

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
C1R001 Vaal River @ Knoppiesfontein	26:52:56	28:06:58	C12L	38600	Vaal Dam		
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)		
	15.24	1477.34	16303.02	1071.68	1086.82	1936-10-01	Original
	15.24	1477.34	15688.31	1006.81	1018.90	1945-10-01	Basin survey
	18.29	1480.39	22246.74	1581.23	1593.32	1954-10-01	Raised
	21.34	1483.44	29532.23	2372.57	2384.66	1956-02-01	Gates installed
	21.34	1483.44	29631.40	2309.27	2317.62	1977-10-01	Basin survey
	21.34	1483.44	29679.99	2256.27	2262.62	1982-10-01	Basin survey
	22.46	1484.56	32275.50	2603.45	2609.80	1986-12-01	Gates installed
	22.52	1484.56	32275.50	2603.45	2609.80	1992-06-29	Adjusted
	22.52	1484.56	32249.42	2560.97	2567.50	2022-10-01	Basin survey
Data						Data Period	
	10.50	Rainfall (mm.)	MeteoSat (realtime)			2005-07-01	2008-07-16 56% missing
	10.51	Rainfall (mm.)	ProDesign GPRS realtime			2005-06-29	2010-05-19 46% missing
	10.52	Rainfall (mm.)	Radio (realtime)			2007-06-01	2009-11-19 23% missing
	100.00	Level (Metres)				1936-10-25	2025-01-31
	149.00	Combined (cumeecs)				1983-08-17	1989-10-18
	194.00	Supply Flow (l/s)				1983-06-27	1983-10-09
	215.00	Tot Gates' Vol(Ml)	Gate Discharge Volume			1975-01-31	2025-03-01 26% missing
	230.00	Level (m)	MeteoSat			2005-07-01	2006-02-22 30% missing
	230.03	Level (m)	ProDesign GPRS			2005-06-30	2010-05-19 45% missing
	230.06	Level (m)	Daily			2006-03-01	2007-06-06 23% missing
	230.07	Level (m)	Radio			2007-06-01	2009-11-19 33% missing
	230.09	Level (m)	Cello primary hg			2009-10-31	2021-08-25 54% missing
	2351.70	Oxygen Concentration				2008-05-26	2008-06-15
	375.00	G22: Tot riv rel (Ml)				2010-10-01	2017-09-27
	7004.70	Total Chlorophyll (M)				2008-05-26	2008-06-15
	815.70	Temp (Deg C)	Raw logger data			2008-05-26	2008-06-15
	822.70	Conduct. (Specific)	Raw Logger data			2008-05-26	2008-06-15
	860.70	pH	Raw Logger data			2008-05-26	2008-06-15
Components						Component Period	
0439389	Oranjeville					1936-10-01	1938-06-30
C2E001	Vaalplaats @ Vaal River Barrage					1936-10-01	1938-06-30
C1R001	Vaal River @ Knoppiesfontein					1936-10-25	
C2H003	Vaal River @ Elandsfontein					1936-10-25	1981-01-19
C1E001	Deneysville @ Vaal Dam					1938-07-01	
C1H025	Pipeline from Vaal Dam (Rwr - Little) @ Vaalbank					1966-10-26	
C1H023	Pipeline from Dam to Grootvlei Powerst. @ Koppiesfon					1969-10-31	
C1H013	Vaal Dam Treatment Works @ Deneysville					1979-10-31	
C2H122	Vaal River @ Annie's Rust					1981-01-20	
C1R001	Vaal River @ Knoppiesfontein					1983-06-28	1983-10-09
C1H024	Pipeline from Vaal Dam (Rwr - Great) @ Vaalbank					1983-08-18	



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	2
C1R002	Vaal River @ Grootdraai Nu Tours				26:55:07	29:17:41	C11L	7982	Grootdraai Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	19.00	1540.95	1892.49	137.53	139.25		1978-12-22		Original		
	27.01	1548.96	3899.00	362.98	364.70		1982-10-01		Basin survey		
	27.01	1548.96	3882.30	354.71	356.02		1991-10-01		Basin survey		
	27.01	1548.96	3883.33	349.53	350.33		2007-09-01		Basin survey		
Data							Data Period				
	10.50	Rainfall	(mm.)	MeteoSat	(realtime)		2005-06-28	2007-06-06	23% missing		
	10.51	Rainfall	(mm.)	ProDesign	GPRS realtime		2009-03-15	2010-05-19	10% missing		
	10.52	Rainfall	(mm.)	Radio	(realtime)		2007-05-31	2009-08-11	33% missing		
	100.00	Level	(Metres)				1978-12-22	2025-01-07			
	230.00	Level	(m)	MeteoSat			2005-06-29	2006-02-23	21% missing		
	230.03	Level	(m)	ProDesign	GPRS		2009-03-18	2010-05-19	6% missing		
	230.06	Level	(m)	Daily			2006-03-01	2007-06-06	15% missing		
	230.07	Level	(m)	Radio			2007-05-31	2009-08-11	26% missing		
	230.09	Level	(m)	Cello	primary hg		2009-10-31	2019-08-12	56% missing		
Components							Component Period				
	C1E003	Standerton					1978-12-22	1980-09-30			
	C1H001	Vaal River @ Langverwyl					1978-12-22	1979-10-26			
