



water & sanitation

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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	2
E1R002	(continued)										
		741.70	Solar Rad. (mW/Sq. cm)	Raw logger data			2005-08-26	2018-06-18	16% missing		
		816.70	Pressure (mm)	Raw Logger Data mm/bar			2006-01-22	2018-06-18	2% missing		
Components								Component Period			
	E1H008		Right Canal from Clanwilliam Dam @ Andriesgrond				1935-05-29				
	0084701		Clanwilliam				1935-06-01	1973-12-31			
	E1H011		Olifants River @ Andriesgrond				1935-06-01	1997-11-17			
	E1E001		Bulshoek				1935-09-01	1948-01-31			
	E1H009		Turbine-Outlet (Right) @ Andriesgrond				1937-05-01	1991-10-01			
	E3E001		Rentia				1948-02-01	1958-05-31			
	E3E002		Vredendal				1958-06-01	1973-12-31			
	E1E004		Andriesgrond @ Clan William Dam				1974-01-01				
	E1H010		Right Pipeline from Clanwilliam Dam @ Andriesgrond				1977-06-01				
	E1H014		Pipeline to Leisure Resort @ Andriesgrond				1990-11-01				
E4R001	Karee River @ Calvina Nat. Park				31:25:42	19:47:17	E40B	18	Karee Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	7.62	1051.90	14.34	0.49	0.49		1961-10-25	Original			
	10.21	1054.49	21.50	0.95	0.95		1970-06-01	Raised			
	10.07	1054.49	21.50	0.95	0.95		1979-06-19	A01 - Adjusted			
	10.07	1054.49	21.52	0.95	0.95		1992-10-01	Basin survey			
Data								Data Period			
	10.70	Rainfall (mm.)	Tipping Bucket				2016-07-22	2018-06-03			
	100.00	Level (Metres)					1961-10-25	2019-05-20	11% missing		
	230.09	Level (m)	4 Water Cello				2013-02-07	2013-06-06			
Components								Component Period			
	E4E001		Calvina				1961-11-25				
	E4H002		Pipeline from Karee Dam to Purification Works				1961-11-25				
G1R001	Voelvl ei River @ Vogel Vall ij				33:20:22	19:01:46	G10F	42	Voelvl ei Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	8.50	70.18	1036.74	42.99	50.44		1951-06-25	Original			
	17.65	79.33	1523.95	159.64	167.09		1970-08-01	Raised			
	17.65	79.33	1573.00	164.31	172.82		1978-10-01	Basin survey			
	17.65	79.33	1524.75	158.78	165.24		1999-10-01	Basin survey			
	17.65	79.33	1522.24	158.59	163.73		2017-11-01	Basin survey			
Data								Data Period			
	10.50	Rainfall (mm.)	MeteoSat (realtime)				2005-08-11	2006-03-02	72% missing		
	10.61	Rainfall (mm.)	4 WATER Cello (realtime)				2014-11-22	2018-07-03	46% missing		
	10.70	Rainfall (mm.)	Tipping Bucket				2003-02-19	2006-04-26			
	100.00	Level (Metres)					1951-06-25	2020-05-12			
	2065.70	Air Temperature (°C)	Raw logger data				2003-02-19	2006-04-26	4% missing		
	2070.70	Relative Humidity(P)	Raw logger data				2003-04-07	2006-04-26	2% missing		
	230.04	Level (m)	HYDRAS 3				2005-07-20	2012-06-27	35% missing		
	230.09	Level (m)	4 Water Cello				2012-10-04	2018-07-17	7% missing		



