

TABLE D.1: PROJECT LIST AND FUNDS NEEDED TO ADDRESS THE WATER AND SANITATION INFRASTRUCTURE BACKLOGS UP TO 2010/2011

TOWN	PROJECT NAME	COMMENTS	WATER / SANITATION	PROJECT TYPE	2008/2009	2009/2010	2010/2011	FUNDING SOURCE
Management Area	Fences around sewer dams		Sanitation	Safety	R60,000	R66,000	R75,000	EFF, CRRF
	Telemetry: Sewer		Sanitation	Management	R50,000	R55,000	R60,500	EFF, CFFR
	Metering of influent at WWTWs, treated effluent discharge into WR System and treated effluent re-used		Sanitation	Bulk meters		R500,000		Identify funds
	Sub Total				R110,000	R621,000	R135,500	
Malmesbury	Malmesbury sewerage works (extensions)		Sanitation	WWTW	R15,507,891	R20,000,000	R20,000,000	EFF, MIG, CRRF
	Waterpipe: Piet Retief Street		Water	Reticulation		R440,000		CRRF
	MAW1.1: Proposed 3.2 Mi Reservoir		Water	Additional storage capacity		R4,222,000		
	MAW1.2: 940m x 300mm dia future main pipe		Water	Upgrade network		R1,484,000		
	MAW1.3: 1010m x 200mm dia future main pipe		Water	Upgrade network		R955,000		
	MAW1.4: Proposed pump station (27 l/s @ 25m)		Water	New pump station		R999,000		
	MAW1.5: 875m x 200mm dia future main pipe		Water	Upgrade network		R844,000		
	MAW2.1: 1126m x 400mm dia supply parallel pipe reinforcement		Water	Upgrade network			R2,401,000	
	MAW2.2: Proposed 4 Mi Reservoir		Water	Additional storage capacity			R4,816,000	
	MAW2.3: 1960m x 500mm dia future main pipe		Water	Upgrade network			R5,353,000	
	MAW2.4: 35m x 250mm dia connection		Water	Upgrade network			R201,000	
	MAW2.5: 1540m x 250mm future main pipe		Water	Upgrade network			R1,733,000	
	MAW2.6: 190m x 200mm dia future main pipe		Water	Upgrade network			R284,000	
	MAW2.7: Proposed PRV (Setting = 65m)		Water	Upgrade network			R118,000	
	MAW2.8: 2735m x 200mm dia future main pipe		Water	Upgrade network			R2,365,000	
	MAW2.9.1: 70m x 200mm dia future main pipe		Water	Upgrade network			R186,000	
	MAW2.9.2: Proposed PRV (Setting = 27m)		Water	Upgrade network			R118,000	
	MAW2.10.1: 195m x 200mm dia future main pipe		Water	Upgrade network			R288,000	
	MAW1.10.2: Proposed PRV (Setting = 42m)		Water	Upgrade network			R118,000	
	MAW2.11: Proposed PRV (Setting = 77m)		Water	Upgrade network			R118,000	
	MAW2.12: Closed Valve		Water	Upgrade network				
	MAW2.13: 55m x 200mm dia connection		Water	Upgrade network			R174,000	
	MAW2.14: 565m x 350mm dia future main pipe		Water	Upgrade network			R1,147,000	
	MAW2.15: Proposed PRV (Setting = 30m)		Water	Upgrade network			R118,000	
	MAW2.16: 400m x 350mm dia future main pipe		Water	Upgrade network			R885,000	
	MAW2.17: 425m x 300mm dia future main pipe		Water	Upgrade network			R789,000	
	MAW2.18: Proposed PRV (Setting = 50m)		Water	Upgrade network			R118,000	
	MAW2.19: 900m x 250mm dia future main pipe		Water	Upgrade network			R1,081,000	
	MAW2.20: Proposed pump station (45 l/s @ 40m)		Water	New pump station			R827,000	
	MAW2.21: 390m x 300mm dia future main pipe		Water	Upgrade network			R742,000	
	MAW2.22: Proposed PRV (Setting = 38m)		Water	Upgrade network			R118,000	
	MAW2.23: 55m x 250mm dia future main pipe		Water	Upgrade network			R221,000	
	MAW2.24: 565m x 250mm dia future main pipe		Water	Upgrade network			R740,000	
	MAW2.25: 345m x 200mm dia future main pipe		Water	Upgrade network			R411,000	
	MAW2.26: Proposed PRV (Setting = 30m)		Water	Upgrade network			R118,000	
	MAW2.27: 1020m x 200mm dia future main pipe		Water	Upgrade network			R963,000	
	MAW3.1: 132m x 160mm dia supply parallel pipe reinforcement		Water	Upgrade network			R191,000	