	C1H022	Sasol 2 Pipeline @ Riversdale					1978-12-22				
	C1H020	Sasol 2 Canal @ Vlakfontein					1979-04-18				
	C1H019	Vaal River @ Langverwyl					1979-10-23				
	C1E007	Riversdale @ Grootdraai Dam					1980-10-01				
	C1R002	Vaal River @ Grootdraai Nu Tours					1983-06-28	1983-10-01			
	C1H021	Tutuka Pipeline @ Riversdale					1984-01-01				
C1R003	Tributary of Vaal River @ Willem Brummer Dam				26:28:25	29:55:17	C11F	143	Willem Brummer Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	8.50	1667.00	224.35	6.18	6.18		2013-01-31		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				2013-07-11	2018-03-13	3% missing		
	230.09	Level	(m)	Cello	primary hg		2013-01-31	2016-04-20	1% missing		
C1R004	Tributary of Vaal River @ Douglas Dam				26:28:19	29:56:28	C11F	54	Douglas Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	5.80	1686.02	59.29	1.74	1.74		2013-01-31		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				2013-07-11	2018-03-13	11% missing		
	230.09	Level	(m)	Cello	primary hg		2013-02-10	2017-03-22	1% missing		
C2R001	Mooi River @ Naauwpoort				26:33:42	27:06:41	C23G	3480	Boskop Dam		



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	3
C2R001	(continued)										
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	12.17	1386.92	377.40	20.86	21.25		1958-01-17		Original		
	12.16	1386.92	377.40	20.86	21.25		1979-10-01		A01 - New plates installed		
	12.16	1386.92	376.90	20.56	20.85		1981-10-01		Basin survey		
	12.16	1386.92	374.10	21.03	21.26		1998-10-01		Basin survey		
	12.16	1386.92	373.41	19.96	20.11		2018-10-01		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				1958-01-17	2025-01-24			
Components							Component Period				
	0437100	Potchefstroom	- Rsv				1958-01-17				
	0437157	Koloniesplaas					1958-01-17	1958-10-31			
	C2E004	Potchefstroom					1958-01-17				
	C2H110	Left Principal Canal from Boskop Dam @ Naauwpoort					1958-01-17				
	C2R001	Mooi River @ Naauwpoort					1958-01-17				
	C2H089	Bezuïdenhout Canal @ Boskopdam					1958-05-01	1965-07-31			
	C2E006	Buffelsvlei @ Boskop Dam					1958-11-01	1968-11-28			
	C2H111	Left Canal from Principal Canal @ Naauwpoort					1968-05-01				
	C2H112	Right Canal from Principal Canal @ Naauwpoort					1968-05-01				
	C2E009	Naauwpoort @ Boskop Dam					1968-11-29				
C2R002	Skoonspruit River @ Wilkoppies				26:49:01	26:36:49	C24G	5644	Johan Naser Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	6.40	1317.45	250.88	4.96	4.96		1922-12-01		Original		
	6.66	1317.71	273.10	5.67	5.67		1977-10-01		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				1922-12-18	1952-02-29	5% missing		
C2R003	Mooi River @ Klerkskraal				26:15:09	27:09:35	C23F	1349	Klerkskraal Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	4.87	1461.11	392.30	8.52	8.67		1969-11-18		Original		
	4.87	1461.11	384.30	8.16	8.25		1982-10-01		Basin survey		
	4.87	1461.11	377.30	7.92	8.02		1999-10-01		Basin survey		
Data							Data Period				
	100.00	Level	(Metres)				1969-11-18	2025-01-23	1% missing		
	230.70	Level	(m)				2014-08-12	2015-04-08			
Components							Component Period				
	0474198	Zamenkomst					1969-11-18	1975-01-31			
	C2E009	Naauwpoort @ Boskop Dam					1969-11-18				
	C2H113	Right Principal Canal from Dam @ Klerkskraal					1969-11-18				
	C2H123	Left Canal from Principal Canal @ Varkenskraal					1969-11-18	1969-12-31			



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	4
C2R003	(continued)										
	C2R003	Mooi River @ Klerkskraal						1969-11-18			
	C2E018	Klerkskraal @ Klerkskraal Dam						1976-07-01			
C2R004	Mooi River @ Potchefstroom				26:40:26	27:05:45	C23H	3854	Potchefstroom Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	6.10	1346.10	76.30	2.18	2.18			1968-06-01	Original		
	6.10	1346.10	77.30	2.03	2.03			1978-10-01	Basin survey		
Data											
