у	у	у	60	у	n	40
Total	37	36	0	1	0					<u> </u>		•			,	,	
* 7.1.2 Health Plan																	
* Hospitals	3	3	0	0		60	60	у	у	уу	у	у	у	60	у	n	40
* Health centres	0	0	0	0		60	60	у	у	у у	у	у	у	60	у	n	40
* Clinics	6	2	0	4		40	60	у	у	у у	у	у	у	60	у	n	40
Total	9	5	0	4	0					<u> </u>		•			,	,	
Sub Topic 7.1 Compliancy & Needs Develop	oment Plans Assessmen	t				42%	48%							60%			40%
7.2 Sanitation Services 7.2.1 Education Plan																	
* Schools	20	2	17	0		30	60	у	у	у у	у	у	у	60	у	n	40
Tertiary education facility	0	0	0	0		0	0	у		у у	у		у	60	у	n	40
Total	20	2	17	0	0												
* 7.2.2 Health Plan																	
* Hospitals	3	3	0	0		60	60	у	у	уу	у	у	у	60	у	n	40
* Health centres	0	0	0	0		60	60	у	у	у у	у	у	у	60	у	n	40
* Clinics	6	3	0	3		40	60	у		у у	у		у	60	у	n	40
Total	9	6	0	3	0												
Sub Topic 7.2 Compliancy & Needs Develop	oment Plans Assessmen	t				38%	48%							60%			40%





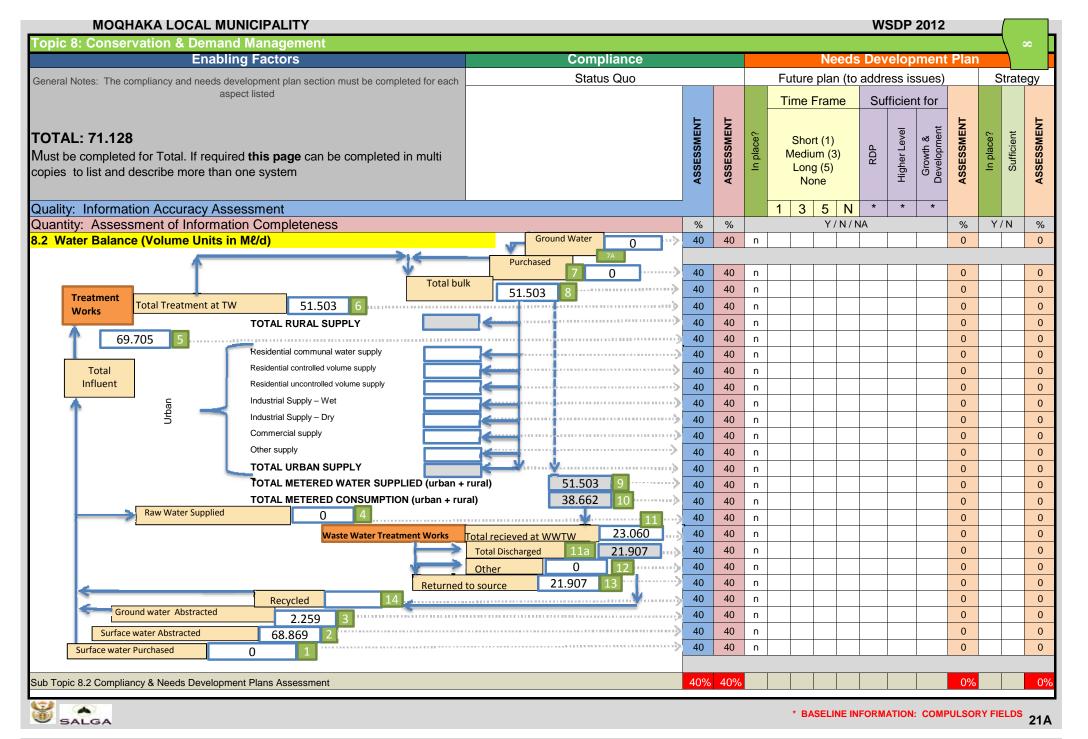


MOQHAKA LOCAL MUNICIPALITY										WSD	P 20	12			
Topic 8: Conservation & Demand Management														\neg	∞
Enabling Factors			liance					Ne	eds D)evel	opme	ent l	Plan		
		Statu	s Quo					ure plar						Strate	∍gy
	<u>σ</u> .							ime Fra	me	Suffic	cient f	for			
	Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: NA):	Urban Settlements	Rural	Settlements	ASSESSMENT	ASSESSMENT	l gac	Short (1 Medium (Long (5 None	(3) (5)	RDP	Higher Level	Development	ASSESSMENT	In place? Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment	Re. F.	Number Of % of T	otal Number	Of % of Total				0 5	· NI	*	*	*			
Quantity: Assessment of Information Completeness	٤						1	3 5	N	^	^	^			
8.1 Water Resource Management Interventions					%	%		Υ,	/ N / NA				%	Y/N	%
* 8.1.1 Reducing unaccounted water and water inefficiencies															
8.1.1.1 Night flow metering	n				0	0							0		0
8.1.1.2 Day flow metering	n				0	0							0		0
8.1.1.3 Reticulation leaks	n				0	0							0		0
8.1.1.4 Illegal connections	n				0	0							0		0
8.1.1.5 Un-metered connections	n				0	0							0		0
8.1.1.6 Internal plumbing leaks	n				0	0							0		0
* 8.1.2 Reducing high pressures for residential consumers Number of consumer units with water supply pressure of:				TOTAL	0%	0%							0%		0%
8.1.2.1 <300kPa	n				0	0									
8.1.2.2 300 –600kPa	n				0	0									
8.1.2.3 600 –900kPa	n				0	0							0		0
8.1.2.4 >900kPa (>9Bar)	n				0	0							0		0
* 8.1.3 Leak and meter repair programmes Consumer units targeted by:				TOTAL	0%	0%							0%		0%
8.1.3.1 Leak repair assistance programme	n				0	0							0		0
8.1.3.2 Retro-fitting of water efficient toilets	n				0	0							0		0
8.1.3.3 Meter repair programme Y/N: n	n				0	0							0		0
8.1.4 Consumer/end-use demand management: Public Information & Education Programmes				TOTAL		0%							0%		0%
8.1.4.1 Schools targeted by education programmes	n				0	0							0		0
8.1.4.2 Consumers targeted by public information programmes	n				0	0							0		0
* 8.1.4.3 IS THERE A OPERATION & MAINTENANCE PLAN?		(Y/N): n			0%	0%							0%		0%
Sub Topic 8.1 Compliancy & Needs Development Plans Assessment					0%	0%							0%		0%



MOQHAKA LOCAL MUNICIPALIT	Y									WSDF					
· ·								Top	oic 8: C	conser	vation	& Den	nand N	lanage	ement
Enabling Factors	Cor	nplian	ce					Need	s Deve	lopme	nt Plar	1			
	Sta	atus Qu	0			Futu	re plan	(to ad	dress is	sues)				Strategy	/
						Time I				ufficient	for				
	Number of Settlements	ASSESSMENT	ASSESSMENT	In place?		Shoi Mediu Long No	ım (3) g (5)		RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
	qu.	¥	Ϋ́								owtł	¥ 8			AS
Quality: Information Accuracy Assessment	ž				1	3	5	N			p				
Quantity: Assessment of Information Completeness									*	*	*				
additity. Account of information completeness	Number of	%	%				Y / N	N/NA		<u> </u>		%	Υ/	' N	%
8.1.5 Conjunctive use of surface – and groundwater	14dilliber of											,,,			, , ,
Ground Water	2														
Surface Water	4	-													
Conjuctive Use															
Artificial Recharge	0														
Rain Water Harvesting	0														
8.1.6 Working for Water	Is the	ere a Wor	king for \	Nater Pro	ogramme	in Place:		(Y/N)	: n						
Provide List of Projects:															
1)															
2)															
3)															
4)															
5)															
6)															
7)															
Comments															
Moqhaka does not have a formal Water Conservation and Development Plan in place but a study was done 5 yea though. There are also no bulk meters in place in the system for accurate figures and demand management.	rs ago which i	s being u	used for t	he impler	mentation	of water	demand	and dev	elopment	. This doc	ument is	becomin	g outdate	d	





WSDP 2012

Enabling Factors			Compliance			Needs	Devel	opmen	t Plar		
General Notes: The compliancy and needs development plan section must be	completed for each		Status Quo			Future plan (to	addres	s issues))	Stra	ategy
aspect listed						Time Frame	Suffic	cient for			
TOTAL: 71.128 Must be completed for Total. If required this page can be completed to list and describe more than one system	leted in multi			ASSESSMENT	ASSESSMENT In place?	Short (1) Medium (3) Long (5) None	Basic	Higher Level Growth & Development	ASSESSMENT	In place?	ASSESSMENT
Quality: Information Accuracy Assessment						1 3 5 N	*	* *			
Quantity: Assessment of Information Completeness				%	%	Y/N/N	JA		%	Y/N	%
,											
8.3 Water Losses											
8.3.1 •- Raw Water Bulk Loss											
Raw Water at - Water Bulk Treatment Received	Raw Water Supplied		% LOSS								
5 - (1+2+3+14)	- 4										
69.705 - 71.128	- 0.000	= -1.4225573	-2%	40	10 n				0		0
8.3.2 ●- Treated Water Loss :Bulk											
Total Metered Supplied - (Total Treated	at Treated Water + Pu	urchased Treated Water	r)								
9 - 8	.										
51.503 51.503		= 0	0%	40	10 n				0		0
8.3.3 ● - Treated Water Loss :Internal											
Metered Consumption - Metered Supp	lied										
10 - 9											
38.662 - 51.503		= -12.841415	-18%	40	10 n				0		0
8.3.4 • - Water Balance Bulk Usage Input (1+2+3+7+7a)-4 - 9	+ Discharged + 13	Value									
71.128 51.503	21.907	41.532076	58%	40	10 n				0		0
Sub Topic 8.3 Compliancy & Needs Development Plans Assessment				40% 4	0%				0%		0%

MOQHAKA LOCAL MUNICIPALITY WSDP 2012													
Topic 8: Conservation & Demand Management												<u>~</u>	0
Enabling Factors	Compliance				Ne	eds	Deve	elopn	nent l	Plan		<u> </u>	
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plan (to address issues)						Strategy		
aspect listed					Time Fran	ne	Suf	ficien	t for				
TOTAL: Must be completed for Total. If required this page can be completed in multi copies to list and describe more than one system Quality: Information Accuracy Assessment Quantity: Assessment of Information Completeness		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quantity: Assessment of Information Completeness			%		1 3 5	N	*	*	*				
Quantity: Assessment of Information Completeness 8.2 Water Balance (Volume Units in Mℓ/d) Ground Water Image: Ground Water					Y	/ N / N	NA T			%	Υ/	N	%
8.2 Water Balance (Volume Units in Me/d)	Ground water												
	Purchased					T					I		
Total bul	k												
Treatment Table Treatment at TM	8												
Works Total Treatment at TW 6													
TOTAL RURAL SUPPLY													
Residential communal water supply													
Total Residential controlled volume supply													
Influent Residential uncontrolled volume supply	=												
Industrial Supply – Wet	=												
Commercial supply													
Other supply													
TOTAL URBAN SUPPLY													
TOTAL METERED WATER SUPPLIED (urban +	rural)												
TOTAL METERED CONSUMPTION (urban + rur													
Raw Water Supplied 4	11	<u> </u>											
	Total recieved at WWTW												
	Total Discharged 11a												
↓	Other 12												
Returned													
Recycled 14													
Ground water Abstracted													
Surface water Abstracted 2	······>												
Surface water Purchased 1													
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment 0%			0%							0%			0%



	MOQHAKA LOCAL MUNICIPALITY WSDP 2012													
∞ ′			Topic 8: Conservation & Demand Management									nent		
	Enabling Factors	Compliance	Needs Development Plan											
General	neral Notes: The compliancy and needs development plan section must be completed for each Status Quo			Future plan (to address issues) Strategy										
	aspect listed		Time Frame			Sufficient for								
copies	e completed for Total. If required this page can be completed in multi to list and describe more than one system		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None	Basic	Higher Level	Growth & Development	ASSESSMENT	Sufficient	ASSESSMENT		
	: Information Accuracy Assessment		%			1 3 5 N	*	*	*					
Quantity: Assessment of Information Completeness				%		Y/N/N	IA			%	Y/N	%		
g g Wa	ater Losses													
	3.3.1 ●- Raw Water Bulk Loss													
	Raw Water at Treatment Treatment Total Raw Water Bulk Received 5 - (1+2+3+14) - 4	% LOSS												
		=												
8	3.3.2 •- Treated Water Loss: Bulk Total Metered Supplied - (Total Treated at Treated Water + Programme 1) - 8	urchased Treated Water)												
8	3.3.3 ● - Treated Water Loss :Interna													
_	Metered Consumption - Metered Supplied 10 - 9	-												
8	3.3.4 • - Water Balance Bulk Usage + Discharged													
	Bulk Usage + Discharged Input (1+2+3+7+7a)-4 - 9 + 13	Value												
Cub Tania	a 0.2 Compliance 9 Needs Development Plans Assessment		00/	00/						00/		00/		