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G1R001	(continued)										
	500.70	Wind Direc (Deg)	Raw logger data				2003-02-19	2006-04-26	5% missing		
	515.70	Wind Speed (M/S)	Raw logger data				2003-02-19	2006-04-26	5% missing		
	741.70	Solar Rad. (mW/Sq. cm)	Raw logger data				2003-02-19	2006-04-26	8% missing		
Components								Component Period			
	G1H066	Little Berg River Inlet Canal @ Nieuwklouf					1951-06-25				
	G1H068	Swartland-Pipeline @ Vogel Vallij					1951-06-25				
	0042227	Tulbagh					1951-06-26				
	G1H065	Canal from Voelvllei Dam @ Vogel Vallij					1951-10-01				
	G1E002	Vogel Vallij @ Voelvllei Dam					1952-07-01				
	G1H069	Ics-Pipeline @ Vogel Vallij					1958-02-01	1982-06-01			
	G1H070	Cape Town Pipeline @ Vogel Vallij					1971-02-01				
	G1H067	Vier-En-Twintig-Riv. Inlet Canal @ Doorn Boom					1972-05-04				
G1R002	Wemmers River @ Winterhoek				33:49:58	19:04:56	G10B	87	Wemmershoek Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	53.34	296.70	296.00	59.74	59.90		1957-05-03	Original			
	53.34	296.70	296.00	58.71	58.80		1984-10-01	Basin survey			
Components								Component Period			
	G1E001	Wellington					1957-05-03	1957-09-06			
	G1E003	Zachariashoek @ Wemmershoek Dam					1957-09-07				
	G1H072	Compensation Pipeline @ Winterhoek					1957-10-01	1991-09-01			
	G1H071	Pipeline from Wemmershoek Dam @ Winterhoek					1957-11-01	1992-08-31			
G1R003	Berg River @ Miverstand				33:01:29	18:47:20	G10J	3972	Miverstand Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	3.64	26.13	255.25	6.48	7.82		1977-07-12	Original			
	3.64	26.13	254.61	6.41	7.66		1988-10-01	Basin survey			
	3.64	26.13	250.68	5.68	6.65		2011-03-01	Basin survey			
Data								Data Period			
	10.70	Rainfall (mm.)	Tipping Bucket				2003-04-10	2012-08-28	10% missing		
	100.00	Level (Metres)					1977-07-12	2019-05-29			
	230.09	Level (m)	4 Water Cello				2014-02-13	2014-05-12			
	815.70	Temp (Deg C)	Raw logger data				2004-11-10	2008-06-06	12% missing		
	815.71	Temp (Deg C)	70m/left bank\044	5m/top			2006-06-08	2008-08-05			
	815.72	Temp (Deg C)	50m/left bank\044	3m/top			2006-06-08	2008-08-05			
	815.73	Temp (Deg C)	50m/left bank\044	1m/top			2006-06-14	2008-07-25			
	815.74	Temp (Deg C)	70m/left bank\044	1m/top			2006-06-14	2008-08-05			
	815.75	Temp (Deg C)	70m/left bank\044	3m/top			2006-06-08	2008-08-05			
	815.76	Temp (Deg C)	125m/left bank\044	1m/top			2006-06-14	2009-09-03	28% missing		
	821.70	Conduct. (Specif c)	Raw logger data				2004-11-10	2008-06-06	9% missing		
	821.71	Conduct. (Specif c)	70m/left bank\044	5m/top			2006-06-08	2008-08-05			
	821.72	Conduct. (Specif c)	50m/left bank\044	3m/top			2006-06-08	2008-08-05			
	821.73	Conduct. (Specif c)	50m/left bank\044	1m/top			2006-06-14	2008-08-05			
	821.74	Conduct. (Specif c)	70m/left bank\044	1m/top			2006-06-14	2008-08-05			
	821.75	Conduct. (Specif c)	70m/left bank\044	3m/top			2006-06-08	2008-08-05			