	100.00	Level	(Metres)					1968-06-01	2025-01-22		
	230.09	Level (m)		Cello primary hg				2014-10-01	2016-04-20	43% missing	
Components											
	C2E004	Potchefstroom						1968-06-01			
	C2H114	Left Canal from Dam @ Potchefstroom						1968-06-01			
	C2H115	Canal Back to Mooi River @ Potchefstroom						1968-06-01			
C2R005	Loopspruit River @ Klipdrift				26:36:59	27:17:50	C23J	885	Klipdrift Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	4.87	1368.35	472.00	13.97	14.20			1971-12-01	Original		
	4.87	1368.35	471.30	13.49	13.58			1991-10-01	Basin survey		
	4.87	1368.35	474.14	13.30	13.33			2007-10-01	Basin survey		
Data											
	100.00	Level	(Metres)					1971-12-01	2025-01-24		
Components											
	C2E009	Naauwpoort @ Boskop Dam						1971-12-01			
	C2H116	Left Canal from Dam @ Klipdrift						1971-12-01			
	C2H117	Right Canal from Dam @ Klipdrift						1971-12-01			
	C2R005	Loopspruit River @ Klipdrift						1971-12-01			
	C2E015	Klipdrift @ Klipdrift Dam						1976-07-01			
C2R006	Swartleegte River @ Elandskuil				26:20:53	26:46:43	C24E	27	Elandskuil Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	8.19	1438.62	45.20	1.27	1.28			1976-07-28	Original		
	8.19	1438.62	44.90	1.18	1.18			1993-10-01	Basin survey		
Data											
	100.00	Level	(Metres)					1976-07-28	2025-01-30		
Components											
	C2R006	Swartleegte River @ Elandskuil						1976-07-28			
	C2E016	Elandskuil @ Elandskuil Dam						1976-08-04			
	C2H118	Right Canal from Dam @ Elandskuil						1976-10-01			



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	5
C2R007	Rietspruit River @ Klipplaadrf				26:24:41	26:47:41	C24D	365	Rietspruit Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	6.71	1410.27	233.80	7.82	8.06		1976-07-20	Original			
	6.71	1410.27	233.80	7.28	7.28		1988-10-01	Basin survey			
Data							Data Period				
	100.00	Level	(Metres)				1976-07-20	2025-01-23	4% missing		
Components							Component Period				
	C2E017	Klipplaadrf @ Rietspruit Dam					1976-07-20				
	C2R007	Rietspruit River @ Klipplaadrf					1976-07-20				
	C2H119	Left Canal from Dam @ Klipplaadrf					1976-11-01				
C2R008	Vaal River @ Luciana Barrage				26:45:53	27:41:03	C22K	47245	Vaalrivier Barrage		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	7.63	1421.09	0.00	0.00	0.00		1923-07-09	Original			
	7.63	1421.09	1348.50	53.62	55.44		1991-09-01	Basin survey			
Data							Data Period				
	230.70	Level (m)					2014-08-27	2016-02-25	26% missing		
	2351.50	Oxygen Concentration	Realtime	Ubuntu			2014-07-22	2016-01-04	23% missing		
	2351.70	Oxygen Concentration					2013-03-13	2016-02-25	10% missing		
	810.70	Turbidity (NTU)	Raw	Logger data			2013-03-13	2016-02-25	8% missing		
	815.70	Temp (Deg C)	Raw	logger data			2013-09-02	2016-02-25	11% missing		
	820.50	Conductivity (MS/M)	Realtime	- Ubuntu			2014-07-22	2016-01-04	23% missing		
	822.70	Conduct. (Specific)	Raw	Logger data			2013-03-13	2015-11-19	9% missing		
	860.50	pH	Realtime	Ubuntu			2014-07-22	2016-01-04	23% missing		
	860.70	pH	Raw	Logger data			2013-03-13	2016-02-25	9% missing		
Components							Component Period				
	C2E001	Vaalplaats @ Vaal River Barrage					1931-08-01				
C2R009	Alexander Dam				26:12:56	28:25:51	C21D	0	Alexander Dam		
Data							Data Period				
	100.00	Level	(Metres)				2003-11-06	2008-07-23	100% missing		
C2R010	Cowles Dam				26:12:27	28:27:52	C21D	0	Cowles Dam		
Data							Data Period				
	100.00	Level	(Metres)				2004-06-23	2012-01-19	100% missing		
C2R011	Tributary of Blesbokspruit River @ Nigel Dam				26:24:20	28:28:03	C21E	52	Nigel Dam		
Data							Data Period				
	100.00	Level	(Metres)				2003-11-07	2013-09-27			



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	6
C3R001	Harts River @ Rietput				27:10:25	25:20:15	C31E	8980	Wentzel Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	5.18	1296.48	0.00	0.00	0.00		1934-07-01		Original		