MOQHAKA LOCAL MUNICIPALITY							VVS	שני איני	2012				
Topic 8: Conservation & Demand Management												×	
Enabling Factors	Compliance				Ne	eds	Deve	lopn	nent F	Plan			
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plar	n (to a	addre	ss iss	ues)		Str	ateg	јУ
aspect listed					Time Fran	ne	Suf	ficien	t for				
TOTAL: Must be completed for Total. If required this page can be completed in multi copies to list and describe more than one system		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level		ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment					1 3 5	N	*	*	*				
Quantity: Assessment of Information Completeness	To two	%	%		Y	/ N / N	IA			%	Υ/	N	%
8.2 Water Balance (Volume Units in Mℓ/d)	Ground Water												
	Purchased					1 1		1					
Total bul	k												
Treatment	8												
Works Total Treatment at TW 6													
TOTAL RURAL SUPPLY													
Residential communal water supply	7.												
Total Residential controlled volume supply Influent Residential uncontrolled volume supply													
Industrial Supply – Wet Industrial Supply – Dry													
Commercial supply													
Other supply													
TOTAL URBAN SUPPLY													
TOTAL ORBAN SOFFET	rural)												
TOTAL METERED CONSUMPTION (urban + rur													
Paw Water Supplied													
Waste Water Treatment Works	Total recieved at WWTW												
	Total Discharged 11a												
	Other 12												
Returned	to source 13												
Recycled 14	·····												
	<u> </u>												
Surface water Abstracted 2	>												
Surface water Purchased 1													
		004	oor							004			000
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%							0%			0%



	MOQHAKA LOCAL MUNICIPALITY						P 2012			
∞ ′				To	opic 8: Conserv	ation &	Demar	nd Ma	ınage	ment
	Enabling Factors	Compliance			Needs	Develo	pment	Plan		
General	Notes: The compliancy and needs development plan section must be completed for each	Status Quo			Future plan (to	address	issues)		Stra	tegy
	aspect listed				Time Frame	Suffici	ent for			
ТОТА			ASSESSMENT	ASSESSMENT In place?	Short (1)	Basic	Growth & Development	ASSESSMENT	ce?	ASSESSMENT
	e completed for Total. If required this page can be completed in multi		ESS	ESS	Medium (3)	Basic	Z De	ESS	In place?	ESS
	to list and describe more than one system		ASS	ASSE	None			ASS	<i>⊆</i> <i>σ</i>	ASS
	r: Information Accuracy Assessment				1 3 5 N		*			
Quanti	ty: Assessment of Information Completeness		%	%	Y/N/	NA		%	Y/N	%
2 2 14/										
	ater Losses 3.3.1 ● - Raw Water Bulk Loss									
O	Total Raw									
	Raw Water at - Water Bulk - Supplied Received	% LOSS								
	5 - (1+2+3+14) - 4									
	· ·	=								
8	3.3.2 ● - Treated Water Loss :Bulk									
	Total Metered Supplied - (Total Treated at Treated Water + P	rurchased Treated Water)								
	9 - 8									
		=								
8	3.3.3 ● - Treated Water Loss :Interna									
	Metered Consumption - Metered Supplied									
	10 - 9									
	-	=								
8	3.3.4 ● - Water Balance									
	Bulk Usage + Discharged									
	Input (1+2+3+7+7a)-4 - 9 + 13	Value								
		·								
Nuls Tami	a 0.2 Compliance 9 Nooda Davidanment Dlana Assessment		00/	00/				00/		00/

MOQHAKA LOCAL MUNICIPALITY							VVS	א אענ	2012				
Topic 8: Conservation & Demand Management												×	
Enabling Factors	Compliance				Ne	eds	Deve	lopn	nent F	Plan			
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo				Future plar	n (to a	addre	ss iss	ues)		Str	ateg	јУ
aspect listed					Time Fran	ne	Suf	ficien	t for				
TOTAL: Must be completed for Total. If required this page can be completed in multi copies to list and describe more than one system		ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3 Long (5) None	3)	RDP	Higher Level		ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment					1 3 5	N	*	*	*				
Quantity: Assessment of Information Completeness	To two	%	%		Y	/ N / N	IA			%	Υ/	N	%
8.2 Water Balance (Volume Units in Mℓ/d)	Ground Water												
	Purchased					1 1		1					
Total bul	k												
Treatment	8												
Works Total Treatment at TW 6													
TOTAL RURAL SUPPLY													
Residential communal water supply	7												
Total Residential controlled volume supply Influent Residential uncontrolled volume supply													
Industrial Supply – Wet Industrial Supply – Dry													
Commercial supply													
Other supply													
TOTAL URBAN SUPPLY													
TOTAL ORBAN SOFFET	rural)												
TOTAL METERED CONSUMPTION (urban + rur													
Paw Water Supplied													
Waste Water Treatment Works	Total recieved at WWTW												
	Total Discharged 11a												
	Other 12												
Returned	to source 13												
Recycled 14	·····												
	<u> </u>												
Surface water Abstracted 2	>												
Surface water Purchased 1													
		004	oor							004			000
Sub Topic 8.2 Compliancy & Needs Development Plans Assessment		0%	0%							0%			0%



L		Тор	ic 8: Conserva Needs Future plan (to	Deve	elopn			nage	ment
L						nent	Plan		
L L			Future plan (to	مططعه					
F				addie	ess iss	ues)		Stra	tegy
Ę			Time Frame	Suf	fficient				
ASSESSMENT	ASSESSMENT	In place?	Short (1) Medium (3) Long (5) None	* Basic	* Higher Level	* Growth & Development	ASSESSMENT	In place?	ASSESSMENT
%	%		Y/N/1	۱A			%	Y/N	%

							W5	ב אטפ	2012				
												9	0
Compliance					Veed	ds D	eve	lopn	ient l	Plan			
Status Quo				Future p	lan (to ac	ddres	ss iss	ues)		St	rateç	ј у
				Time F	rame	د ا	Suff	icient	t for				
	_	_	-	111101				10.0.1	10.				
			56	01	(4)			_e	ent	E	25	Ħ	ASSESSMENT
	SSIM	SSIM	lace		` '		유	r Le	opm	SSIM	lace	ficie	SSIM
	SE	SE	ln p				₹	ghe	Grov	SE	드	Suf	SE
	AS	AS						王	۵	AS			AS
			-	4 2	<i>E</i>	N.I	*	*	*				
	0/2	0/2		1 3						0/2	Y /	N	%
Ground Water	76	70			171	171470				70		-	/0
7A													
Purchased													
8													
<u> </u>													
·····>													
─ ───													
——————————————————————————————————————													
— ———)													
													
												_	
											_	_	
											_	_	
											-	\rightarrow	
Oure:													
······>													
·····>													
	•				•		•	,					
	0%	0%								0%			0%
	Ground Water Purchased 7 (8 10 11 Total recieved at WWTW Total Discharged 11a Other 12 os source 13	Status Quo Ground Water Purchased 7 8 10 11 Total recieved at WWTW Total Discharged Other 12 13 Other 13	Status Quo Ground Water Purchased 7 8 10 11 Total recieved at WWTW Total Discharged Other 12 50 source 13	Status Quo IN IN IN IN IN IN IN I	Status Quo Future p Time F Short Mediur Long Nor 1 3 % % 8 90 10 11 10 10 10 10 10 10 10	Status Quo Future plan Time Frame Short (1) Medium (3) Long (5) None 1 3 5 Purchased 7 8 96 % Future plan Time Frame 1 3 5 None 1 1 3 5 None 1 4 7 None 1 5 7 None 1 5 7 None 1 7 7 None 1 7 7 None 1 8 7 None 1 9 7 None 1 9 7 None 1 1 3 5 No	Status Quo Future plan (to at Time Frame Short (1) Medium (3) Long (5) None 1 3 5 N Y/N/NA Ground Water Purchased 7 3 8 10 10 10 11 11 11 11 11 11 11 11 11 11 1	Compliance Status Quo Future plan (to addrest Time Frame Suff Short (1) Medium (3) Long (6) None 1 3 5 N * 9% % Y/N/NA Ground Water Purchased 7% 11 3 5 N * 11 3 5 N * 12 N * 13 5 N * 14 N * 15 N * 16 N * 17 N * 18 N * 18 N * 19 N * 10 N * 10 N * 11 N * 11 N * 12 N * 13 N * 14 N * 15 N * 16 N * 17 N * 18 N * 18 N * 19 N * 10 N * 10 N * 11 N * 11 N * 12 N * 13 N * 14 N * 15 N * 16 N * 17 N * 18 N * 18 N * 18 N * 19 N * 10 N * 10 N * 11 N * 11 N * 12 N * 13 N * 14 N * 15 N * 16 N * 17 N * 18 N * 18 N * 18 N * 19 N * 10 N * 10 N * 10 N * 11 N * 11 N * 12 N * 13 N * 14 N * 15 N * 16 N * 17 N * 18 N * 18 N * 18 N * 19 N * 10 N * 11 N * 10 N * 11 N * 10 N * 10 N * 10 N * 11 N * 11 N * 12 N * 13 N * 14 N * 15 N * 16 N * 17 N * 18 N	Status Quo Status Quo Future plan (to address iss Time Frame Sufficient Short (1) Medium (3) Long (5) None 1 3 5 N * Y/N NA Purchased 7 3 8 Purchased 7 Cotal recieved at WWTW Total Discharged 11 3 Other 12 Other 13	Status Quo Future plan (to address issues) Time Frame Sufficient for Short (1) Medium (3) Long (5) None 1 3 5 N * * * Purchased 7 3 8 Purchased 7 Total pischarged 11a Other 12 osource 13	Status Quo Future plan (to address issues) Time Frame Sufficient for Short (1) Medium (3) Long (5) None 1 3 5 N * * * Y/N/NA % Ground Water Purchased 7 8 1 1 3 5 N * * * Time Frame Sufficient for Y/N/NA % Total recieved at WWTW Total Discharged Total recieved at WWTW Total Discharged Total recieved at WWTW Total Discharged To source 1 3 5 N * * * Time Frame Sufficient for Needs Development Plan Future plan (to address issues) Time Frame Sufficient for Short (1) Medium (3) Long (5) None 1 3 5 N * * Y/N/NA % Total recieved at WWTW Total Discharged Total Recieved at WWTW Total Disch	Status Quo Future plan (to address issues) Time Frame Sufficient for Short (1) Medium (3) Long (5) None 1 3 5 N * * * * * * * * * * * * * * * * * *	Status Quo Future plan (to address issues) Short (1) Medium (3) Long (5) None Purchased 7 Purchased 7 Purchased 7 10 Source 13 Posource 13 Posource 13 Posource Status Quo Future plan (to address issues) Strate Future pla



MOQHAKA LOCAL MUNICIPALITY				WSDP 2012	2		
∞		То	pic 8: Conserva	tion & Dema	nd Ma	nager	nent
Enabling Factors	Compliance		Needs I	Development	Plan		
General Notes: The compliancy and needs development plan section must be completed for each	Status Quo		Future plan (to a	address issues)	Strate	egy
aspect listed			Time Frame	Sufficient for			
TOTAL: Must be completed for Total. If required this page can be completed in multi copies to list and describe more than one system Quality: Information Accuracy Assessment		ASSESSMENT ASSESSMENT In place?	Short (1) Medium (3) Long (5) None	* Basic Higher Level Growth & Development	ASSESSMENT	In place? Sufficient	ASSESSMENT
Quantity: Assessment of Information Completeness		% %	Y/N/N	 A	%	Y/N	%
8.3 Water Losses 8.3.1 •- Raw Water Bulk Loss Raw Water at Treatment - Water Bulk Received Supplied 5 - (1+2+3+14) - 4	% LOSS =						
8.3.3 • - Treated Water Loss: Interna Metered Consumption - Metered Supplied 10 - 9 - Supplied 8.3.4 • - Water Balance Bulk Usage + Discharged Input (1+2+3+7+7a)-4 - 9 + 13	= Value					T	
Sub Topic 8.3 Compliancy & Needs Development Plans Assessment		0% 0%			0%		0%

MOQHAKA LOCAL MUNICIPALITY			MOQ	HAKA LOCAL MUNICIPALITY		
Topic 8: Conservation & Demand Management						∞ ∞
Enabling Factors	Compliance			Needs Developme	nt Pla	n
	Status Quo			Future plan (to address issues	5)	Strategy
OVERALL TOPIC ASSESSME	<u>INT</u>	ASSESSMENT	ASSESSMENT		ASSESSMENT	ASSESSMENT
Quality: Information Accuracy Assessment Quantity: Assessment of Information Completeness						
8.1 WATER RESOURCE MANAGEMENT INTERVENTION 8.2 WATER BALANCE 8.3 WATER LOSSES Comments	ONS	0% 40% 40%		NEEDS DEVELOPMENT PLA Future plan	0%	ategy 0%
				OVERALL QUALIT	Y ASSI	ESSMENT 27%
				OVERALL QUANTII	Y ASS	ESSMENT 27%



Topic 9: Water Resources

* 9.1 Sources & Volumes

* CURRENT Water sources	* Number of sources	* Current abstraction (Mm³/A)	* Licensed abstraction (Mm³/A)	* Commu suţ	nity water oply		ASSESMENT
, i	•	•			I	ASSE	TOCECMENT
				Rural	Urban		
er	18					20	
Water	6	17057				40	I
nal Sources (Bulk purchase)	0					60	I
er returned to source	0					20	
o Topic 9.1 Compliancy & Needs De	evelopment Plans	Assessment		•	•	35%	,