	MAW3.2: Proposed 0.7 Mi Reservoir		Water	Additional storage capacity			R1,756,000	
	MAW3.3: 235m x 150mm dia future main pipe		Water	Upgrade network				
	MAW3.4: Closed Valve		Water	Upgrade network				
	MAW3.5: Closed Valve		Water	Upgrade network				
	MAW3.6: Open Valve		Water	Upgrade network				
	MAW3.7: Closed Valve and remove PRV		Water	Upgrade network				
	MAW3.8: Open Valve		Water	Upgrade network				
	MAW3.9: Open Valve		Water	Upgrade network				
	MAW3.10: Open Valve		Water	Upgrade network				
	MAW3.11: Closed Valve		Water	Upgrade network				
	MAW4.1: 1090m x 200mm dia supply pipe		Water	Upgrade network			R1,020,000	
	MAW4.2: Proposed 1.8 Mi reservoir		Water	Additional storage capacity			R2,989,000	
	MAW4.3: 1090m x 250mm dia future main pipe		Water	Upgrade network			R1,275,000	
	MAW4.4: 1890m x 200mm dia future main pipe		Water	Upgrade network			R1,674,000	
	MAW5.1: 365m x 200mm dia future main pipe		Water	Upgrade network			R427,000	
	MAW5.2: 75m x 150mm dia future main pipe		Water	Upgrade network				
	MAW5.3: Closed Valve		Water	Upgrade network				
	MAW5.4: Closed Valve		Water	Upgrade network				
	MAW5.5: Closed Valve		Water	Upgrade network				
MAW5.6: Closed Valve		Water	Upgrade network					
MAW5.7: Proposed pump station (25l/s @ 20m)		Water	New pump station			R182,000		
MAW6.1: 480m x 200mm dia future main pipe		Water	Upgrade network			R521,000		
MAW7.1: Investigate booster sub-district boundaries in the Panorama Reservoir District		Water	Upgrade network					
MAS1.1: 659m x 200mm dia gravity pipe		Sanitation	Upgrade network		R683,000			
MAS1.2: 864m x 200mm dia gravity pipe		Sanitation	Upgrade network		R889,000			
MAS2.1: 3065m x 250mm dia rising main		Sanitation	Upgrade network		R3,285,000			
MAS2.2: New 110 l/s pump station		Sanitation	New pump station		R984,000			
MAS2.3: 1510m x 300mm dia gravity pipe		Sanitation	Upgrade network		R2,206,000			
MAS2.4: 831m x 250mm dia gravity pipe		Sanitation	Upgrade network		R1,022,000			
MAS2.5: 2245m x 200mm dia gravity pipe		Sanitation	Upgrade network		R2,273,000			
MAS2.6: 1588m x 200mm dia gravity pipe		Sanitation	Upgrade network		R1,614,000			
MAS3.1: 609m x 200mm dia gravity pipe		Sanitation	Upgrade network		R633,000			
MAS4.1: 363m x 250mm dia gravity pipe		Sanitation	Upgrade network			R459,000		
MAS4.2: 277m x 200mm dia gravity pipe		Sanitation	Upgrade network			R300,000		
MAS5.1: New 5 l/s pump station		Sanitation	New pump station			R252,000		
MAS5.2: 1400m x 110mm dia rising main		Sanitation	Upgrade network			R830,000		
MAS6.1: 845m x 149mm dia gravity pipe		Sanitation	Upgrade network					
Sub Total					R15,507,891	R42,233,000	R58,427,000	

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Abbotsdale	Abbotsdale Sewer Connections: Indigent households and buckets		Sanitation	Reticulation	R2,600,000			EOS
	SAbotW 1.1: Construct new 500 kl reservoir at existing reservoir site		Water	Additional storage capacity		R1,428,000		
	SAbotW 1.2: 565m x 160mm dia supply pipe		Water	Upgrade network		R300,000		
	SAbotW 1.3: New 15 l/s pump station		Water	New pump station		R840,000		
	SAS1.1: 490m x 160mm dia new outfall sewer		Sanitation	Upgrade network		R272,400		
	SAS1.2: Upgrade pump station to 9 l/s		Sanitation	Upgrade pump station		R105,600		
	Sub Total				R2,600,000	R2,946,000	R0	
Riverlands/Chatsworth	WTP upgrades		Water	Upgrade treatment works			R1,429,200	
	SCS1.1: 1930m X 160mm dia new outfall sewer		Sanitation	Upgrade network		R1,008,000		
	Extensions and upgrades to existing WWTWs		Sanitation	Upgrade treatment works			R3,097,200	