	5.18	1296.48	204.04	3.71	3.71		1934-07-04		Basin survey		
	6.48	1297.78	301.49	7.02	7.02		1935-05-01		Raised		
	6.10	1297.40	271.94	5.89	5.89		1959-12-01		Adjusted		
	6.10	1297.40	265.80	5.11	5.11		1978-10-01		Basin survey		
	6.43	1297.73	290.16	5.97	5.97		1984-10-01		Raised		
	6.43	1297.73	299.63	6.58	6.58		1992-10-01		Basin survey		
Data					Data Period						
	100.00	Level (Metres)			1934-07-04		2024-12-05		5% missing		
	230.09	Level (m)	Cello primary hg		2016-08-24		2024-12-05		31% missing		
	815.00	Temp (Deg C)			2007-09-04		2007-11-06				
Components					Component Period						
	0397581	Schweizer-Reneke - Pol			1934-07-04		1984-12-31				
	C3H014	Canal from Schweizer Reneke Dam @ Rietput			1934-08-14						
	C2E003	Makwassie			1963-03-01		1977-12-31				
	C2E012	Vliegkraal			1978-01-01		1982-12-31				
	C3H008	Pipeline from Dam @ (Municipality) Rietput			1979-09-30						
	C9E004	Kalkfontein @ Bloemhof Dam			1983-01-01		1984-12-31				
	C3E013	Schweizer-Reneke @ Schweizer-Renekdam			1985-01-01						
	C3R001	Harts River @ Rietput			2008-03-26						
C3R002	Harts River @ Spitskop				28:07:30	24:30:10	C33B	26730	Spitskop Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	6.31	1043.03	2495.40	61.75	63.43		1975-06-25		Original		
	6.32	1042.56	2508.60	56.65	56.66		1988-10-27		Basin survey		
	6.32	1042.56	2508.60	56.64	56.66		1989-09-20		Lowest outlet changed to 1037.080		
	6.32	1042.56	2531.21	57.83	57.89		2003-10-01		Basin survey		
Data					Data Period						
	100.00	Level (Metres)			1975-06-25		2024-12-03		5% missing		
	194.00	Supply Flow (l/s)			1990-10-10		2006-10-31		13% missing		
	194.01	Supply Flow (l/s)			1993-01-21		2006-10-31		11% missing		
	194.02	Supply Flow (l/s)			1993-01-21		2006-10-31		2% missing		
	230.09	Level (m)	Cello primary hg		2019-06-11		2024-12-03		21% missing		
Components					Component Period						
	0323820	Spitskop			1975-06-25		1977-08-31				
	C3E007	Guldenskat @ Jan Kempdorp			1975-06-25		1977-08-31				
	C3E012	Spitskop @ Spitskop Dam			1977-10-01						
	C3R002	Harts River @ Spitskop			2008-03-26						
C3R003	Babers Pan @ Zandvallei				26:34:05	25:35:55	C31D	1572			
Data					Data Period						
	100.00	Level (Metres)			1930-07-11		2024-09-19		1% missing		



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C3R003 (continued)												
Components								Component	Period			
	C3E003	Zandvallei	@ Baberspan					1979-09-30	1992-12-21			
C3R004 Sout Pan @ Delareyville						26:41:47	25:27:29	C31E	0			
Components								Component	Period			
	C3E009	Delarayville	@ Soutpan					1976-07-01	1977-10-31			
C3R005 Koppiessyn Pan @ Fredericksdal						26:43:17	25:28:29	C31E	0			
Components								Component	Period			
	C3E010	Delarayville	@ Koppiessynpan					1976-07-01	1977-10-31			
C3R006 Harts River @ Taung						27:31:35	24:51:16	C31F	10545	Taung Dam		
FSL Parameters												
	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	25.97	1155.41	459.59	61.37	62.97			1995-06-22	Original			
Data								Data	Period			
	100.00	Level	(Metres)					1995-06-22	2024-12-04	3% missing		
	194.00	Supply Flow	(l/s)					1995-06-22	2006-10-31	1% missing		
	194.01	Supply Flow	(l/s)					1995-06-22	2006-10-31	1% missing		
	230.00	Level	(m)	MeteoSat				2020-05-21	2020-07-15			
	230.09	Level	(m)	Cello primary hg				2017-11-02	2024-12-04	11% missing		
Components								Component	Period			
	C3H017	Harts River	@ Tlapeng					1995-06-22				
	C3R006	Harts River	@ Taung					2008-03-26				
C4R001 Sand River @ Willem Pretorius National Park						28:17:18	27:08:45	C42E	3626	Allemanskraal Dam		
FSL Parameters												
	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity							
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)							
	12.80	1368.74	2673.80	189.19	219.57			1959-01-31	Original			
	12.80	1368.74	2741.00	178.66	186.45			1976-10-01	Basin survey			