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G1R003	(continued)										
	821.76	Conduct. (Specific)	125m/left	bank\044				2006-06-14	2009-09-03		
Components								Component	Period		
	0041301	Koringberg						1977-07-13	1999-03-01		
	G1E002	Vogel Vallij @ Voelvlei Dam						1977-07-13			
	G1E007	Langebaan @ Langebaan Road						1978-11-17	2005-07-01		
	G1E008	Mi sverstand @ Mi sverstand Dam						1979-03-08	1992-03-01		
	G1H048	Pipeline to Wi thoogte @ Mi sverstand						1986-03-01			
	G1E009	Wi thoogte @ Puri fication Works						1999-03-01			
	0041301A	Koringberg						2005-07-01			
	G1H075	Mi sverstand Dam						2006-07-13			
G1R004	Berg Ri ver @ Skui fraam				33: 54: 31	19: 03: 29	G10A	78	Berg Ri ver Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capaci ty	Gross capaci ty						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	42.00	250.00	536.80	127.05	130.01			2007-07-30	Basin survey		
Data								Data Period			
	100.00	Level (Metres)						2007-08-17	2019-02-05		
	230.09	Level (m)	4 Water Cello					2018-10-11	2019-02-05	1% missing	
Components								Component	Period		
	G1E006	Assegaal bos @ Robertsvlei						2007-08-17			
	G1H077	Berg @ Berg River Dam (W-Component)						2008-05-28			
G2R001	Jonkershoek Ri ver @ Jonkershoek				33: 58: 29	18: 56: 34	G22F	30	Kl ei npl aas Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capaci ty	Gross capaci ty						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	11.00	267.00	7.60	0.36	0.36			1982-06-03	Basin survey		
	10.95	267.04	6.94	0.29	0.29			1992-10-01	Basin survey		
Data								Data Period			
	100.00	Level (Metres)						1983-01-14	2019-02-26	13% missing	
	127.00	Level Over Spill (m)						2002-08-15	2019-02-26	1% missing	
	127.70	Level Over Spill (m)						2008-10-30	2019-02-26	10% missing	
	127.90	Level Over Spill (m)						2009-05-28	2019-02-26	37% missing	
Components								Component	Period		
	G2H005	Jonkershoek @ Jonkershoek						1983-01-14			
	G2H027	KWV/Experimental - Farm Pipeline @ Nietgegend						1983-01-14	1992-01-01		
	G2H034	Pipeline to Capetown from Tunnel @ Nietgegend						1983-01-14			
	G2H036	Paradyskloof Pipeline @ Nietgegend						1983-11-01	1984-05-01		
	G2H031	Jonkershoek Tunnel Outlet (Valve 1) @ Jonkershoek						1984-03-01			
	G2H032	Jonkershoek Tunnel Outlet (Valve 2) @ Jonkershoek						1984-03-01			
	G2H033	Jonkershoek Tunnel Outlet (Valve 3) @ Jonkershoek						1984-03-01			
	G2E013	Jonkershoek @ Manor House						1984-05-01			
	G2H035	Stellenbosch/KWV Pipeline from Tun. @ Nietgegend						1984-05-01			



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G3R001	Verl orevl ei pan @ Bonteheuvel				32: 19: 03	18: 23: 51	G30E	0			
Data	100.00	Level	(Metres)					Data Period 1994-03-16 2010-01-06	2% missi ng		
G3R002	Wadri ftsoutpan @ El andsbaai				32: 12: 15	18: 19: 56	G30F	0			
Data	100.00	Level	(Metres)					Data Period 1999-04-22 2017-07-04			
G4R001	Steenbras Ri ver @ Kogel Baai				34: 11: 13	18: 51: 09	G40A	67	Steenbras Dam-Lower		
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capaci ty (mill m**3)	Gross capaci ty (mill m**3)						
	9.14	332.23	93.61	2.96	2.96			1921-10-01	Ori gi nal		
	9.75	332.84	101.43	3.56	3.56			1924-09-01	Rai sed		
	21.41	344.50	329.16	27.19	27.19			1927-10-01	Rai sed		
	23.39	346.48	390.40	34.23	34.23			1954-10-01	Rai sed		
	23.39	346.48	370.50	36.09	36.13			1979-10-01	Basin survey		
	23.39	346.04	364.20	33.88	33.90			1992-10-01	Basin survey		
Data	100.00	Level	(Metres)					Data Period 1989-01-01 2019-03-31	8% missi ng		
Components								Component Period			
	0005611	STEENBRAS DAM						1924-11-01	1950-01-01		
	G4H028	Pipeline from Steenbras Dam (Lower) @ Kogel Baai						1924-11-01	1991-08-31		
	0005611A	STEENBRAS 1						1950-01-01	1957-09-01		
	G4E001	Kogel Baai @ Steenbrasdam-Lower						1989-01-01			
G4R007	Steenbras Ri ver @ Steenbras Ri ver				34: 10: 05	18: 54: 06	G40A	30	Steenbras Dam-Upper		
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capaci ty (mill m**3)	Gross capaci ty (mill m**3)						
	25.00	370.00	275.00	31.81	32.48			1988-03-01	Ori gi nal		
	25.00	370.00	275.00	31.81	32.48			1988-10-01	Basin survey		
Data	100.00	Level	(Metres)					Data Period 1993-07-01 2019-03-31	1% missi ng		
Components								Component Period			
	G4H023	Rockvi ew-Steenbras Inflow Canal @ Rock Vi ew						1988-03-01			



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Berg River Dam	G1R004	4
Bulshoek Dam	E1R001	1
Clanwilliam Dam	E1R002	1
Karee Dam	E4R001	2
Kleinplaas Dam	G2R001	4
Misverstand Dam	G1R003	3
Steenbras Dam-Lower	G4R001	5
Steenbras Dam-Upper	G4R007	5
Verlorevlei	G3R001	5
Voelvllei Dam	G1R001	2
Wadri ftsoutpan	G3R002	5
Wemmershoek Dam	G1R002	3