

Department of Water and Sanitation

SAFPUB V02 Output 20/04/2025

Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	1
W5R001	Mpama River @ Glen Eland				26:39:19	30:29:02	W53B	218	Jericho Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	13.94	1466.41	990.10	59.93	60.96		1966-04-13		Original		
	13.94	1466.41	989.40	59.26	59.94		1979-10-01		Basin survey		
	13.94	1466.41	989.40	59.27	59.93		1983-10-01		Basin survey		
	13.94	1466.41	992.81	58.90	59.34		2023-10-01		Basin survey		
Data							Data Period				
	100.00	Level (Metres)					1966-04-13	2025-01-23	1% missing		
	230.09	Level (m)	Cello primary hg				2013-07-09	2016-09-01			
	360.00	E01: Res inflow (Ml)					1966-04-15	2010-08-30	11% missing		
Components							Component Period				
	0443730	Scheepersvlei					1966-04-13	1968-04-07			
	W5E001	Piet Retief					1966-04-13	1968-04-30			
	W5H034	Mpama River @ Glen Eland					1966-04-13				
	W5R001	Mpama River @ Glen Eland					1966-04-13				
	W5H035	Main Pipeline to Camden (Eskom) @ Glen Eland					1966-09-01				
	W5H037	Pipeline to Jericho Dam @ Westoe					1968-02-01				
	W5E004	Jericho @ Jericho Dam					1968-04-08				
	W5H042	Pipeline Morgenstond Jericho Dam @ Impama					1985-04-29				
W5R002	Usutu River @ Newstead				26:30:21	30:37:32	W54B	531	Westoe Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	12.65	1546.86	480.69	32.31	33.78		1968-11-27		Original		
	17.22	1551.43	731.93	59.80	61.28		1973-11-27		Gates installed		
	17.26	1551.47	734.82	60.09	61.53		1979-10-01		Basin survey		
	17.26	1551.47	734.82	60.07	61.38		1996-10-01		Basin survey		
	17.26	1551.47	735.55	60.10	61.44		2015-03-01		Basin survey		
Data							Data Period				
	100.00	Level (Metres)					1968-11-27	2025-01-22			
	230.09	Level (m)	Cello primary hg				2013-01-01	2016-08-31			
Components							Component Period				
	W5E004	Jericho @ Jericho Dam					1968-11-27	1969-04-30			
	W5H037	Pipeline to Jericho Dam @ Westoe					1968-11-27				
	W5H040	Irrigation Pipeline @ Westoe					1968-11-27				
	W5H036	Usutu River @ Newstead					1969-03-05				
	W5E005	Westoe @ Westoe Dam					1969-05-01				
	W5H029	Churchill-Westoe Canal @ Churchill					1985-10-23				