	12.80	1368.74	2643.30	176.26	182.74			1981-10-01	Basin survey			
	12.80	1368.74	2648.10	174.20	179.31			1988-04-01	Basin survey			
	12.80	1368.74	2667.30	174.52	178.12			2007-04-01	Basin survey			
	12.80	1368.74	2668.10	172.48	175.74			2022-10-01	Basin survey			
Data								Data	Period			
	100.00	Level	(Metres)					1959-01-31	2024-05-13			
	815.71	Temp	(Deg C)					2017-04-11	2023-02-03			
	815.72	Temp	(Deg C)					2023-02-03	2025-02-14			



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	8
C4R001	(continued)										
Components								Component	Period		
	C4E002	Corannakraal	@ Erfenis Dam					1959-01-31	1961-05-31		
	C4H013	Allemanskraal	Dam River Outlet @ Willem Pretorius					1959-01-31			
	0329380	Patensie						1959-02-01	1961-05-31		
	C4H007	Left Canal from Dam @ W.Pretorius	Nat.Park					1960-09-01			
	C4E008	Pretorius	Nat.Park @ Allemanskraal	Dam				1961-06-01			
	C4H008	Sand River @ W.Pretorius	Nat.Park					1981-05-20			
C4R002	Groot-Vet River @ Corannakraal				28:30:38	26:46:42	C41E	4724	Erfenis Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	30.49	1331.94	3304.49	222.57	235.69		1959-04-01	Original			
	30.49	1331.94	3297.62	210.17	215.15		1986-10-01	Basin survey			
	30.49	1331.94	3292.19	207.72	212.48		1988-04-01	Basin survey			
	30.49	1331.94	3302.05	206.06	209.48		2009-05-01	Basin survey			
Data								Data Period			
	100.00	Level	(Metres)					1959-04-07	2024-12-11		
	815.70	Temp (Deg C)		Raw logger data				2009-03-21	2019-11-23	21% missing	
	815.72	Temp (Deg C)						2023-06-28	2024-11-06		
	815.73	Temp (Deg C)						2023-11-01	2024-12-11		
Components								Component	Period		
	C4H012	Erfenis Dam River Outlet @ Corannakraal						1959-04-07	1971-07-01		
	C4E002	Corannakraal @ Erfenis Dam						1959-04-19			
	C4H009	Left Canal from Erfenis Dam @ Corannakraal						1961-11-01			
	C4H010	Great-Vet River @ Corannakraal						1981-10-27			
C5R001	Tierpoort River @ Tygerpoort				29:25:18	26:08:09	C51D	922	Tierpoort Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	10.06	1382.88	937.70	38.37	38.51		1923-07-01	Original			
	9.95	1382.77	920.88	37.36	37.49		1925-03-01	Temporary fsl			
	10.06	1382.88	937.70	38.37	38.51		1925-08-01	Temporary fsl			
	10.21	1383.03	959.24	39.80	39.93		1938-10-01	Raised			
	9.99	1382.81	926.98	37.73	37.86		1953-10-01	Adjusted			
	9.99	1382.81	912.55	34.66	34.66		1978-10-01	Basin survey			
	8.38	1382.74	902.25	34.00	34.03		1990-03-01	Adjusted			
Data								Data Period			
	100.00	Level	(Metres)					1923-07-01	2024-11-26	3% missing	
	815.71	Temp (Deg C)						2019-02-01	2025-04-03		
	815.72	Temp (Deg C)						2019-05-21	2025-04-03		
Components								Component	Period		
	0261146	Tierpoort-Pol						1923-07-01	1933-10-01		
	C5H042	Left Canal from Tierpoort Dam @ Tygerpoort						1933-01-19			
	C5H043	Right Canal from Tierpoort Dam @ Tygerpoort						1933-01-19			
	C5E001	Tygerpoort @ Tierpoort Dam						1933-10-01	2007-12-01		



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page	9
C5R001	(continued)	0261146 C5E009	Tierpoort-Pol Uitvlugt-West @ Krugersdrift	Dam			2007-12-01 2007-12-01	2098-12-01			
C5R002	Riet River @ Kalkfontein				29:29:44	25:13:18	C51J	10265	Kalkfontein Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	18.96	1229.02	4534.10	348.58	355.52		1938-01-01	Original			
	18.96	1229.02	4533.30	320.15	320.22		1979-10-01	Basin survey			
	18.96	1229.02	4532.30	318.91	318.94		1988-10-01	Basin survey			
	18.96	1229.02	4549.82	325.13	325.13		2000-10-01	Basin survey			
Data							Data Period				
	100.00	Level	(Metres)				1938-01-01	2025-01-16			
	815.71	Temp	(Deg C)				2021-11-16	2025-01-16	16% missing		
	815.72	Temp	(Deg C)				2012-03-20	2024-06-03			
	815.73	Temp	(Deg C)				2011-05-01	2020-05-21	7% missing		
Components							Component Period				
	0229571	Ventersvlei					1938-02-19	1942-02-01			
	C5E002	Kalkfontein @ Kalkfontein	Dam				1938-02-19				