Additional Source Available	* Number of sources	Potential Volume	* Licensed abstraction (Mm³/A)
Groundwater			
Surface Water			
External Sources (Bulk purchase)			

Enabling Factors		Compli	iance					Nee	eds De	evelo	pmen	t Plan				
		Status	Ouo				Future	e plan (t	to addr	ess is	sues)			S	trateg	y
		Otatus	Quo				Time	Frame		Su	fficient	for				
Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: NA):	General Assesment on Scale 1-5 None 0% Limited 20% Partial 40% Good 60% Excellent 80%	Budget, Tools & Equipment & Personnel	ASSESSMENT	ASSESSMENT	In place?		Medi Lon	ort (1) um (3) ng (5) one		RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		Budg & Pe				1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness		Y/N/NA	%	%				Y / N /	/ NA				%	Y	/ N	%
9.2 Monitoring	Is there a Monito	ring Plan in	Place	(Y/	N):											
9.2.1 % of water abstracted monitored: Surface water	n/a		60	60	у	у	У	У		у	у	у	60	у	n	40
9.2.2 % of water abstracted monitored: Groundwater	n/a		60	60	у	у	у	У		у	у	у	60	у	n	40
9.2.3 % of water abstracted monitored: External Sources (Bulk purchase)	20%		60	60	у	у	У	У		у	у	у	60	у	n	40
9.2.4 Water levels (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)	n/a		60	60	у	у	У	У		у	у	у	60	у	n	40
9.2.5 Water quality? (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)	80%		60	60	у	у	у	у		у	у	у	60	у	n	40
9.2.6 Borehole abstraction? (1: daily, 2: weekly, 3: monthly, 4: annually, 5: never)	n/a		60	60	у	у	у	у		у	у	у	60	у	n	40
* 9.2.7 % Compliance to drinking water acceptable limits			60	60	у	у	у	у		у	у	у	60	у	n	40
* 9.2.8 % Compliance to effluent release acceptable limits	40%		60	60	у	у	у	у		у	у	у	60	у	n	40
9.2.9 Number of monitoring points for drinking water sufficient	70%		60	60	у	у	у	у		у	у	у	60	у	n	40
9.2.10 Number of monitoring points for effluent release sufficient	70%		60	60	у	у	у	у		у	у	у	60	у	n	40
Sub Topic 9.2 Compliancy & Needs Development Plans Assessment			60%	60%									60%			409



MOQHAKA LOCAL MUNICIPALITY											V	VSDP	2012				
Topic 9: Water Resources																\	
Enabling Factors			Compli	ance					Nee	ds Dev	/elop	omen	Plan				
			Status	Quo				Future	plan (to	addres	ss iss	sues)			St	trateg	y
			∞ +					Time I	rame		Su	fficient	for				
Resources available to perform function? (Yes: Y, No: N, Partially: P, N/A: NA):	General Assesment on Scale 1-5 None 0% Limited 20% Partial 40% Good 60% Excellent 80%	lace? Y/N	get, Tools & Equipmen Personnel	ASSESSMENT	ASSESSMENT	In place?		Shoi Mediu Long No	ım (3) g (5)		RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment		I I	Budget,				1	3	5	N	*	*	*				
Quantity: Assessment of Information Completeness			Y/N/NA	%	%				Y/N/1	NA				%	Υ,	N N	%
9.3 Water Quality	Is there a Wa	ter (Quality Plan	in Pla	ace (Y / N):	у										
9.3.1 Reporting on quality of water taken from source: urban & rural		у	У	60	60	у	У	у	у		у	у	у	60	у	n	40
9.3.2 Quality of water returned to the resource: urban	20%			20	60	у	у	у	у		у	у	у	60	у	n	40
9.3.3 Quality of water returned to the resource: rural	0%			20	60	у	у	у	у		у	у	у	60	у	n	40
9.3.4 Is there a Pollution contingency measures plan in place?		n	n	0	0	у	у	у	у		у	у	у	60	у	n	40
9.3.5 Quality of water taken from source: urban - % monitored by WSA self?	40%		n	40	60	у	у	у	у		у	у	у	60	у	n	40
9.3.6 Quality of water taken from source: rural - % monitored by WSA self?	40%		n	40	60	у	у	у	у		у	у	у	60	у	n	40
9.3.7 Quality of water returned to the source: urban - % monitored by WSA self?	100%		у	60	60	у	у	у	у		у	у	у	60	у	n	40
9.3.8 Quality of water returned to the source: rural - % monitored by WSA self?	100%		у	60	60	у	у	у	у		у	у	у	60	у	n	40
9.3.9 Are these results available in electronic format? (Yes/no)		у		60	60	у	У	У	у		у	у	у	60	у	n	40
9.3.10 % Time (days) within SABS 241 standards per year	80%		1	60	60	у	у	у	у		у	у	у	60	у	n	40
Sub Topic 9.3 Compliancy & Needs Development Plans Assessment				42%	54%									60%			40%

General Comments

Water abstraction points indicated as 6 consist of: Kroonstad- Water from river & water released from storage dam that is filled from river, Steynsrus- Water from river & water extracted from storage dam that is filled from river, Viljoenskroon- Water from Renoster river & water transfered from Vaal River to renoster during drought periods.

Surface water abstraction combined for all three towns.

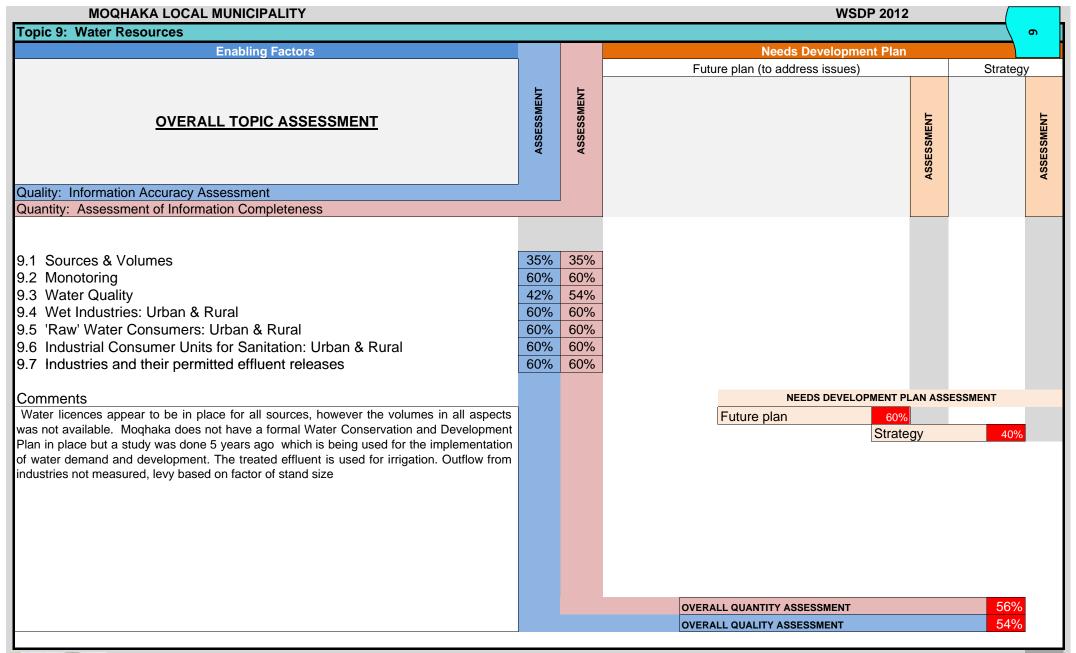
Budgets are available but cash flow restraints delay work.

Qualified staff to do quality monitoring not available.











MOQHAKA LOCAL MUNICIPALITY 2012

Topic 10: Financial Profile

					Trading Se	ervices				
		Housing	Environmental Protection	Waste Management (solid waste)	Waste water management	Road transport	Water	Electricity	Other Trading Services	Grand Total
10.1.1 Income		RM	RM	RM	RM	RM	RM	RM	RM	RM
10.1.1.1	Subsidies From:									
10.1.1.2	National Government									
10.1.1.3	Provincial Government									
10.1.1.4	Local Government									
10.1.1.5	Other									
10.1.1.6	Grants (including the equitable share) from:									
10.1.1.7	National Government									
10.1.1.8	Provincial Government				1.48					1.48
10.1.1.9	Local Government						0.02			0.02
10.1.1.10	Other									
10.1.1.11	Spent conditional grants									
10.1.1.12	Metering & Billing Income				11.4		15.5			26.95
10.1.1.13	Other Income							18.18		18.18
10.1.1.14	Deficit									
	Total Income	0	0	0	12.9	0	15.53	18.18	0	46.63

Comments



MOQHAKA LOCAL MUNICIPALITY													,	WSDF	² 201:	2			
Topic 10: Financial Profile																		$\overline{}$	=
Enabling Factors				С	ompliance							1	Needs D	evelo	pmer	nt Pla	n		
				(Status Quo						Fu	ture pl	lan (to ad	dress i	ssues)	Str	ategy	
		Wa	ater			Sani	tation		ASSESSMENT		In place?	Short Mediu Long Nor	ım (3) g (5)		Higher Level	t .	In place?	Sufficient	
Quality: Information Accuracy Assessment		rban	R	ural	1.14	rban		tural						*	* *				
Quantity: Assessment of Information Completeness		ban	10	urai	0.	iban		urai			1	3	5 N						
	Value Spend	% of Allocation	Value Spend	% of Allocation	Value Spend	% of Allocation	Value Spend	% of Allocation	%	%			Y/N/NA			%	Y/N	۱ %	
* 10.1.2 Capital Expenditure % Allo	ocation spend in	last financia	ıl year																4
	Values to be	given in R millio	on																1
Regional Bulk									0	0	у у	у	у	у	у у	60	у	n 40	,
Internal Bulk									0	0	у у	у	у	у	у у	60	у	n 40	,
Reticulation									0	0	у у	у	у	у	у у	60	у	n 40	,
Backlog Eradication									0	0	у у	у	у	у	у у	60	у	n 40	,
Total cost									0	0	у у	у	у	у	у	60	у	n 40	
Sub Topic 10.1 Compliancy & Needs Development Plans Assessment		•	•	·	•	•	•	·	0%	0%	•		<u> </u>			60%		40	%
10.2 Operation & Maintenance Budget																			П

WATER										
	ITEM		BUDG	ET						
			(R milli	ion)						
	Sales, other	R		-						
Income:	Grants, subsidies, and other	R		-						
	Other income	R		-						
	Total Income	R		-						
	Employee related cost (salaries, allowances, bonuses, medical, pension etc.)	R		9.16						
	Bulk water purchases	R		-						
	General expenditure	R		10.13						
Expenditure:	Municipal rates and services		0	0						
	Operation and Maintenance cost		0	0						
	Depreciation and financial cost		0	0						
	Total Expenditure	R		19.29						
	Surplus/Deficit	R		-19.29						

SANITATION									
	ITEM		BUDGET						
			(R million)						
	Sales, other	R	-						
Income:	Grants, subsidies, and other	R	-						
	Other income	R	-						
	Total Income	R	-						
	Employee related cost (salaries, allowances, bonuses, medical, pension etc.)	R	11.39						
	Bulk waste water charges (external waste water treatment)	R	-						
	General expenditure	R	2.27						
Expenditure:	Municipal rates and services	R	-						
	Operation and Maintenance cost	R	-						
	Depreciation and financial cost	R	-						
	Total Expenditure	R	13.66						
	Surplus/Deficit	R	-13.66						

Sub Topic 10.2 Assessment of the Existance and Status of a Proper Budget

Add scores for Water and Sanitation Budget 0% 0%

Comments

The Operation & Maintenance Budget information was completed by the PSP and extracted from the Statement of Capital and Operating Expenditure for the 4th Quarter ended 30 June 2011(Preliminary results) as extracted from National Treasury web page.

