

Appendix D
Water Balances for Selected
Areas Supplied from Local Resources

Table 1-1: Summary of key areas and towns with water resources

Name of town	Quaternary catchment	Key notes
ORANGE TRIBUTARIES SUB-AREA		
Ongers Sub-catchment		
Strydenburg	D62G	Groundwater as source. New abbatoir has been set up. Borefield will need to be expanded to meet the demand. Deficit
Vosburg	D62B	Groundwater as source No Deficit
Britstown	D62A	Close to a tributary of the Ongers. Groundwater as source. No Deficit but water borne sewage is being contemplated. This will stretch current supply system.
De Aar/ Bellary	D62D & C	Close to the Brak River Source. Groundwater is source. No deficit
Victoria West	D61E	Upper reaches of the Ongers. Groundwater is the source while Victoria West Dam is use to augment supply when it has water. No Deficit according to Regional Office.
Hutchinson	D61E	Upper reaches of the Ongers. Groundwater is source. No Deficit .according to Regional Office
Richmond	D61A	Upper reaches of the Ongers. Groundwater is source. No Deficit according to Regional Office
Sak-Hartbees Sub-catchment		
Kenhardt	D53C	Close to main Hartbees Town dam used for augmentation when water is available. Source is groundwater. No Deficit
Copperton / Proteapark	D54D	Water from Prieska on Orange main stem. No Deficit
Vanwyksvlei	D54B	Close to main Hartbees River. Source is groundwater. Deficit . The groundwater resources are being overexploited. New boreholes are being drilled and existing boreholes rehabilitated.
Carnarvon	D54B	Source is groundwater. Deficit . New boreholes are being drilled and equipped with pumps.
Loxton	D55D	Upper reaches of Sak River. Source is Loxton Dam & groundwater. No Deficit according to Regional Office.
Fraserburg	D55E	Upper reaches of Sak River. Source is Nuwe Dam & groundwater. Some groundwater quality problems but a treatment plant for H ₂ S are being constructed. No Deficit according to Regional Office.
Sutherland	D51A	Upper reaches of Sak River. Source is groundwater. A treatment plant has been constructed to deal with the water

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		quality problems associated with the groundwater. No Deficit according to Regional Office.
Williston	D55L	Upper reaches of Sak River. Source is groundwater. No Deficit
Brandvlei / Jonkerskop	D57C	Close to the main Sak River. Source is groundwater. No Deficit according to WSAM balance.
ORANGE SUB-AREA		
Boegoeberg Sub-catchment		
Lime Acres	C92C	Lower Vaal WMA
Griekwastad	D71B	Upper reaches of a small tributary of Orange. Groundwater is source. No deficit
Niekerkshoop	D71D	Groundwater is source No deficit
Douglas	D92C	From Orange River main stem. No deficit
Prieska	D72B	From Orange River main stem. No deficit
Westerberg / Koegasbrug	D72B	From Orange River main stem. No deficit . A mining town which has largely disappeared
Marydale	D72C	Groundwater is source. No Deficit
Neusberg Sub-catchment		
Grobbershoop	D73D	From Orange River main stem. No deficit .
Upington	D73E	From Orange River main stem. No deficit
Louisvale / Oranjevallei / Klippunt	D73F	From Orange River main stem. No deficit
Kanoneiland	D73F	From Orange River main stem. No deficit
Keimoes / Tierberg	D73F	From Orange River main stem. No deficit
Eksteenskuil	D73F	From Orange River main stem. No deficit
Kakamas / Lutzburg / Cillie	D73F	From Orange River main stem. No deficit
Nossob-Molopo Sub-catchment		
Mier		Groundwater
Askham		Groundwater
Vioolsdrift Sub-catchment		
Augrabies	D81A	From Orange River main stem. No deficit
Marchand	D81A	From Orange River main stem. No deficit
Pella	D81G	From Orange River main stem (Pelladrift scheme) No deficit ..

Name of town	Quaternary catchment	Key notes
Pofadder	D81G	From Orange River main stem (Pelladrift scheme). No deficit
Aggeneys	D82C	From Orange River main stem (Pelladrift scheme). No deficit
Black Mountain	D82C	From Orange River main stem (Pelladrift scheme). No deficit
Onseepkans	D81E	From Orange River main stem. No deficit
Concordia	D82D	From Orange River main stem (Springbok/Namakwa WB scheme). No deficit
Alexander Bay Sub-catchment		
Vioolsdrift	D82F	From Orange River main stem. No deficit
Kuboes	D82K	Orange River main stem No deficit
Alexander Bay	D82L	From Orange River main stem. No deficit
COASTAL SUB-AREA		
Port Nolloth	F20D	From Orange River main stem. (Pipeline from Alexander Bay system). Groundwater system is being rehabilitated. No deficit
Steinkopf	F30E	From Orange River main stem (Springbok/Namakwa WB scheme). No deficit
Nababeep	F30E	From Orange River main stem (Springbok/Namakwa WB scheme). No deficit
Okiep	F30E	From Orange River main stem (Springbok/Namakwa WB scheme). No deficit
Springbok / Bergsig / Matjieskloof / Simonsig	F30D	From Orange River main stem (Springbok/Namakwa WB scheme). No deficit
Kleinzee	F30G	From Orange River main stem (Springbok/Namakwa WB scheme). Augment from subsurface dam in Buffels River No deficit
Komaggas	F30G	Groundwater is source No Deficit
Koiingnaas (De Beers Mine)	F40D	Groundwater is source (Somnaasnoup aquifer). No Deficit
Kamieskroon	F30C	Groundwater is source No deficit
Hondeklipbaai	F40F	Groundwater is source. Supplied from Koiingnaas by District Council
Kharkams	F40E	Groundwater is source No deficit
Garies	F50F	Groundwater is source. Deficit as run out on occasions

Name of town	Quaternary catchment	Key notes
		due to poor management of borehole systems. There are two sources of water viz a fresh and brackish source. A management plan is being developed to manage the two systems optimally.