	C5H040	Left Main Canal from Kalkfontein	Dam @ Kalkfontein				1938-02-19				
	C5H049	Riet River @ Philippia					1990-05-09				
	C5H036	Discharge Canal from Principal Canal	@ Kalkfontein				1990-11-01				
	C5H044	Bergfontein Canal from Main Canal	@ Kalkfontein				1990-11-01	1993-04-01			
C5R003	Modder River @ Rustfontein				29:16:15	26:36:56	C52A	937	Rustfontein Dam		
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity						
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)						
	16.76	1373.03	1159.03	75.94	77.68		1954-12-05	Original			
	16.76	1373.03	1161.60	73.88	74.99		1971-10-01	Basin survey			
	16.76	1373.03	1158.10	72.54	72.82		1981-10-01	Basin survey			
	16.76	1373.03	1157.98	72.28	72.42		1988-04-01	Basin survey			
	16.76	1373.03	1158.52	71.21	71.22		2002-10-01	Basin survey			
	16.76	1373.03	1164.60	72.11	72.11		2015-10-01	Basin survey			
Data							Data Period				
	100.00	Level	(Metres)				1954-12-05	2025-01-07			
	149.00	Combined	(cumeecs)				1960-04-16	1983-11-30	1% missing		
	194.00	Supply Flow	(l/s)				1999-01-01	2015-06-30			
	230.09	Level	(m)	Cello primary hg			2016-08-03	2016-09-06			
	815.70	Temp	(Deg C)	Raw logger data			2011-07-14	2025-02-26	17% missing		
	815.71	Temp	(Deg C)				2017-01-24	2025-01-07	34% missing		
	815.73	Temp	(Deg C)				2012-01-01	2013-04-03			
Components							Component Period				
	C5E004	Rustfontein @ Rustfontein	Dam				1954-12-06				
	C5H037	Left Canal from Rustfontein	Dam @ Rustfontein				1955-10-20				
	C5H038	Pipeline from Rustfontein	Dam @ Rustfontein				1984-10-30	1988-07-29			



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 10
C5R004	Modder River @ Bultfontein				28:53:02	25:57:23	C52G	7460	Krugersdrift Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	18.28	1248.13	1890.02	85.74	86.04		1970-11-09	Original		
	18.28	1248.13	1885.79	77.11	77.11		1981-10-01	Basin survey		
	18.28	1248.13	1853.22	73.56	73.56		1988-04-01	Basin survey		
	18.28	1248.13	1863.47	71.48	71.48		2009-12-01	Basin survey		
Data							Data Period			
	100.00	Level (Metres)					1970-11-09	2025-01-09		
	194.00	Supply Flow (l/s)					1999-07-01	2024-11-30		
	194.01	Supply Flow (l/s)					1999-07-01	2024-12-31		
	815.70	Temp (Deg C)	Raw logger data				2008-05-01	2018-08-02	33% missing	
	815.71	Temp (Deg C)					2012-05-03	2024-04-25	16% missing	
	815.72	Temp (Deg C)					2023-08-10	2025-02-25		
Components							Component Period			
	C5E009	Uitvlugt-West @ Krugersdrift Dam					1970-11-10			
	C5H039	Modder River @ Bultfontein					1970-11-25			
C5R005	Kgabanyane River @ Groothoek Thaba Nchu				29:18:09	26:50:51	C52B	116	Groothoek Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	10.27	1494.96	257.90	11.91	13.28		1981-01-01	Basin survey		
	10.27	1494.96	257.90	11.90	13.22		1992-10-01	Basin survey		
Data							Data Period			
	100.00	Level (Metres)					1981-06-05	2025-01-07		
	230.01	Level (m)	East Coast				2016-09-30	2017-04-11	59% missing	
	815.71	Temp (Deg C)					2021-08-01	2025-02-27	19% missing	
	815.72	Temp (Deg C)					2021-11-16	2025-02-27	21% missing	
Components							Component Period			
	C5E004	Rustfontein @ Rustfontein Dam					1981-06-06			
	C5H050	Pipeline to Treatment Works @ Groothoek Dam					1982-02-07			
C5R006	Modder River @ Mazelspoort				29:01:40	26:24:22	C52E	3059	Mazelspoort Dam	
C5R007	Modder River @ Mockes Dam Nat. Res.				29:03:04	26:27:39	C52D	2968	Mockes Dam	
C6R002	Vals River @ Kroonstad				27:42:09	27:18:06	C60D	3160	Serfontein Dam	
C7R001	Renoster River @ Fischer				27:15:25	27:40:19	C70C	2155	Koppies Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	4.88	1406.86	480.80	8.23	8.91		1918-03-01	Original		
	6.10	1408.08	661.92	15.95	16.63		1926-01-01	Raised		
	6.10	1408.08	645.50	11.79	11.79		1932-10-01	Basin survey		



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 11
C7R001	(continued)									