MOQHAKA LOCAL MUNICIPALITY																V	<u>wsd</u>	P 20	12			
10																	To	pic 1	0: Fir	nanc	ial Pr	ofile
Enabling Factors					С	omplian	се								Ne	eds De	evel	opm	ent P	lan		
						Status Qu								Futur	e plan	(to add	dress	issu	es)		Strate	gy
						Volumo	Charges							Tin	ne Frai	me	Suffic	cient	for			
	Five	d Tariff				volume	Charges															
	I IXCC	2 Tallii	Block Def	inition 1 KI	Block Det	finition 2 KI	Block Def	nition 3 KI	Block Defi	nition 4 KI	¥	F						_	Development			Ε̈́
		T		h from: 0		th from: 6	per month		per month		Ä	ME	ce?	5	Short (1)		eke	velo	place?	ient	Ħ
		5	to	6	to	20	to	40	t0	60	SSE	SSE	In place?		edium (` '	RDP	J er l	De	pla	Sufficient	SS
	Current	Previous		1		T					ASSESSMENT	ASSESSMENT	n n	I	_ong (5))		Higher Level	wth & Developm	드	જ	ASSESSMENT
Quality: Information Accuracy Assessment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous	⋖	⋖			None				Growth			⋖
	2011	2010											ŀ	1	3 !	5 N	*	*	*			
Quantity: Assessment of Information Completeness	2011	2010			Y/Y	N / NA					%	%		- '		N / NA			%	΄ `	/ / N	%
10.3 Tariff & Charges	Is there	a Tariff	& Charo	es Plan		for (Y/	N)-	v			60	60	v	v v			v v	, N		0 v	n	60
10.3.1 Residential						nd Previo		,	ars				,	, ,			, ,			, ,	1	
Water Communal Water Supply			0	0	6.6	5.28	7.25	5.8	9.88	6.36	60	60	у	у	у у	_	у	у	y 60	0 у	n	40
Controlled Volume Supply						0.20				0.00	60	60	у		уу				y 60	_	n	40
Uncontrolled Volume Supply	34.92	27.93									60	60	у		уу				y 60	_		40
Sanitation On site dry											60	60	у		уу			_	y 60		n	40
On site wet (conservancy tanks etc.)	321.71	238.26									60	60	у	-	уу	_			y 60		n	40
Water borne reticulated sanitation	70.57	54.26									60		у		уу				y 60		n	40
Enabling Factors					C	omplian	ce						,			eds De						
						Status Qu								Et.		(to ad					Ctroto	~\ /
					'	Siaius Qi	10								ne Frai		Suffi				Strate	у
						Volume	Charges						ŀ		ile i iai	IIC	Sum					
	Fixed	d Tariff							1		-	_							mei			-
				inition 1 KI		finition 2 KI		nition 3 KI	Block Defi		Ę.	NEN I	e?	ç	Short (1)		evel	dole NEW	62	i i	Ę.
			per mont	h from: 0 99999		nth from: to	per mon		per mon	th from: o	SSI	SSI	In place?		edium ((3)	RDP	7	Development	place?	Sufficient	SSI
	Current	Previous	10 98	19999				0		0	ASSESSMENT	ASSESSMENT	l l	I	_ong (5)	~	Higher Level	oth & Developm	=	Sul	ASSESSMENT
											¥	¥			None			Ι.	Growth &			¥
Quality: Information Accuracy Assessment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous									ğ			
Quantity: Assessment of Information Completeness	2011	2010												1	3 !		*	*	*			
Quantity. Assessment of information completeness						N / NA					%	%			Υ/	N / NA			%	6	//N	%
10.3.2 Industrial	Values	to be giv	1		urrent a	nd Previo	us Fina	ncial Yea	ars	T												
Water Industrial			7.81	6.25							60		у		у у				y 60		n	40
Sanitation Industrial											60	60	У	у	у у		У	у	y 60	0 y	n	40
_																						
Comment																						



MOQHAKA LOCAL MUNICIPALITY																	WS	DP 20	<u>012</u>			_/	
Topic 10: Financial Profile																						7	10
Enabling Factors					С	omplian	ice								Ne	eds	Deve	elopm	nent	Plar		\neg	
<u> </u>						Status Qu	10							Futur	e plar	า (to a	ddres	ss issu	ıes)		St	rate	gy
						\/-l	Charges							Tir	me Fra	ame	Suf	fficient	t for				
	Five	d Tariff				volume	Charges																
	1 IXEC	ı raıııı	Block Dof	inition 1 KI	Block Def	inition 2 KI	Block Defi	nition 2 KI	Blook Dof	inition 4 KI	Þ	Þ						<u></u>	m d	5			Þ
		Т		h from: 0	per mon		per mon			nth from:	ASSESSMENT	ASSESSMENT	place?		Short (0	Level	Development	ASSESSMENT	place?	Sufficient	ASSESSMENT
				99999	t	0	t	0	<u> </u>	to	585	:55	pla		ledium	. ,	RDP		, De	SSE	pla	ıffici	SS
	Current	Previous									SSI	SSI	⊆		Long (Higher	th 8	SSI	드	Sı	SSI
Quality: Information Accuracy Assessment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous	⋖	▼			NOTIC	7			Growth &	٨			•
Quality. Information Accuracy Assessment		2010	Current	Fievious	Current	Fievious	Current	rievious	Current	Fievious				4	2	5 N	*	*	*				
Quantity: Assessment of Information Completeness	2011	2010			V / N	I / NA					0/	0/		1		/ N / N/				0/	Y / I	NI.	0/
40.2.2. Communicial	Values	4 - 1	i D	/ I-I fam C			F !	! - I V		1	%	%			1	/ IN / IN/	1			%	1 / 1	IN	%
10.3.3 Commercial	values	to be giv	1	1	urrent ar	ia Previo	us Finar	iciai Yea	ırs		00	00					4	-		00			40
Water Commercial	00.05	54.00	7.81	6.25							60	60	у	у		у	У	У	у	60	У	n	40
Sanitation Commercial	66.35	51.02				Status Qu					60	60	у	у		y /to 4	y	у	у у	60	У	n	40
						siaius Qi	טג											s issue			Sil	rate	Эй
						Volume	Charges							111	me Fra	ame	Sui	fficient					
	Fixed	d Tariff			1						_	_							ment				
				inition 1 KI	Block Def	inition 2 KI	Block Defi	nition 3 KI	Block Def	inition 4 KI		EN	<u>ر</u>		Short (11)		Level	Developm	ASSESSMENT	<u>~</u>	υţ	ASSESSMENT
				h from: 0 99999	per mon	th from:	per mon	th from:		nth from:	ASSESSM	ASSESSMENT	In place?		ledium	. ,	RDP	ı Le	Deve	SSM	place?	Sufficient	SSM
	Current	Previous	10 98	99999		.0		U		to	SES	SES	n p		Long (~	Higher	8	SES	n p	Suff	SES
											AS	AS			None	9		=	Growth &	AS			AS
Quality: Information Accuracy Assessment	Year	Year	Current	Previous	Current	Previous	Current	Previous	Current	Previous									G				
Quantity: Assessment of Information Completeness	2011	2010												1	3	5 N	*	*	*				
Quantity. Assessment of information completeness					Y/N	I / NA					%	%			Υ	/ N / N	A			%	Υ/Ι	N	%
10.3.4 Other	Values	to be giv	en in R	kl for C	urrent ar	d Previo	us Finar	ncial Yea	ırs														
Water			7.64	6.11							60	60	у	у	у	у	у	у	у	60	у	n	40
Sanitation											60	60	у	у	у	у	у	у	у	60	У	n	40
Sub Topic 10.3 Compliancy & Needs Development Plans Assessment											60%									60%			40%
10.4 Free Basic Services	Is there	a Free E	Basic Se	rvices Po	olicy in P						60	60											
10.4.1 Subsidy Targeting Approach	% of H	IH Targeted	I: Water		,	% of HH	Targeted: S	anitation	T	T													
Rising block tariff											0	0	у	у	у	у	у	у	у	60	у	n	40
Service level targeting											0	0	у	у	у у	у	у	у	у	60	У	n	40
* Credits to Water account											0	0	у	у	у у	у	у	у	у	60	У	n	40
* Credits to Sanitation account											0	0	у	у	у у	у	у	У	у	60	У	n	40
* Number of units requiring free basic services (Water)											0	0	у	у	у у	у	у	у	у	60	у	n	40
* Number of units requiring free basic services (Sanitation)											0	0	у	у		у	у	у	у	60	У	n	40
Number of units with access to free basic services				<u> </u>							0	0	у	у	у	у	у	у	у	60	У	n	40
Sub Topic 10.4 Compliancy & Needs Development Plans Assessment											8%	8%								60%			40%

Comment

There is currently no differentiation between Urban and Rural Usage.

All Tariffs are inclusive of VAT. FBW applies to all. There are 7 block tariffs in place and a different tariff is applied on 'other'. The tariff provided is relevant to schools which is the highest. The Waterborne tariff varies depending on the loadsize category. The indicated tariff is for the maximum size. The tariff for Septic tanks and Conservancy tanks also varies, and the indicated tariff is for Septic Tanks. All figures cannot be specified as our financial system combines consumers in groups such as Commerce and Industry, Public Institutions, Schools and Government Departments.



There is no differentiation between Urban and Rural usage.



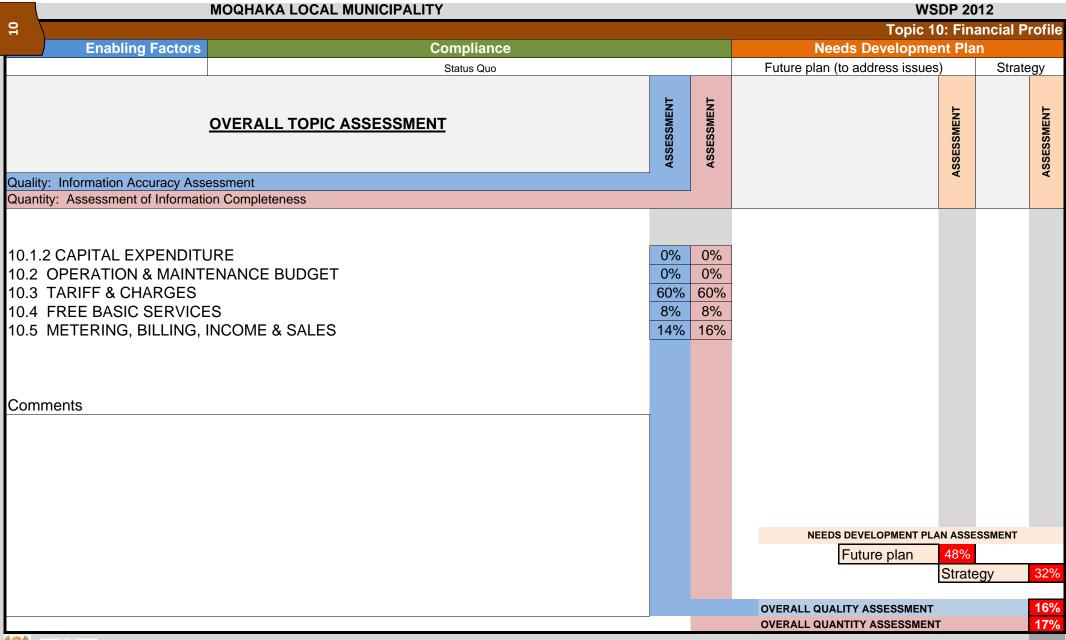
Topic 10: Financial Profile																		10
Enabling Factors			Comp	oliance							Needs	Deve	lopn	nent	Plan			
			Statu	is Quo					Futu	ıre pl	an (to	addres	s issu	ıes)		St	rate	gy
									Ti	ime F	rame	Suf	ficier	nt for				
SANITATION Resources available to perform function?	Ur	ban	Ru	ural	TOTAL	ASSESSMENT	ASSESSMENT	In place?	N	Short Mediu Long Nor	m (3) (5)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
(Yes: Y, No: N, Not Applicable: NA):														9ro				
Quality: Information Accuracy Assessment	Fixed	Value	Fixed	Value Charge					1	3	5 1	N *	*	*				
Quantity: Assessment of Information Completeness	Charge	Charge	Charge	Charge		%	%	Y/ N / NA				%	У/	'N	%			
* 10.5.3 Residential: Sanitation * Units Supplied * Metered %						0	0	У	у	У	У	У	У	У	60	У	n	40
* Billed %						0	0	У	У	У	У	У	У	У	60	У	n	40
* Not Metered						0	0	У	У	У	У	У	У	У	60	У	n	40
* Income Received %						0	0	У	У	У	У	У	У	У	60	У	n	40
* Non Payment %						0	0	У	У	У	У	У	У	У	60	У	n	40
10.5.4 Industrial & Commercial: Sanitation			I					ı							I I			
Units Supplied		L				0	0	У	У	У	У	У	У	У	60	У	n	40
Metered %																		
Billed %						0	0	У	У	У	У	У	У	У	60	У	n	40
Not Metered						0	0	у	у	У	У	у	У	у	60	у	n	40
Income Received %						0	0	у	У	У	У	У	у	у	60	У	n	40
Non Payment %						0	0	У	У	у	У	У	у	у	60	У	n	40
						0	0	У	У	у	У	У	у	У	60	У	n	40
Sub Topic 10.5 Compliancy & Needs Development Plans Assessment			I .				16%					_ ' _			60%			40%

Comments

There is no differentiation between Urban and Rural Usage.