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	2
W5R003	Ngwempisi River @ Imbama				26:42:40	30:32:39	W53A	548	Morgenstond Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	18.89	1377.04	619.28	45.53	46.43		1977-11-30		Original		
	18.89	1377.04	619.28	45.26	45.92		1979-10-01		Basin survey		
	25.86	1384.01	980.33	100.73	101.39		1991-01-01		Gates installed		
	25.86	1384.01	978.91	100.31	100.93		1996-10-01		Basin survey		
	25.86	1384.01	981.58	99.99	100.59		2015-03-01		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				1978-09-18	2025-01-31			
	360.00	E01: Res inflow	(Ml)				1979-10-03	2011-03-21	2% missing		
Components							Component Period				
	W5E004	Jericho @ Jericho	Dam				1977-11-30	1981-05-31			
	W5H038	Ngwempisi River @ Impama					1978-08-31				
	W5R003	Ngwempisi River @ Imbama					1978-09-18				
	W5H042	Pipeline Morgenstond Jericho Dam @ Impama					1980-04-01				
	W5E008	Morgenstond @ Morgenstond	Dam				1981-06-01				
W5R004	Assegaa River @ Sobbeken				26:59:51	30:31:29	W51B	1120	Heyshope Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	20.63	1303.00	4971.42	449.84	452.21		1985-12-17		Original		
	20.63	1303.00	4971.42	449.83	452.20		1990-12-01		Basin survey		
	20.63	1303.00	4970.73	444.94	447.06		2011-01-01		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				1985-12-17	2024-10-02			
	230.09	Level	(m)	Cello primary hg			2012-12-15	2016-08-30	37% missing		
Components							Component Period				
	W5E008	Morgenstond @ Morgenstond	Dam				1984-07-02	1986-01-31			
	W5H039	Assegaa River @ Sobbeken					1984-07-02				
	W5H027	Heyshope Canal @ Drieapan					1985-10-01				
	W5H028	Geelhoutboom Canal @ Geelhoutboom					1985-12-17				
	W5R004	Assegaa River @ Sobbeken					1985-12-17				
	W5E009	Sobbeken @ Heyshope	Dam				1986-02-01				
X1R001	Komati River @ Nootitgedacht				25:56:50	30:04:52	X11C	1585	Nootitgedacht Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	25.91	1528.55	761.41	79.84	80.06		1960-10-01		Basin survey		
	27.88	1528.55	761.41	79.84	80.06		1979-02-23				
	27.88	1528.55	761.40	79.16	79.31		1979-09-01		Basin survey		
	27.88	1528.55	761.40	78.74	78.82		1983-07-01		Basin survey		
	27.88	1528.55	761.42	78.32	78.39		1995-08-01		Basin survey		
	27.88	1528.55	760.42	78.34	78.41		2015-01-01		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				1960-11-05	2024-12-11			



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Station						Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	3
X1R001	(continued)											
	215.00	Tot Gates'	Vol(Ml)	Gate Discharge	Volume				1964-09-30	1981-10-01		
	230.01	Level (m)		East Coast					2008-08-01	2017-07-20	61% missing	
Components									Component	Period		
	0512235								1960-10-01	1961-07-31		
	0517147	Nooitgedacht Dam - Irr							1960-11-06			
	X1H031	Escom Pipeline(Left) @ Nooitgedacht							1961-02-14	1993-07-22		
	X1H032	Escom Pipeline (Right) @ Nooitgedacht							1961-02-14	1993-06-30		
	X1H033	Komati River @ Nooitgedacht							1961-02-14			
	X1E003	Nooitgedacht @ Nooitgedacht Dam							1961-08-01			
	X1H038	Pipeline to Winter-Hoek Pump Station @ Nooitgedacht							1993-06-30			
	X1H037	Pipeline from Nooitgedacht Dam @ Nooitgedacht							1993-07-01			
	X1H044	Pipeline from Dam @ Winterhoek Pumpst. Nooitgedacht							1993-07-01			
	X1H045	Pipeline from Dam @ Nooitgedacht pumpst Nooitgedacht							1993-07-01			
X1R002	Shiyalongubo River @ Duurstede					25:45:38	31:16:05	X14B	36	Shiyalongubo Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	12.19	970.71	0.00	0.00	0.00				1961-11-07			
Components									Component	Period		
	X1E004	Duurstede @ Shiyalongubo Dam							1963-08-01	1968-05-11		
X1R003	Komati River @ Vygeboom					25:52:56	30:37:09	X11H	3127	Vygeboom Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	20.72	1057.58	670.73	79.43	85.73				1971-12-01	Basin survey		
	20.72	1057.58	668.03	79.00	85.26				1979-09-01	Basin survey		
	20.72	1057.58	670.89	77.93	83.50				1983-07-01	Basin survey		
	20.72	1057.58	669.55	77.84	83.36				1999-12-01	Basin survey		
	20.72	1057.58	666.79	78.02	83.47				2015-02-01	Basin survey		
Data									Data	Period		
	100.00	Level (Metres)							1971-12-01	2024-12-10		
	230.01	Level (m)	East Coast						2009-01-27	2017-07-20	68% missing	
Components									Component	Period		
	X1E006	Vygeboom @ Vygeboom Dam							1971-10-20			
	X1H034	Schoemans Canal (Left) @ Vygeboom							1971-10-20			
	X1H035	Bosloop Reservoir Pipeline @ Vygeboom							1971-10-20			
	X1H036	Komati River @ Vygeboom							1972-05-14			
X1R004	Lomati River @ Schoemansdal					25:42:45	31:31:49	X14G	902	Driekoppies Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	28.50	328.50	1870.00	250.92	251.00				1997-12-17	Basin survey		