	6.37	1408.35	681.61	13.50	13.50		1948-01-01	Raised		
	6.71	1408.69	727.62	15.89	15.89		1955-10-01	Raised		
	6.71	1408.69	670.87	8.77	8.77		1965-10-01	Basin survey		
	7.07	1409.05	738.53	11.35	11.35		1966-12-01	Raised		
	10.45	1412.43	1349.74	46.58	46.58		1969-10-01	Raised		
	5.94	1412.43	1349.74	46.51	46.58		1969-11-04	Adjusted		
	5.94	1412.43	1364.45	40.59	40.59		1976-10-01	Basin survey		
	5.94	1412.43	1384.80	42.31	42.31		1994-10-01	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				1920-09-01	2024-11-27		
	815.71	Temp	(Deg C)				2023-06-27	2025-02-11		
	815.72	Temp	(Deg C)				2022-11-01	2025-02-13		
	815.73	Temp	(Deg C)				2013-07-23	2019-10-01		
	815.74	Temp	(Deg C)				2022-11-01	2025-02-13		
Components							Component Period			
	C7H007	Right Canal from Koppies Dam @ Fischer					1922-06-01			
	0402166	Doorndraai					1938-07-01	1967-12-01		
	C1E001	Deneysville @ Vaal Dam					1949-10-01	1967-12-01		
	C7E001	Fischer @ Koppies Dam					1967-12-01			
C7R002	Leeuspruit River @ Roodepoort				27:13:30	27:30:58	C70F	83	Roodepoort Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	2.74	1373.75	82.85	1.04	1.04		1959-10-01	Original		
	2.74	1373.75	79.79	0.90	0.90		1978-08-01	Basin survey		
	2.74	1373.75	79.70	0.87	0.87		1992-03-01	Basin survey		
	2.74	1373.75	79.16	0.94	0.94		2017-03-01	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				1959-10-01	1995-09-01	12% missing	
Components							Component Period			
	C7H010	State Canal from Koppies Dam @ Roodepoort					1959-10-01			
	C7H011	Pipeline from Dam @ (Great Pump) Roodepoort					1960-01-04	1962-01-31		
	C7H012	Pipeline from Dam @ (Jonkers Pump) Roodepoort					1960-01-15	1962-01-31		
	C7H008	Left Canal from Dam @ Roodepoort					1979-01-01			
	C7H009	Vredefort Canal (Right) @ Roodepoort					1979-01-01			
C7R003	Leeuspruit River @ Weltevrede				27:13:23	27:34:14	C70F	63	Weltevrede Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	4.41	1396.16	97.87	1.86	1.86		1968-01-01	Original		
	4.41	1396.16	97.47	1.80	1.80		1978-07-01	Basin survey		
	4.45	1396.20	98.66	1.84	1.84		1991-10-01	Basin survey		
	4.45	1396.20	98.12	1.88	1.88		2017-04-01	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				1967-12-22	1994-02-28		



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 12
C7R003	(continued)									
	149.00	Combined	(cumeecs)				1978-07-01	1979-01-01		
Components							Component	Period		
	C7H015	Left Canal from Dam @ Weltevrede					1978-05-01	1994-02-28		
	C7H016	Right Canal from Dam @ Weltevrede					1987-05-01	1994-02-28		
C8R001	Matjiesvlei River @ Menin				28:05:05	28:16:38	C83C	80	Menin Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	6.43	1619.33	41.27	0.76	0.76		1922-01-18	Original		
	6.48	1619.33	41.27	0.76	0.76		1956-11-21	A01 - Adjusted		
	6.71	1619.56	45.45	0.86	0.86		1961-05-27	Raised		
	6.57	1619.42	42.87	0.80	0.80		1972-01-01	Adjusted		
	6.57	1619.42	39.40	0.69	0.69		1978-10-01	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				1922-01-18	1994-01-01	3% missing	
Components							Component	Period		
	0331455	Matjiesvlei					1922-01-18			
	C8E001	Menin @ Menin Dam					1934-02-01	1963-12-31		
	C8E003	Bethlehem					1964-01-01			
C8R002	Metsi-Matsho River @ Metsi-Matsho Dam				28:35:20	28:56:17	C81F	14	Metsi-Matsho Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	18.03	1867.71	66.60	4.38	4.38		1999-10-12	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				2007-03-06	2024-11-13	6% missing	
	815.70	Temp (Deg C)		Raw logger data			2024-07-23	2025-02-27		
C8R003	Nuwejaarspruit River @ Sterkfontein				28:23:13	29:00:56	C81D	195	Sterkfontein Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	58.00	1678.00	0.00	0.00	0.00		1974-11-01	Original		
	58.00	1678.00	4999.10	1196.75	1196.80		1974-11-02	Basin survey		
	82.00	1702.00	6725.70	2616.90	2616.95		1985-06-10	Raised		
Data							Data Period			