WSDP 2012



SALGA

* BASELINE INFORMATION: COMPULSORY FIELDS

MOQHAKA LOCAL MUNICIPALITY															WSDI	P 201	2		
Topic 11: Water Services Institutional Arrangements Profile																		\neg	11
Enabling Factors				Co	ompli	ian	се					Nec	eds De	evelo	pment	t Plan			
WSA functions and outputs					tatus							plan	(to add					Strate	` gy
						_				T	ime F	rame	S	ufficie	nt for				
Resources available to perform function? (Yes: Y, No: N, Not Applicable: NA):	Policy in Place	Budget	Personnel	Gazetted	Council approved	ASSESSMENT	ASSESSMENT	In place?		Short Mediu Long Not	m (3) (5)	RDP	Higher Level	Growth & Development	ASSESSMENT	In place?	Sufficient	ASSESSMENT
Quality: Information Accuracy Assessment										1	3	5	N *	*	*				
Quantity: Assessment of Information Completeness			Y	/ N / I	NΑ		%	%				Y/N	I / NA			%	Υ/	/ N	%
11.1 General Functions																			
* 11.1.1 Policy development																			
* Indigent Policy		У				у	60	60	у	у	у	у	у	у	у	60	у	n	40
* Free basic water policy (including equitable share)		У				у	60	60	у	у	у	У	у	у	у	60	у	n	40
* Free basic sanitation policy		n				n	0	0	n							0		1	0
* Procurement policy		У				у	60	60	у	у	у	у	у	у	у	60	у	n	40
* Credit control & debt collection policy		у	у	у		у	60	60	у	у	у	у	у	у	у	60	у	n	40
* 11.1.2 Regulation and tariffs							48%	48%								48%			32%
* Water Services bylaws with conditions as required by the Water Services Act		у				у	60	60	у	у	у	у	у	у	у	60	у	n	40
* Mechanisms to ensure compliance with bylaws		n	n	n		n	0	0	n							0			0
* Tariff structure		у				у	60	60	у	у	у	у	у	у	у	60	у	n	40
* Tariffs promulgated		у	у	у		у	60	60	у	у	у	у	у	у	у	60	у	n	40
11.1.3 Infrastructure development (projects)		1					45%	45%								45%			30%
Mechanisms to undertake project / feasibility studies			n/a	n/a			60	60	n							60			60
Criteria for prioritising projects		У				у	60	60	у	У	у	у	у	у	у	60	у	n	40
Mechanisms to assess and approve project business plans		у	у	у			60	60	у	у	у	у	у	у	у	60	у	n	40
Mechanisms for selecting, contracting, managing and monitoring implementing agents		у	у	у		у	60	60	у	у	у	у	у	у	у	60	у	n	40
Mechanisms to monitor project implementation			у	у			60	60	у	у	у	у	у	у	у	60	у	n	40
11.1.4 Performance management and monitoring							60%	60%								60%			44%
Performance management systems		у	у	у		у	60	60	у	у	у	у	у	у	у	60	у	n	40
Water service monitoring and evaluation (M&E) system		n	n	n		n	0	0	n							0			0
11.1.5 WSDP							30%	30%		-				-		30%			20%
WSDP information system Yes: y	No:						60	60	n							0			0
Mechanisms to monitor and report on WSDP implementation Yes: y	No:						60	60	n							0			0
Mechanisms for stakeholder participation Yes: y	No:						60	60	n							0			0
							60%	60%							1	0%			0%



11.2 Bulk & Retail Functions

Water Services Providers	* Name of Provider	* Contract type	Staffing Levels Appropriate	* % Consumers served by t WSP
.2.1 Water Service providers (retail water)				
.2.2 Water service providers (sanitation)				
.2.3 Water service providers (bulk water)				
.2.4 Water service providers (bulk sanitation)				
.2.5 Support service agents (water)				
2.6 Sanitation Promotion agent				
2.7 Support service contracts				
1.2.8 Water service institutions				
1.2.9 WSP staffing levels: water				
1.2.10 WSP staffing levels: sanitation				
2.11 WSP training programme				
b Topic 11.2 Compliancy & Needs Development Plans Assessm	ent	0% 0%		0%
Feasibility studies are done as and when required.				
			NEEDS DEVELOPM	ENT PLAN ASSESSMENT
	11.1.1 POLICY DEVELOPMENT	48% 48%	NEEDS DEVELOPM Future plan	
	11.1.1 POLICY DEVELOPMENT 11.1.2 REGULATION AND TARIFFS	48% 48% 45% 45%		31%
	11.1.2 REGULATION AND TARIFFS	45% 45%		31%
	11.1.2 REGULATION AND TARIFFS 11.1.3 INFRASTRUCTURE DEVELOPMEN	45% 45% 45% 60% 60%		31%
	11.1.2 REGULATION AND TARIFFS 11.1.3 INFRASTRUCTURE DEVELOPMEN 11.1.4 PERFORMANCE MANAGEMENT A	45% 45% 45% 60% 60% AND MONITORING 30% 30%		31%
	11.1.2 REGULATION AND TARIFFS 11.1.3 INFRASTRUCTURE DEVELOPMEN 11.1.4 PERFORMANCE MANAGEMENT A 11.1.5 WSDP	45% 45% 45% 60% 60% AND MONITORING 30% 30% 60% 60% 60%		31%
	11.1.2 REGULATION AND TARIFFS 11.1.3 INFRASTRUCTURE DEVELOPMEN 11.1.4 PERFORMANCE MANAGEMENT A	45% 45% 45% 60% 60% AND MONITORING 30% 30%		31% Strategy 2

MOQHAKA LOCAL MUNICIPALITY **WSDP 2012** Topic 12: Social & Customer Service Requirements **Enabling Factors** Compliancy **Needs Development Plan** Status Quo Future plan (to address issues) Strategy Time Frame Sufficient for Growth & Development Urban Households Rural Households ASSESSMENT ASSESSMENT Resources available to perform function? Higher Level (Yes: Y, No: N, Not Applicable: NA): Short (1) RDP Medium (3) Long (5) None Personnel Budget Quality: Information Accuracy Assessment 3 5 Ν Y/N Y/N % % % % Quantity: Assessment of Information Completeness 12.1 Resources available to Perform this Function: Water & Sanitation Y/N 12.1.1 Attending to Complaints for Water 60 60 n 40 ٧ n n n 12.1.2 Attending to Complaints for Sanitation 60 60 У У У У У 60 n 40 n n n У У 60 60 60 40 12.1.3 Attending to Complaints for Pit/Tank Pumping У У ٧ n n n У У У У У ٧ У n Sub Topic 12.1 Compliancy & Needs Development Plans Assessment 60% 60% 12.2 Attending to Complaints for Water Number Of: 12.2.1 Total number of consumer units 37946 60 60 n 40 1451 60 60 12.2.2 Number of gueries/complaints received within the year У У n 40 У У У У У 60 60 40 * 12.2.3 % Queries responded to within 24 hours 60 У У У У У У n 12.2.4 Number of major or visible leaks reported within the year 1451 60 60 60 40 ٧ ٧ ٧ ٧ ٧ ٧ n У 100 60 60 У 40 60 У У У У У У У n 12.2.5 % Major or visible leaks repaired within 48 hours after being reported * 12.2.6 Number of consumers experiencing greater than 7 days interruption in supply per 0 60 60 60 У 40 У У У У У У У n vear 0 60 60 60 40 12.2.7 Number of consumers receiving flow rate of less than 10 litres per minute ٧ ٧ ٧ ٧ ٧ У n Sub Topic 12.2 Compliancy & Needs Development Plans Assessment 60% 60% 12.3 Attending to Complaints for Sanitation: Discharge to Treatment Works **Number Of:** 37946 60 40 12.3.1 Total number of consumer units 60 У У У n 12.3.2 Number of gueries/complaints received within the year 2346 60 60 У У У У У у 60 n 40 50 40 * 12.3.3 % Queries responded to within 24 hours 60 У У У У У У 60 У n 40 2346 60 60 12.3.4 Number of blockages reported within the year 60 У У У У У У У n 40 35 40 60 40 12.3.5 % Blockages repaired within 48 hours after being reported 60 У У У У У У У У n * 12.3.6 Number of consumers experiencing greater than 7 days interruption in 0 60 60 У У У У У n supply per year 12.3.7 Sanitation promotion and health and hygiene awareness 0 60 60 ٧ ٧ v 60 40 ν n Sub Topic 12.3 Compliancy & Needs Development Plans Assessment 54% 60% 60% 40% 12.4 Attending to Complaints for Sanitation: Pit/Tank Pumping Number Of:

210

240

0

70

85

50

60

40

40

48% 60%

60

60

60

60

У У У

У

У У

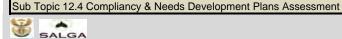
V

У У

у

У

V



12.4.1 Number of pits/ tanks

12.4.2 Number of calls received within the year for emptying

12.4.5 % Pits/tanks pumped within 48 hours of being reported

12.4.4 % Queries responded to within 24 hours

12.4.3 Number of calls received within the year for emergency maintenance to pits/ tanks

40 n

40

40

40

n

n

n

У

У

У

У У

У У

У У

٧

60

60 У

60

60 ٧ n 40





MOQHAKA LOCAL MUNICIPALITY WSDP 2012

Topic 13: Needs Development Plan

LIST OF PROJECTS

39*A*

Description		Program type	ype Wards		
Project Name	Project Number	Autonumber Water Internal Bulk Water Regional Bulk Water Reticulation Water Treatment Works Sanitation Services Housing	Wards Location of Project	Wards Benefit	
ACTIVE PROJECTS: MIG2011/2012; RBIG; ACIP					
Kroonstad and Viljoenskroon:Upgrade Treatment Pla	MIG/FS/140/S/06/06	Internal Sanitation	42001003;42001004;42001005;42	17,23	
Matlwangltlwang: Lining of oxidation ponds phase 2	MIG/FS0614/S/08/08	Internal Sanitation		1	
	MIG/FS0499/S/08/09	Internal Sanitation		14	
Northleigh: Sewer netwk 4000 new res erf -42.4km m	MIG/FS0644/S/08/11	Internal Sanitation		21	
Moqhaka:WTW (Kroonstad)	FS_ACIP_002	Water Internal Bulk			
Moqhaka Bulk Water Supply	FSR010	Water Regional Bulk			
Constantia & Brentpark: Inst of Wet Services for 670	MIG/FS/0500/S/08/10	Water Reticulation		13	
Moghaka: Inst wet service 670 new erven	MIG/FS/0501/W/08/10	Water Reticulation		8-10	
Kroonstad, Viljoenskroon, Steynsrus: Rehab, upgrade	MIG/FS0762/W/09/11	Water Treatment Works	42001007	2,16,25	
CONCEPTUAL & AWAITING FUNDING PROJECTS				, ,	
Rammolotsi: Building of 650 toilet structures on existi	MIG/FS0607/S/07/07	Internal Sanitation			
Moghaka: Construction of toilet structures	Temp_Actpl_00028	Internal Sanitation			
Matlwangtlwang:Upgrade VIPÆs to waterborne deve		Internal Sanitation			
Bucket Eradication : 20 Matlwangtlwang	Temp_MTASret_00050	Internal Sanitation			
Moghaka:Rehabilitation of Sewage System	ID: 153087	Internal Sanitation			
Rammolotsi: Upgrade bulk sewerage infra for pumps	MIG/FS0439/S/07/07	Internal Sanitation			
Upgrading of Sewerage Network - Seeisoville / Maral		Internal Sanitation			
Replacing of main outfall sewer line in Kroonstad	UID_17756635	Internal Sanitation			
Northleigh:Sewer netwk 2200 new res erf -42.4km ma	UID_16483783	Internal Sanitation			
Northleigh:Sewer netwk 2000 new res erf-42.4km ma		Internal Sanitation			
Moghaka Municipality:San Internal Bulk Ref (group e		Sanitation Bulk			
Matlwanglwang: Constr of sewer outfall -1.15km outfl		Sanitation Bulk			
Upgrading of Kroonstad & Viljoenskroon WWTW pha		Sanitation Bulk			
Kroonstad & Viljoenskroon: Refurbishment of the WV		Sanitation Bulk			
Viljoenskroon 5-6 diam sewer line 160 diam	fs_temp0910_0198	Sanitation Bulk			
Kroonstad STP not before 2010 (12 MI)	fs_temp0910_0193	Sanitation Bulk			
Part of GW Development in Steynsrus	fs_temp_0292	Water Internal Bulk	42001001		
Moqhaka Municipality - Water Internal Bulk Ref (grou	fs_temp0910_0300	Water Internal Bulk			
Relocation, upgrading 700m bulk water pipeln to Pho	MIG/FS0009/S/04/05	Water Internal Bulk			
Viljoenskroon: Augmentation of water supply to the in	MIG/FS0076/W/05/06	Water Internal Bulk			
10 MI reservoir in Maokeng	fs_temp0910_0184	Water Internal Bulk			
Rammulotsi old GMS to be replaced	fs_temp0910_0185	Water Internal Bulk			
Matlwangtlwang add storage (600 stands possible)	fs_temp0910_0190	Water Internal Bulk			





Topic 13: Needs Develor 39A n

LIST OF PROJECTS

		Total All	ocation		
Tot1112	Tot1213	Tot1314	Tot1415	Tot1516	Tot1617
0	0	0	0		
1091231.31	0	0	0		
0	0	0	0		
0	3133324	0	0		
6600000		0	0		
649000	8000000	15000000	20000000		
2680000	0	0	0		
5700000	0	0	0		
0	6418341	0	0		
0	0	0	0		
779396	0	0	0		
0	32000000	0	0		
800000	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0			
15700400	15700400	15700400	15700400		
0		0	0		
210720	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		
0	0	0	0		





LIST OF PROJECTS

Description		Program type	Wards Locati	on of Project
Description		Autonumber	vvalus Locati	on or reject
Project Name	Project Number	Water Internal Bulk Water Regional Bulk Water Reticulation Water Treatment Works Sanitation Services Housing	Wards Location of Project	Wards Benefit
Kroonstad: Rehabilitation of pipeline-17.5km pipeline	MIG/FS0053/W/04/05	Water Regional Bulk		
Rep of valves , Installing new meters, Rep faulty met	Temp MTASret 00048	Water Reticulation		
	1			
		_		



Topic 13: Needs Develop 39B 1

LIST OF PROJECTS

Total Allocation LIST OF PROJECTS					
Tot1112	Tot1213	Tot1314	Tot1415	Tot1516	Tot1617
0	0	0	0		
8000000	0	0	0		
			_		