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Station						Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	4
X1R004	(continued)											
Data									Data Period			
	100.00	Level	(Metres)						1997-12-17	2024-12-05		
	230.09	Level	(m)	Cello primary hg					2011-05-12	2024-08-07	97% missing	
X2R001	Wit River @ Klipkopje					25:16:47	31:00:04	X22G	106	Longmere Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	10.63	919.68	93.86	4.35	4.43			1942-03-26	Basin	survey		
	10.63	919.68	93.35	4.19	4.23			1979-10-02	Basin	survey		
	10.63	919.71	94.00	4.20	4.24			1990-10-01	Basin	survey		
Data									Data Period			
	100.00	Level	(Metres)						1942-04-01	2024-12-03	2% missing	
Components									Component Period			
	X2H065	Wit River @ Klipkopje							1942-03-26			
	X2H073	Left Canal from Wit River @ Klipkopje							1945-03-05	1952-04-13		
	0555794	Bultfontein - Bos							1959-10-21	1973-05-31		
	X2E001	Nelspruit							1959-10-21	1973-04-30		
	X2E011	Friedenheim @ Nelspruit							1973-05-01	1993-02-28		
	X2E012	Primkop @ Primkop Dam							1993-03-01			
X2R002	Wit River @ Klipkopje					25:13:13	31:00:27	X22G	76	Klipkopjes Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	10.67	942.21	233.50	12.16	12.56			1959-10-21	Basin	survey		
	10.67	942.21	233.50	11.87	12.19			1979-10-01	Basin	survey		
	10.67	942.21	233.50	11.78	12.05			1990-10-01	Basin	survey		
Data									Data Period			
	100.00	Level	(Metres)						1959-10-21	2024-12-03		
Components									Component Period			
	0555794	Bultfontein - Bos							1959-10-21	1973-04-30		
	X2E001	Nelspruit							1959-10-21	1973-05-31		
	X2H066	Wit River @ Klipkopje							1970-02-23			
	X2E011	Friedenheim @ Nelspruit							1973-06-01	1993-02-28		
	X2E012	Primkop @ Primkop Dam							1993-03-01			
X2R003	Sand River @ Witklip Forest Res.					25:14:11	30:53:59	X22E	64	Witklip Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	13.72	1006.92	188.11	12.80	12.97			1969-05-01	Basin	survey		
	13.72	1006.92	188.31	12.60	12.73			1979-08-01	Basin	survey		
	13.72	1006.92	187.80	12.40	12.52			1990-09-01	Basin	survey		
	13.72	1006.92	187.52	12.52	12.64			2002-06-01	Basin	survey		