	Sub Total				R0	R1,008,000	R4,526,400	
Kalbaskraal	SKaW1.1: Construct new 700 kl reservoir at existing reservoir site		Water	Additional storage capacity		R1,704,000		
	SKaW1.2: 565m x 160mm dia parallel reinforcement of main pipe		Water	Upgrade network		R540,000		
	WTP upgrades		Water	Upgrade treatment works			R938,400	
	SKaS1.1: 264m x 160mm dia new outfall sewer		Sanitation	Upgrade network		R157,200		
	SKaS1.2: Upgrade pump station to 14 l/s		Sanitation	Upgrade pump station		R112,800		
	SKaS2.1: New 5 l/s pump station		Sanitation	New pump station		R358,800		
	SKaS2.2: 373m x 110mm new rising main		Sanitation	Upgrade network		R158,400		
	Sub Total				R0	R3,031,200	R938,400	
Darling	S40 Housing Project Darling: Sewer Pump Station		Sanitation	Pump Station	R1,216,217			EFF
	SDaW1.1: Construct new 1000 Kl reservoir at existing reservoir site		Water	Additional storage capacity		R2,232,000		
	SDaW1.2: 454m x 160 dia supply pipe		Water	Upgrade network		R288,000		
	SDS1.1: 169m x 200mm dia new outfall sewer		Sanitation	Upgrade network		R124,800		
	SDS1.2: 549m x 250mm dia upgrade existing outfall sewer		Sanitation	Upgrade network		R523,200		
	SDS1.3: 623m x 375mm dia upgrade existing outfall sewer		Sanitation	Upgrade network		R738,000		
	Sub Total				R1,216,217	R3,906,000	R0	
Koringberg	SKoW1.1: Construct new 250 kl reservoir at existing site		Water	Additional storage capacity		R864,000		
	SKoW1.2: 270m x 110mm dia supply pipe		Water	Upgrade network		R108,000		
	SKoS1.1: 70m x 160mm dia new outfall sewer and railway crossing		Sanitation	Upgrade network		R141,600		
	SKoS1.2: 124m x 160mm dia new outfall sewer		Sanitation	Upgrade network		R84,000		
	SKoS1.3: 142m x 160mm dia new outfall sewer		Sanitation	Upgrade network		R94,800		
	Extensions and upgrades to existing WWTWs		Sanitation	Upgrade treatment works			R1,516,800	
	Sub Total				R0	R1,292,400	R1,516,800	
Moorreesburg	Moorreesburg Water Pump Station		Water	Pump Station	R1,000,000			EFF
	Supply water to sport grounds and re-use of excessive sewerage water		Sanitation	Reticulation	R150,000	R900,000		EFF, CRRF
	Water saving taps for Moorreesburg and surrounding areas		Water	Reticulation	R50,000	R55,000	R60,500	EFF, CRRF
	SMoS1.1: 474m x 200mm dia upgrade existing outfall sewer		Sanitation	Upgrade network		R308,400		
	SMoS1.2: 1568m x 375mm dia upgrade existing outfall sewer		Sanitation	Upgrade network		R1,816,800		
	Sub Total				R1,200,000	R3,080,200	R60,500	
Riebeeck West	SRWesW1.1: Construct new 1000kl reservoir at existing site		Water	Additional storage capacity		R2,232,000		
	SRWesW1.2: 890m x 160mm dia parallel reinforcement of main pipe		Water	Upgrade network		R792,000		
	SRWesS1.1: 147m x 160mm dia new outfall sewer		Sanitation	Upgrade network		R96,000	R2,851,200	
	Extensions and upgrades to existing WWTWs		Sanitation	Upgrade treatment works				
	Sub Total				R0	R3,120,000	R2,851,200	
Riebeeck Kasteel	Riebeeck Kasteel: Sewerage (Phase VI) Final Phase		Sanitation	Reticulation	R3,750,000			EFF
	SRKS1.1: New 10 l/s pump station		Sanitation	New pump station		R420,000		
	SRKS1.2: 1257m x 110mm dia new rising main		Sanitation	Upgrade network		R456,000		
	Sub Total				R3,750,000	R876,000	R0	
Farms	Provide basic water services on the farms (R6000/Household)		Water	Basic Services		R2,106,000		Identify funds
	Provide basic sanitation services on the farms (R6000/Household)		Sanitation	Basic Services			R10,242,000	Identify funds
Sub Total				R0	R2,106,000	R10,242,000		
TOTALS					R24,384,108	R64,219,800	R76,697,800	