Topic 14: Reporting

MOQHAKA LOCAL MUNICIPALITY

Reporting and assessment documents status

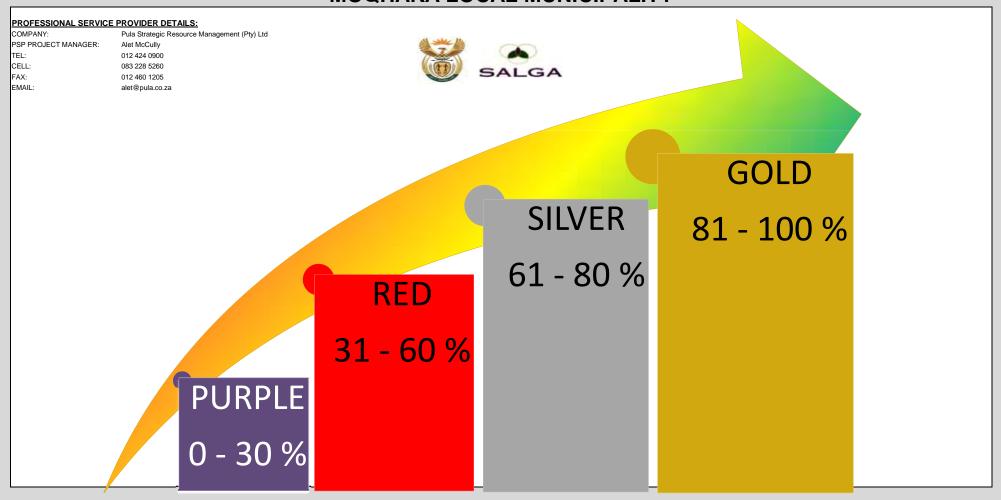
	Documents	Previous Reference date	Included in current WSDP version module 4	Current WSDP version module 4 submission date
1	IDP checklist framework version 2.4:	Completed		
2	DWA Regulatory Performance Management System (RPMS)	Completed & Submitted		
3	WSA Checklist April2005	Not existing		
4	Blue Drop 2010 Assessment Completed & Submitted			
5	Green Drop 2010 Assessment	Completed & Submitted		
6	Water Conservation & Demand Management	Needs review		
		Options	Options	
		In process	Not included	
		Not existing	Included (not complete)	
		Completed	Included (complete)	
		Completed & Submitted		
		Needs review		
Gen	eral Comments	Completed		



WSDP Status Quo Knowledge Interpretation Report

Overall Water Services Planning Status Bar Legend

MOQHAKA LOCAL MUNICIPALITY



MOQHAKA LOCAL MUNICIPALITY

WSDP 2012

68%

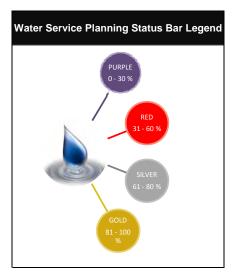
WSDP Status Quo Knowledge Interpretation Report: Demographics Profile (Topic 2)

Settlement Type: Farming Settlement Type: Urban Settlement Type: Rural Public Amneties Consumer Types

Assessment			
Quality Quantity			
SERIES 1	SERIES 2		
60%	60%		
72%	72%		
80%			
56% 62%			

67%

Public Amneties Consumer Types	50% 40% 30% 20% 10% 0% Settlement Type: Urban	Series1 Series2
--------------------------------	---	-----------------



Service Levels Profile Average Total



		DP 2012
WSDP Status Quo Knowledg	Interpretation Report: Demographics Profile (Topic 2)	
Topic 2 - WSDP Strateg	: Interpretation Report	
Strategic Interpretation	n, Implications and Solutions Derived from Spider Diagram	
Settlement Type: FARMING		
Interpret Situation Assessment:		
Define Strategy:		
List Possible Projects:		
Settlement Type: URBAN		
Interpret Situation Assessment:		
Define Strategy:		
List Possible Projects:		
Settlement Type: RURAL		
Settlement Type: RURAL Sitration Sitration States and S		
Define Strategy:		
List Possible Projects:		
Public Amneties Consumer Ty		
Interpret Situation Assessment:		
Define Strategy:		
List Possible Projects:		
ī		

MOQHAKA LOCAL MUNICIPALITY WSDP 2012

WSDP Status Quo Knowledge Interpretation Report: Service Levels Profile (Topic 3)

3.1 SETTLEMENT WATER SERVICE LEVEL DEFINITIONS - CATEGORY 10 - NO SERVICES (FORMAL) CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT

CATEGORY 6 - O&M NEED

CATEGORY 4 - NO SERVICES (INFORMAL)

3.1 SETTLEMENT SANITATION SERVICE LEVEL DEFINITIONS - CATEGORY 10 - NO SERVICES (FORMAL)

CATEGORY 7 - INFRASTRUCTURE UPGRADE, EXTENSION & REFURBISHMENT

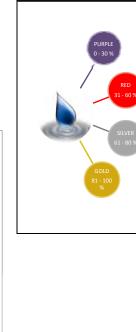
CATEGORY 6 - O&M NEED

CATEGORY 4 - NO SERVICES (INFORMAL)

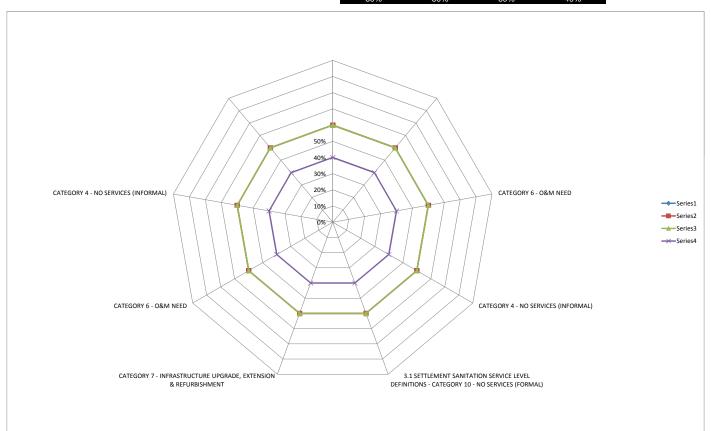
3.3 RESIDENTIAL, PUBLIC INSTITUTIONS AND INDUSTRIES

Assessment		Future Plan	Strategy	
Quality	Quantity	Assessment	Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	

60%	60%	60%	40%



Water Service Planning Status Bar Legend



Service Levels Profile Average Total 55%



MCDD Ct-to		WSDP 2012
	us Quo Knowledge Interpretation Report: Service Levels Profile (Topic 3)	
Topic 3 - V	NSDP Strategic Interpretation Report	
Strategic	Interpretation, Implications and Solutions Derived from Spider Diagram	
	MENT WATER SERVICE LEVEL DEFINITIONS: WATER FORMAL	
Interpret		
nterp		
<u>е</u>	5.66	
Define	Stream	
List		
Poss Li		
	EMENT WATER SERVICE LEVEL DEFINITIONS: WATER INFORMAL	
Interpret		
Interp		
- 07	88	
::		
Strategy:		
Define 8		
Ded		
e e		
lisso		
List Possible		
3.2 SETTLE	EMENT SANITATION SERVICE LEVEL DEFINITIONS: SANITATION FORMAL	
	물	
rpret	Training the state of the state	
Interpret	2 8 5 5 5	
tegy		
Stra		
Define Strategy:		
i pe	ii da	
ssoc	to account	
List Possible		
	MENT SANITATION SERVICE LEVEL DEFINITIONS: SANITATION INFORMAL	
Sipre		
Interpret	4884	
1		
Define	Garage I	
ے ا		
m	9 26	
List		
P & P	28	
3.3 RESIDEN	NTIAL PUBLIC INSTITUTIONS AND INDUSTRIES	
o uet		
Interpret		I

و ا	3.66	
Define	Trans.	
	w	
e e	128.5	I
List		I
ď	۵	

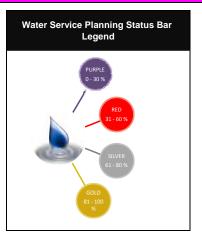
MOQHAKA LOCAL MUNICIPALITY

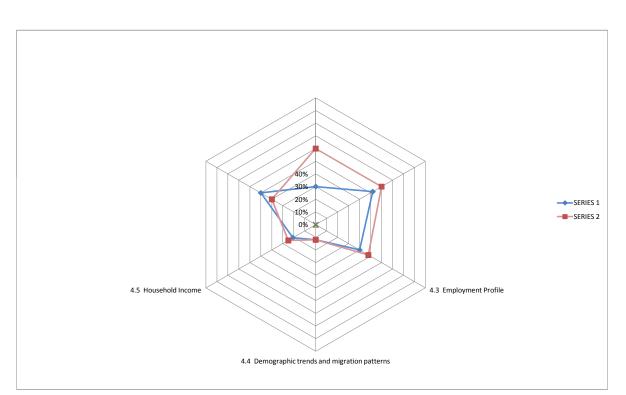
WSDP 2012

- 4.1 General 4.2 Age and Gender Profile
- 4.3 Employment Profile
- 4.4 Demographic trends and migration patterns
- 4.5 Household Income
- 4.6 Economics

Assessment			
Quality	Quantity		
SERIES 1	SERIES 2		
30%	60%		
52%	60%		
40%	48%		
12%	12%		
21%	25%		
50%	40%		

34%	41%





Water Services Infrastructure Average Total 37%

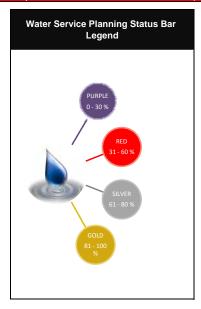
MOQHAKA LOCAL MUNICIPALITY	WSDP 2012 WSDP Status Quo Knowledge Interpretation Report: Economic Background (Topic 4)
	WSDP Status Quo Knowledge Interpretation Report: Economic Background (Topic 4,
Topic 4 - WSDP Strategic Interpretation Report	
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram	
4.1 General	
Stration of the second of the	
I I I I I I I I I I I I I I I I I I I	
Strategy:	
<u>• :8</u>	
La Proseble Poledes:	
4.2 Age and Gender Profile 불	
and the second s	
Nitation Assessment	
State Bey-	
g ii	
le l	
4.3 Employment Profile	
Nuedo de la companya	
SI PARTIES STATE OF THE PARTIE	
Strategy	
Le la possible possib	
4.4 Demographic trends and migration patterns	
Neese street	
Session Sessio	
Strategy:	
0 is	
Le la	
5.5 Household Income	
Intercept Strategy and Strategy	
Strategy:	
Lest Possible Poledes:	
4.6 Economics The part of the	
and and a superior of the supe	
Surface (See See See See See See See See See S	
Define Strategy:	
Doss ble	
é a	
S BALGA	
⋓ salga	VI

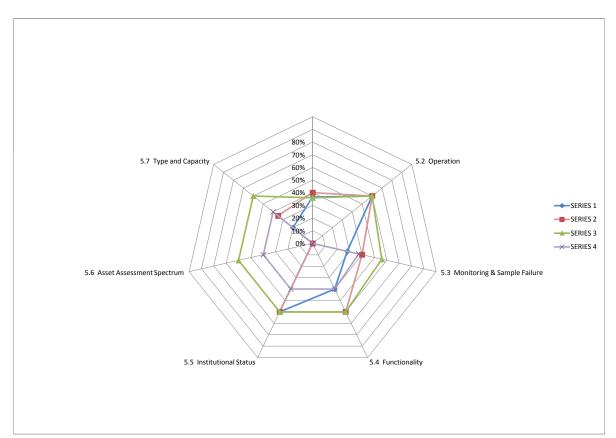
WSDP Status Quo Knowledge Interpretation Report: Water Services Infrastructure Profile (Topic 5)

- 5.1 General Information
- 5.2 Operation
- 5.3 Monitoring & Sample Failure
- 5.4 Functionality
- 5.5 Institutional Status
- 5.6 Asset Assessment Spectrum
- 5.7 Type and Capacity

Assessment		Future Plan Assessment	Strategy Assessment	
Quality	Quantity	Accessinent	Acception	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
37%	40%	36%	0%	
60%	60%	60%	0%	
28%	40%	56%	37%	
40%	60%	60%	40%	
60%	60%	60%	40%	
0%	0%	60%	40%	
20%	35%	60%	40%	

35%	42%	56%	28%





Water Services Infrastructure Average Total 40%

MOQI	ARA LUCAL MUNICIPALITY	WSDP Status Quo Knowledge Interpretation Report: Water Services Infrastruc	ture Profile (Topic 5)				
Topi	opic 5 - WSDP Strategic Interpretation Report						
	rategic Interpretation, Implications and Solutions Derived from Spider Diagram						
5.1 G	noral Information: House of the Control of the C						
	Strategy, Assa						
	Pougeties Signature Signat						
5.2 C	peration:						
	or the control of the						
	Strating:						
	Possible Properties Properties						
5.3 N	ontoring & Sample Failure:						
	notioning & Sample Failure:						
	Define						
	Lest Projects:						
3.4 F							
	nctionality: undinative to the property of th						
	De fine Strategy.						
	Lines Projects:						
5.5 Ir	stitutional Status:						
	Signation Aree escribert.						
	Define Strategy:						
	Pusition Projects:						
5.6 A	Set Assessment Spectrum:						
	Assessment Assessment						
	Define Strategy:						
	Let Proubers						
5.7 T	pe and Capacity:						
	Assessment						
	Define Strawgy						
	Polyched Character Charact						