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Station						Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	5
X2R003	(continued)											
Data						Data Period						
	100.00	Level	(Metres)			1969-05-01	2025-02-19					
	230.01	Level	(m)	East Coast		2010-07-02	2017-07-20			71% missing		
Components						Component Period						
	X3E002	Burgershall @ Research Station				1969-05-01	1970-04-30					
	X2H068	Sand River @ Witklip Forest Res.				1969-11-27						
	X2H067	Left Canal from Dam @ Witklip Forest Res.				1970-05-06						
	X2E010	Witklip Forest Res @ Witklip Dam				1970-06-01						
	X2H069	Right Pipeline from Dam @ Witklip Forest Res.				1977-07-27						
X2R004	Wit River @ Primkop					25:23:08	31:04:16	X22H	262	Primkop Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	10.50	728.90	41.50	2.09	2.21	1970-10-22	Basin survey					
	10.50	728.90	41.50	2.09	2.21	1971-03-01	Basin survey					
	10.50	728.90	41.30	2.02	2.09	1979-10-01	Basin survey					
	10.50	728.90	40.70	1.96	2.02	1987-10-01	Basin survey					
	10.50	728.90	40.70	1.90	1.93	1999-10-01	Basin survey					
Data						Data Period						
	100.00	Level	(Metres)			1970-10-22	2024-12-03			1% missing		
	149.00	Combined	(cumeecs)			1981-04-24	1998-10-03			2% missing		
Components						Component Period						
	X2E010	Witklip Forest Res @ Witklip Dam				1971-03-01	1973-09-30					
	0556020	White River - Mun				1973-10-01						
	X2E012	Primkop @ Primkop Dam				1973-10-01						
X2R005	Krokodil River @ Badfontein					25:21:37	30:23:12	X21C	954	Kwena Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	36.50	1183.00	1252.07	159.62	159.77	1983-12-01	Basin survey					
	36.50	1183.00	1252.05	158.98	159.02	1999-10-01	Basin survey					
	36.50	1183.00	1252.04	158.65	158.66	2018-02-01	Basin survey					
Data						Data Period						
	100.00	Level	(Metres)			1985-12-12	2025-02-06					
	230.01	Level	(m)	East Coast		2008-01-16	2011-04-13					
	230.03	Level	(m)	ProDesign GPRS		2007-03-23	2007-05-18					
Components						Component Period						
	X2E013	Elandspruit @ Kwena Dam				1983-09-22						
	X2H070	Krokodil River @ Badfontein				1983-09-22						
X3R001	White Waters River @ Etna					25:08:31	31:01:15	X31H	61	Da Gama Dam		



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Station						Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	6
X3R001 (continued)												
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	20.42	873.26	130.00	13.73	13.88			1972-07-26	Basin	survey		
	20.42	873.26	129.80	13.59	13.65			1979-10-01	Basin	survey		
	20.42	873.26	130.00	13.47	13.52			1990-10-01	Basin	survey		
	20.42	873.26	128.89	13.53	13.58			2002-10-01	Basin	survey		
Data								Data Period				
	100.00	Level	(Metres)					1972-07-26	2025-01-30	1% missing		
	230.09	Level	(m)	Cello primary hg				2010-06-23	2011-05-20	25% missing		
Components								Component Period				
	X3H020	White Waters River @ Etna						1973-01-27				
	X3E004	Etna @ Da Gama Dam						1973-05-01				
	X3H019	Right Canal from Dam @ Etna						1977-07-01				
X3R002 Marite River @ Inyaka						24:53:06	31:05:05	X31E	211	Inyaka Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	34.89	768.60	795.00	121.18	125.35			2002-04-15	Basin	survey		
	34.89	768.60	811.10	123.66	125.03			2002-10-01	Basin	survey		
Data								Data Period				
	100.00	Level	(Metres)					2002-05-16	2025-01-31	1% missing		
	230.01	Level	(m)	East Coast				2010-07-06	2016-10-28	85% missing		
	230.04	Level	(m)	HYDRAS 3				2005-05-26	2010-03-16	15% missing		
	230.09	Level	(m)	Cello primary hg				2016-06-15	2024-05-08	24% missing		



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Da Gama Dam	X3R001	5
Driekoppies Dam	X1R004	3
Heyshope Dam	W5R004	2
Inyaka Dam	X3R002	6
Jericho Dam	W5R001	1
Klipkopjes Dam	X2R002	4
Kwena Dam	X2R005	5
Longmere Dam	X2R001	4
Morgenstond Dam	W5R003	2
Nooitgedacht Dam	X1R001	2
Primkop Dam	X2R004	5
Shiyalongubo Dam	X1R002	3
Vygeboom Dam	X1R003	3
Westoe Dam	W5R002	1
Witklip Dam	X2R003	4