

Department of Water and Sanitation

SAFPUB V02 Output 15/11/2020

Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
W5R001	Mpama River @ Glen El and				26: 39: 19	30: 29: 02	W53B	218	Jericho Dam	1
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	
Data					Data Period					
	100.00	Level (Metres)			1966-04-13		2020-09-29		1% missing	
	230.09	Level (m)	4 Water Cello		2013-07-09		2016-09-01			
	360.00	E01: Res inflow (MI)			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 El and			1966-04-13					
	W5R001	Mpama River @ Glen El and			1966-04-13					
	W5H035	Main Pipeline to Camden (Eskom) @ Glen El and			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 (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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		2020-09-30			
	230.09	Level (m)	4 Water Cello		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					
W5R003	Ngwempisi River @ Imbama				26: 42: 40	30: 32: 39	W53A	548	Morgenstond Dam	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
W5R003	(continued)									
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	2020-09-30	2% missing	
	360.00	E01: Res inflow (MI)					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 @ Impama					1978-09-18			
	W5H042	Pipeline Morgenstond Jericho Dam @ Impama					1980-04-01			
	W5E008	Morgenstond @ Morgenstond Dam					1981-06-01			
W5R004	Assegaai River @ Sobbeken					26:59:51	30:31:29	W51B	1120	Heyshope Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	2020-10-01		
	230.09	Level (m)	4 Water Cello				2012-12-15	2016-08-30	37% missing	
Components							Component Period			
	W5E008	Morgenstond @ Morgenstond Dam					1984-07-02	1986-01-31		
	W5H039	Assegaai River @ Sobbeken					1984-07-02			
	W5H027	Heyshope Canal @ Driepan					1985-10-01			
	W5H028	Geelhoutboom Canal @ Geelhoutboom					1985-12-17			
	W5R004	Assegaai River @ Sobbeken					1985-12-17			
	W5E009	Sobbeken @ Heyshope Dam					1986-02-01			
X1R001	Komati River @ Nooitgedacht					25:56:50	30:04:52	X11C	1585	Nooitgedacht Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	



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Station	Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
X1R001 (continued)						3
Data				Data Period		
100.00 Level (Metres)				1960-11-05	2019-10-24	
215.00 Tot Gates' Vol (MI)		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	25: 45: 38	31: 16: 05	X14B	36	Shiyal ongubo Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)	
	12.19	970.71	0.00	0.00	0.00	1961-11-07
Components						Component Period
X1E004		Duurstede @ Shiyal ongubo Dam				1963-08-01 1968-05-11
X1R003	25: 52: 56	30: 37: 09	X11H	3127	Vygeboom Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	2019-10-23	
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	25: 42: 45	31: 31: 49	X14G	902	Dri ekoppies Dam	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
X1R004	(continued)									
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	28.50	328.50	1870.00	250.92	251.00			1997-12-17	Basin survey	
Data	100.00 230.09	Level Level (m)	(Metres)	4 Water Cello				Data Period 1997-12-17 2011-05-12	2019-10-22 2016-09-21	94% missing
X2R001	Wit River @ Klipkopje									
					25:16:47	31:00:04	X22G	106	Longmere Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	10.63 10.63 10.63	919.68 919.68 919.71	93.86 93.35 94.00	4.35 4.19 4.20	4.43 4.23 4.24			1942-03-26 1979-10-02 1990-10-01	Basin survey Basin survey Basin survey	
Data	100.00	Level	(Metres)					Data Period 1942-04-01	2020-01-23	1% 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 (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	10.67 10.67 10.67	942.21 942.21 942.21	233.50 233.50 233.50	12.16 11.87 11.78	12.56 12.19 12.05			1959-10-21 1979-10-01 1990-10-01	Basin survey Basin survey Basin survey	
Data	100.00	Level	(Metres)					Data Period 1959-10-21	2020-01-23	
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	



Station	Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page
X2R003 (continued)						5
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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
Data	100.00 230.01	Level Level (m)	(Metres) East Coast			Data Period 1969-05-01 2020-01-23 2010-07-02 2017-07-20 71% missing
Components	X3E002 X2H068 X2H067 X2E010 X2H069	Burgershall @ Research Station Sand River @ Witklip Forest Res. Left Canal from Dam @ Witklip Forest Res. Witklip Forest Res @ Witklip Dam Right Pipeline from Dam @ Witklip Forest Res.				Component Period 1969-05-01 1970-04-30 1969-11-27 1970-05-06 1970-06-01 1977-07-27
X2R004 Wit River @ Primkop	25:23:08	31:04:16	X22H	262	Primkop Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	100.00 149.00	Level Combined	(Metres) (cumecs)			Data Period 1970-10-22 2020-01-24 1981-04-24 1998-10-03 1% missing 2% missing
Components	X2E010 0556020 X2E012	Witklip Forest Res @ Witklip Dam White River - Mun Primkop @ Primkop Dam				Component Period 1971-03-01 1973-09-30 1973-10-01 1973-10-01
X2R005 Krokodil River @ Badfontein	25:21:37	30:23:12	X21C	954	Kwena Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (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	100.00 230.01 230.03	Level Level (m) Level (m)	(Metres) East Coast ProDesign GPRS			Data Period 1985-12-12 2019-10-24 2008-01-16 2011-04-13 2007-03-23 2007-05-18



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	6
X2R005	(continued)										
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		
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	2020-01-29	1% missing	
	230.09	Level	(m)	4 Water Cello				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	Mari te 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	2019-10-30	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	



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