MOQHAKA LOCAL MUNICIPALITY

WSDP 2012

WSDP Status Quo Knowledge Interpretation Report: Operation & Maintenance (Topic 6)

6.1 OPERATION & MAINTENANCE PLAN

6.2.1 RESOURCES

6.2.2 INFORMATION

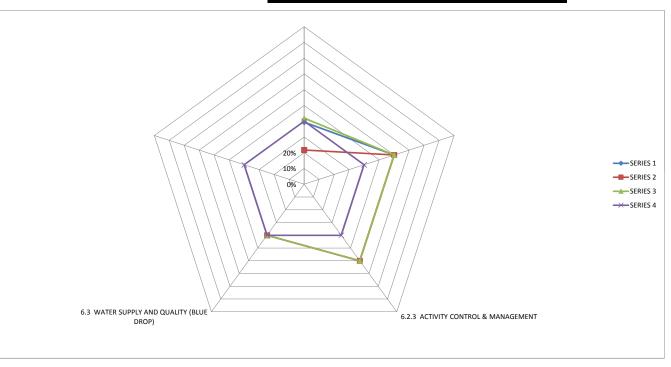
6.2.3 ACTIVITY CONTROL & MANAGEMENT

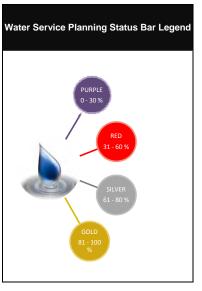
6.3 WATER SUPPLY AND QUALITY (BLUE DROP)

6.4 WASTE WATER SUPPLY AND QUALITY (GREEN DROP)

Asses	sment			
Quality			Strategy Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
0%	0%			
39%	60%	60%	40%	
38%	60%	60%	40%	
36%	60%	60%	40%	
22%	60%	60%	40%	
42%	60%	60%	40%	

30%	50%	60%	40%





Water Services Infrastructure Average Total



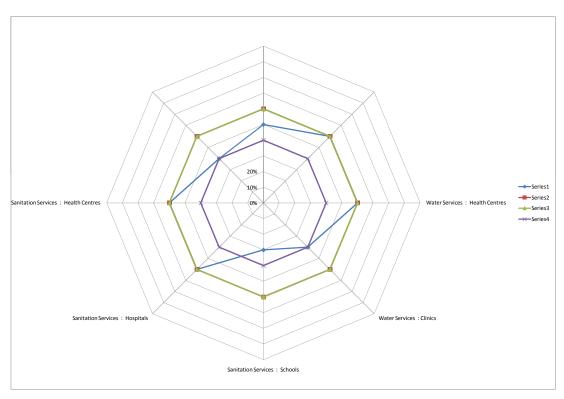


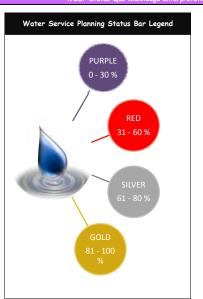
	CAL BIOMETRALTT	WSDP Status Quo Knowledge Interpretation Report: Operation & Maintenance (Topic 6)
Topic 6 - W	SDP Strategic Interpretation Report	
	Interpretation, Implications and Solutions Derived from Spider Diagram	
Interpret		
Define Strateov:		
List Possible	Projects:	
6.2.1 RESOU		
Define Stratecy:		
List Possible	Projects:	
6.2.2 INFORM	MATION	
Interpret	Assemment:	
Define Strateov		
List Possible	TT CONTROL & MANAGEMENT	
Prepriet		
Define Strateov		
6.3 WATER SI	UPPLY AND QUALITY (BLUE DROP)	
Interpret Situation	A Vasia bringing	
Define Strateov		
List Possible	ATER SUPPLY AND QUALITY (GREEN DROP)	
		A control of the cont
Interpret Situation		
Define Strateov		
List Possible	Properties	

MOQHAKA LOCAL MUNICIPALITY WSDP 2012

Asse	Assessment		Strategy		
Quality Quantity		Assessment	Assessment		
SERIES 1	SERIES 2	SERIES 3	SERIES 4		
50%	60%	60%	40%		
60%	60%	60%	40%		
60%	60%	60%	40%		
40%	60%	60%	40%		
30%	60%	60%	40%		
60%	60%	60%	40%		
60%	60%	60%	40%		
40%	60%	60%	40%		

50% 60% 60% 40%





Water Services Infrastructure Average Total

		MOCHAKA LOCAL MUNICIPALITY	WSDP 2012	SDR Status Oue Vocabledos Interpretati	on Panert Arreciated Services (Tonic
		DP Strategic Interpretation Report		SUP Status uno knowledge interpretati	on Report: Associated Services (Topic
Strat Water	Service	Interpretation, Implications and Solutions Derived from Spider Diagram Schools			
	Stuation Assessment				
	Define Shabegy.	Shoots	No.		
	List Possible Projects:				
Water	Service	: Hoppinals			
	Interpret Stuation Assessment				
	Wifne Shabegy.				
	List Possible Projects:	Total Tota			
Water	Service	Half Ceites			
	Interpret Shuation Assessment				
	Wifne Strategy:				
	94 ::				
Water	Service	C Christs			
	Interpret Stuation Assessment:				
	fine Strategy:				
	Possible Del				
	5"				
	Interpret Stuation 6 sessment				
	ne Strategy:				
	Possible Defi				
Sanital	ition Se	vices: Hospitals			
	Interpret Stuation Aspessment				
	Define Strategy.				
	List Possible Projects:	cost: Health Centres	**************************************		
Sanital	ation Ser	des: Health Cortes			
	Interpret Stuation Assessment				
	efine Shabeg				
	Projects:				
Sanital	ation Ser subset	cose Clinics			
	rategy: Shu				
	ble Define St				
	List Possi Projects				<u>.</u>

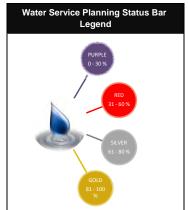
MOQHAKA LOCAL MUNICIPALITY WSDP 2012

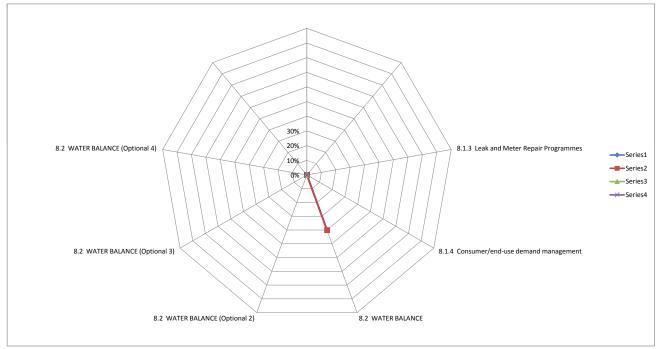
Conservation & Demand Management & Water Balance

- 8.1.1 Reducing unaccounted water and water inefficiencies
- 8.1.2 Reducing high pressures for residential consumers
- 8.1.3 Leak and Meter Repair Programmes
- 8.1.4 Consumer/end-use demand management
- 8.2 WATER BALANCE
- 8.2 WATER BALANCE (Optional 2)
- 8.2 WATER BALANCE (Optional 3)
- 8.2 WATER BALANCE (Optional 4)
- 8.2 WATER BALANCE (Optional 5)

Asses	sment	Future Plan	Strategy
Quality	Quantity	Assessment	Assessment
SERIES 1	SERIES 2	SERIES 3	SERIES 4
0%	0%	0%	0%
0%	0%	0%	0%
0%	0%	0%	0%
0%	0%	0%	0%
40%	40%	0%	0%
0%	0%	0%	0%
0%	0%	0%	0%
0%	0%	0%	0%
0%	0%	0%	0%

4%	4%	0%	0%





Water Services Infrastructure Average Total 2%





UMPAN LOCAL MUNICIPALITY SOF Status Dux Mondage Interpretation Report: Conservation & Demand Management (Topic 8) SOF Status Dux Mondage Interpretation Report: Conservation & Demand Management (Topic 8)	WSDP 2012
opic 8 - WSDP Strategic Interpretation Report	
strategic Interpretation, Implications and Solutions Derived from Spider Diagram	
1.1 Reducing unaccounted water and water inefficiencies	
I DE LEGISLA DE LEGISL	
N Assessment A Assessment A Assessment Asses	
A Assess	
Properties Procession Properties (Procession Properties Procession Properties Procession Properties Procession Properties Procession Properties Procession	
348	
and the state of t	
6	
place of the control	
is a second seco	
12. Reducing high pressures for residential consumers	
Venezione de la proprieta de l	
and the same and t	
8	
** 50	
To the state of th	
Begin by the state of the state	
13 Leak and Meter Repair Programmes	
Name of the control o	
Shirth and	
X.Com	
and the second s	
Properties Define Shangay	
a d	
1.4 Consumer/end-use demand management	
The second secon	
100	
in e 6	
80	
october 1	
d ad	
WATER BALANCE: Water Balance:	
is a g	
<u>x</u>	
Project: Online Straight	
8	
Best State of the	
2 6	
5	
WATER BALANCE (Optional 2):	
WATER BALANCE (Optional 3):	
z WATER BALANCE (Optional 4):	
2 WATER BALANCE (Optional 5):	
	

MOQHAKA LOCAL MUNICIPALITY

8%

WSDP Status Quo Knowledge Interpretation Report: Conservation & Demand Management (Topic 8

Water Losses

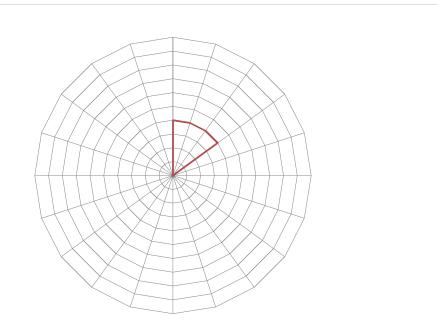
- 8.3.1 Raw Water Bulk Loss
- 8.3.2 Treated Water Loss :Bulk
- 8.3.3 Treated Water Loss :Internal
- 8.3.4 Water Balance
- 8.3.1 Raw Water Bulk Loss (OPTION 2)
- 8.3.2 Treated Water Loss :Bulk
- 8.3.3 Treated Water Loss :Internal
- 8.3.4 Water Balance
- 8.3.1 Raw Water Bulk Loss (OPTION 3)
- 8.3.2 Treated Water Loss :Bulk
- 8.3.3 Treated Water Loss :Internal
- 8.3.4 Water Balance
- 8.3.1 Raw Water Bulk Loss (OPTION 4)
- 8.3.2 Treated Water Loss :Bulk
- 8.3.3 Treated Water Loss :Internal
- 8.3.4 Water Balance
- 8.3.1 Raw Water Bulk Loss (OPTION 5)
- 8.3.2 Treated Water Loss :Bulk
- 8.3.3 Treated Water Loss :Internal
- 8.3.4 Water Balance

Asses	ssment	Future Plan	Strategy Assessment	
Quality	Quantity	Assessment		
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
40%	40%	0%	0%	
40%	40%	0%	0%	
40%	40%	0%	0%	
40%	40%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	
0%	0%	0%	0%	

0%

0%

WSDP 2012



8%



Water Services Infrastructure Average Total 4%

AOQHAKA LOCAL MUNICIPALITY VSDP Status Quo Knowledge Interpretation Report: Conservation & Demand Management (Topic 8)	WSDP 2012					
opic 8 - WSDP Strategic Interpretation Report						
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram						
.3.1 Raw Water Bulk Loss	8.3.2 Treated Water Loss :Bulk					
Assessment:	Interpret Situation Assessmen					
- 1 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	δ ο ο σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ σ					
Projects: Strategy:	Define Strategy:					
	Si Si Di Citation de la Citation de					
Project Projec	Possible Projects:					
3.3.3 Treated Water Loss :Internal	8.3.4 Water Balance					
Interpret Situation Assessment:	ment:					
Seess seess	Interpret Situation Assessment					
∀	3.6					
Strategy:	Define Strategy:					
Projects:						
Projects:						
.3.1 Raw Water Bulk Loss (OPTION 2)	8.3.2 Treated Water Loss :Bulk					
.3.3 Treated Water Loss :Internal	8.3.4 Water Balance					
.3.1 Raw Water Bulk Loss (OPTION 3)	8.3.2 Treated Water Loss :Bulk					
L .3.3 Treated Water Loss :Internal	8.3.4 Water Balance					
.3.1 Raw Water Bulk Loss (OPTION 4)	8.3.2 Treated Water Loss :Bulk					
.3.3 Treated Water Loss :Internal	8.3.4 Water Balance					
.3.1 Raw Water Bulk Loss (OPTION 5)	8.3.2 Treated Water Loss :Bulk					
3.3 Treated Water Loss :Internal	8.3.4 Water Balance					

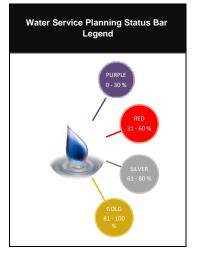
MOQHAKA LOCAL MUNICIPALITY WSDP 2012

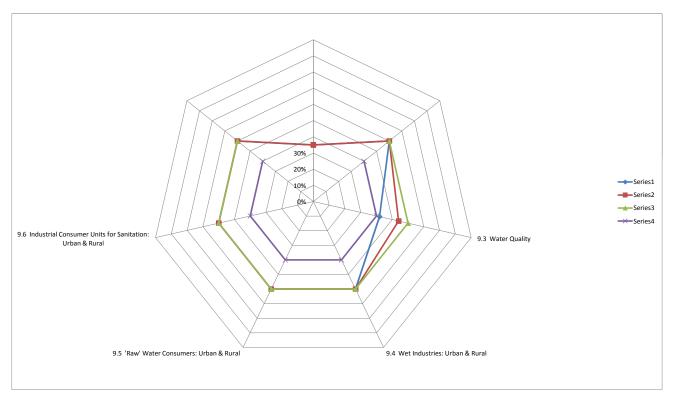
WSDP Status Quo Knowledge Interpretation Report: Water Resources (TOPIC 9)

- 9.1 Sources & Volumes
- 9.2 Monotoring
- 9.3 Water Quality
- 9.4 Wet Industries: Urban & Rural
- 9.5 'Raw' Water Consumers: Urban & Rural
- 9.6 Industrial Consumer Units for Sanitation: Urban & Rural
- 9.7 Industries and their permitted effluent releases

Asses	sment			
Quality	Quantity	Future Plan Assessment	Strategy Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
35%	35%			
60%	60%	60%	40%	
42%	54%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	
60%	60%	60%	40%	

54% 56% 60% 4	0%
---------------	----





Water Services Infrastructure Average Total 52%



	WSDP Status Quo Knowledge Interpretation Report: Water Resources (TOP								
-ор	c 9 - W	DP Strategic Interpretation Report							
Stra	trategic Interpretation, Implications and Solutions Derived from Spider Diagram								
	1 Sources & Volumes:								
.1 4		Volumes							
	Interpret Situation Assessment								
	Define Strategy:								
	List Possible Projects:								
.2	Monotorin								
	Interpret Situation Assessmen								
	Define Strategy:								
	List Possible Projects:								
.3 1	Nater Qu	ifity.							
	Situation Assessmen								
	Define Strategy:								
	List Possible Projects:								
.4 1	Net Indus	les: Urban & Rural:							
	Interpret Situation Assessmen								
	Define Strategy:								
	List Possible Projects:								
.5 '	Raw' Wat	T Consumers: Urban & Rural:							
	Interpret Situation Assessmen								
	Define Strategy:								
	List Possible Projects:								
.6	ndustrial	Consumer Units for Sanitation: Urban & Rural:							
	Interpret Situation Assessmen								
	Define Strategy:								
	List Possible Projects:								
.7	ndustries	I and their permitted effluent releases:							
	Stuation Assessmen								
	Define Strategy:								
	List Possible Projects:								
	4.0	1							

MOQHAKA LOCAL MUNICIPALITY WSDP 2012

WSDP Status Quo Knowledge Interpretation Report: Financial Profile (Topic 10)

10.1.2 CAPITAL EXPENDITURE

10.2 OPERATION & MAINTENANCE BUDGET

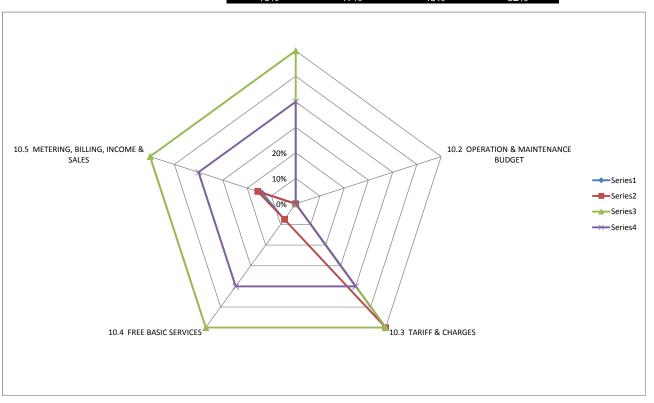
10.3 TARIFF & CHARGES

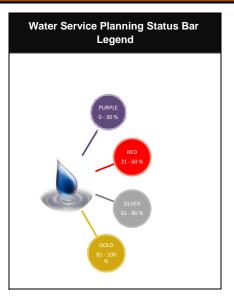
10.4 FREE BASIC SERVICES

10.5 METERING, BILLING, INCOME & SALES

Asses	sment	Future Plan	Strategy Assessment	
Quality	Quantity	Assessment		
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
0%	0%	60%	40%	
0%	0%	0%	0%	
60%	60%	60%	40%	
8%	8%	60%	40%	
14%	16%	60%	40%	

16%	17%	48%	32%





Water Services Infrastructure Average Total



WODD O	QHAKA LOCAL MUNICIPALITY	WSDP 2012					
WSDP Sta	atus Quo Knowledge Interpretation Report: Financial Profile (Topic 10)						
Topic 10	0 - WSDP Strategic Interpretation Report						
Strate	gic Interpretation, Implications and Solutions Derived from Spider Diagram						
,							
10.1.2 C	APITAL EXPENDITURE:						
to to							
erpr	nation of the second of the se						
Ξ	Situation						
	Strategy Str						
<u>isi</u>	Projects:						
10.2 OP	ERATION & MAINTENANCE BUDGET:						
*	ent						
erpre	and the second s	I					
Ē	Struation	I					
	Strategy:						
4							
<u>.ts</u>	Possible Projects:						
10.3 TAF	RIFF & CHARGES:						
erore	and the second s						
=	Siruation Assessment						
	Strategy Str						
	a ii						
ig.	Possible Projects:						
10.4 FRI	EE BASIC SERVICES:						
to to	Situation						
erpra	as a state of the						
Ξ	9 88 8						
	- 5						
	State of the state						
<u>w</u> .	Possible Pos						
10.5 ME	TERING, BILLING, INCOME & SALES:						
t t	Assessment.						
reror							
<u>ڪ</u>	4888						
	A.A.						
	Strategy:	I					
4		I					
*******	9 16						
. <u>ts</u>	Projects:	I					
		I					
L							

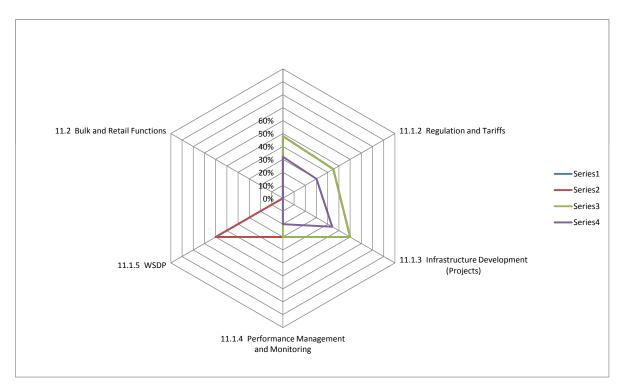
WSDP Status Quo Knowledge Interpretation Report: Water Services Institutional Arrangements Profile (Topic 11)

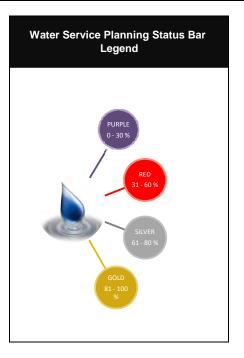
1	1	1	1	ı	Polic	v De	velo	pment
	٠	٠,			i Olio	y DC	V CIO	PITICITE

- 11.1.2 Regulation and Tariffs
- 11.1.3 Infrastructure Development (Projects)
- 11.1.4 Performance Management and Monitoring
- 11.1.5 WSDP
- 11.2 Bulk and Retail Functions

Asses	sment	Future Plan	Stratom	
Quality	Quantity	Assessment	Strategy Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
48%	48%	48%	32%	
45%	45%	45%	30%	
60%	60%	60%	44%	
30%	30%	30%	20%	
60%	60%	0%	0%	
0%	0%	0%	0%	

41%	41%	31%	21%





Water Services Infrastructure Average Total 33%

MOQHAKA LOCAL MUNICIPALITY WSDP 2012

		WSDF Status Vi	lo Knowledge Interpretation Report: Water Services Institution	onal Arrangements Profile (Topic 11)		
Topic '	opic 11 - WSDP Strategic Interpretation Report					
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram						
11.1.1 Policy Development						
	Interpret Situation Assessment:					
	Define Strategy:	Strate gy:				
	List Possible Projects:	Projects:				
11.1.2 K	guiation and	tion and Tariffs		······		
	Interpret Situation Assessment					
	le Define Strategy:					
11.1.3 ln	List Possible Projects:	ucture Development (Projects)				
	끝					
	Interpret Situation Assessmer					
	Define Strategy:					
44.4.4 D	List Possible Projects:	Polod 8:				
11.1.4 P	erformance N	ance Management and Monitoring				
	Interpret Situation Assessment					
	Define Strategy:					
	List Possible Projects:	Projects:				
11.1.5 W	SUP 22 I					
	Interpret Situation Assessmen					
	e Define Strategy:					
11.2 Bulk	List Possibl Projects:	Retail Functions				
Dull	= =					
	Interpre Situation Assessme	Assessment				
	Define Strategy:					
	List Possible Projects:	Projects.				

WSDP 2012 MOQHAKA LOCAL MUNICIPALITY

WSDP Status Quo Knowledge Interpretation Report: Social & Customer Service Requirements (Topic 12)

12.1 RESOURCES AVAILABLE TO PERFORM THIS FUNTION

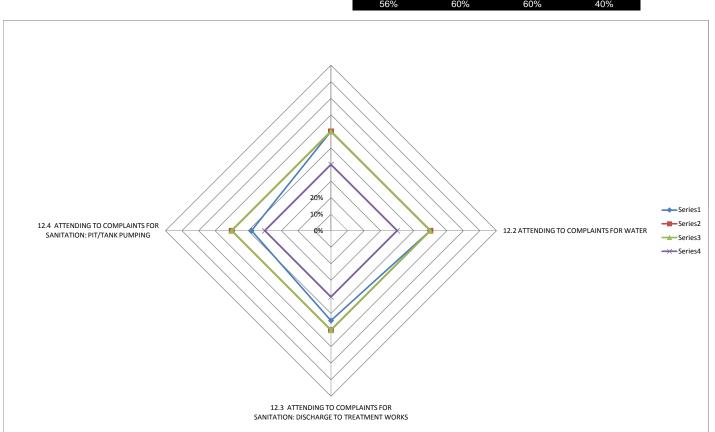
12.2 ATTENDING TO COMPLAINTS FOR WATER

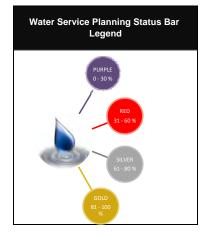
12.3 ATTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS

12.4 ATTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING

Assessment		Future Plan	Strategy	
Quality	Quantity	Assessment	Assessment	
SERIES 1	SERIES 2	SERIES 3	SERIES 4	
60%	60%	60%	40%	
60%	60%	60%	40%	
54%	60%	60%	40%	
48%	60%	60%	40%	

56%	60%	60%	40%





Water Services Infrastructure Average Total 54%





	IAKA LOCAL MUNICIPALITY	WSDP 2012			
WSDP	WSDP Status Quo Knowledge Interpretation Report: Social & Customer Service Requirements (Topic 12)				
Topic 12 - WSDP Strategic Interpretation Report					
Strategic Interpretation, Implications and Solutions Derived from Spider Diagram					
12.1 RI	ESOURCES AVAILABLE TO PERFORM THIS FUNTION				
	Interpret Struction Assessment:				
	Define Strategy:				
	Projects:				
12.2 AT	TTENDING TO COMPLAINTS FOR WATER				
	Interpret Situation Assessment:				
	Define Strategy:				
	Projects:				
12.3 A	TTENDING TO COMPLAINTS FOR SANITATION: DISCHARGE TO TREATMENT WORKS				
12.5 A	Assessment of the control of the con				
	Define Strategy:				
	List Possible Projects:				
12.4 <u>A</u>	TTENDING TO COMPLAINTS FOR SANITATION: PIT/TANK PUMPING				
	Interpret Situation Assessment:				
	Define Strategy:				
	Projects:				

MOQHAKA LOCAL MUNICIPALITY WSDP Status Quo Knowledge Interpretation Report **TOTAL AVERAGES OF TOPICS** SERIES 2 SERIES 3 SERIES 4 Topic 2 - Demographics Profile Topic 2 - Demographics Profile Topic 3 - Service Levels Profile 60% 60% 40% 60% 90% Topic 4 - Socio Economics Background 34% 41% Topic 12 - Social & Customer Service Requirement Topic 3 - Service Levels Profile Topic 5 - Water Service Infrastructure Profile 28% 35% 42% 56% 80% Topic 6 - Operation & Maintenance 40% 30% 50% 60% Topic 7 - Associated Services 50% 60% 60% 40% Topic 8 - Conservation & Demand Management 27% 27% 0% 0% Topic 9 - Water Resources 54% 60% 40% Topic 10 - Financial Profile 16% 17% 48% 32% Topic 11 - Water Services Institutional Arrangements Profile 41% 41% 31% 21% Topic 11 - Water Services Institutional Arrangements Profile Topic 4 - Socio Economics Background 56% 60% 60% 40% Topic 12 - Social & Customer Service Requirements ----Series1 ----Series3 Topic 10 - Financial Profile Topic 5 - Water Service Infrastructure Profile Topic 9 - Water Resources Topic 6 - Operation & Maintenance Topic 8 - Conservation & Demand Management Water Services Infrastructure Average Total 41% **Overall Water Services Planning Status Bar Legend**