	100.00	Level	(Metres)				1974-11-02	2024-11-14		
	815.70	Temp (Deg C)		Raw logger data			2017-10-20	2025-02-26	38% missing	
	815.71	Temp (Deg C)					2023-03-01	2025-02-26		
	815.72	Temp (Deg C)					2024-07-24	2025-02-26		
	815.73	Temp (Deg C)					2024-08-13	2025-02-26		



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 13
C8R003	(continued)									
Components								Component Period		
	C8E008	Willy's Deel @ Sterkfontein	Dam					1974-11-03		
	C8R007	Driekloof Dam @ Driekloof						1978-05-13		
	C8H032	Contact Region For Correct	Data: C8H040 Influences	Data				1978-07-21		
	C8E010	Stratherric @ Sterkfontein	Dam					1992-10-01		
C8R004	Liebenbergsvlei River @ Saulspoort Dam				28:13:01	28:21:47	C83A	743	Saulspoort Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	10.45	1627.28	425.40	18.81	18.89			1971-06-04	Original	
	10.45	1627.28	397.90	16.82	16.82			1989-10-01	Basin survey	
	10.45	1627.28	376.55	16.28	16.28			1999-10-01	Basin survey	
	10.45	1627.28	355.94	15.67	15.67			2004-10-01	Basin survey	
	10.45	1627.28	344.41	15.01	15.01			2018-02-01	Basin survey	
Data								Data Period		
	100.00	Level (Metres)						1971-06-04	2024-09-12	
	815.70	Temp (Deg C)	Raw logger data					2014-01-01	2025-01-24	89% missing
	815.71	Temp (Deg C)						2024-09-12	2025-01-24	
Components								Component Period		
	C8E003	Bethlehem						1971-06-04		
C8R005	Jordaan River @ Wolhuterskop				28:15:01	28:18:31	C83B	251	Loch Athlone	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	8.80	1646.90	0.00	0.00	0.00			1971-06-04	Original	
	8.80	1646.90	186.00	3.33	3.33			1971-11-30	Basin survey	
Data								Data Period		
	100.00	Level (Metres)						1971-11-30	2024-04-25	
	815.70	Temp (Deg C)	Raw logger data					2014-01-21	2023-08-03	91% missing
	815.71	Temp (Deg C)						2023-08-01	2025-01-24	
C8R006	Gerrandspruit River @ Zuid Wolhuterskop				28:16:55	28:17:30	C83B	92	Gerrands Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	8.45	1554.48	50.70	1.35	1.35			1971-06-07	Original	
Data								Data Period		
	100.00	Level (Metres)						1971-06-04	2002-07-17	6% missing
C8R007	Driekloof Dam @ Driekloof				28:30:57	29:03:47	C81D	12	Driekloof Dam	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 14
C8R007	(continued)									
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	0.00	1699.62	189.60	32.27	32.27		1981-05-12	Original		
	0.00	1699.62	189.60	32.17	32.17		1986-10-01	Basin survey		
	0.00	1699.62	190.60	32.07	32.07		2001-10-01	Basin survey		
Data	100.00	Level	(Metres)		Data Period		1981-05-12	2000-12-15		
C8R008	Namahadi River @ Namahadi					28:40:19	28:51:23	C81F	64	Fika-Patso Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	54.99	1855.72	135.58	29.41	29.43		1999-11-03	Original		
Data	100.00	Level	(Metres)		Data Period		1999-11-03	2024-10-23	2% missing	
	815.70	Temp	(Deg C)	Raw logger data			2024-03-12	2025-02-27		
	815.78	Temp	(Deg C)				2020-01-01	2021-11-23		
C9R001	Vaal River @ Schoolplaats					28:06:55	24:55:32	C91B	115520	Vaalharts Weir
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	6.09	1188.97	1653.03	42.98	45.42		1940-08-26	Original		
	7.31	1190.19	2257.45	67.03	69.47		1968-02-01	Gates installed		
	7.31	1190.19	2119.80	48.03	48.04		1979-10-01	Basin survey		
	7.31	1190.19	2118.90	48.92	48.92		1991-03-01	Basin survey		
	7.31	1190.19	2124.31	49.61	49.61		2008-12-01	Basin survey		
	7.31	1190.19	2124.31	50.68	50.73		2011-04-01	Basin survey		
Data	100.00	Level	(Metres)		Data Period		1940-08-26	2024-12-06	1% missing	
	230.09	Level	(m)	Cello primary hg			2019-06-14	2024-12-06	6% missing	
Components						Component Period				
	C9H008	Vaal River @ Schoolplaats					1940-08-26			
	C9H018	Vaalharts Canal (Right) @ Schoolplaats (Vaal)					1940-08-26			
	C9E003	Nazareth @ Vaalharts Sto.Weir					1948-04-01			
	C9H020	Mission Canal (Right) @ Schoolplaats (Vaal)					1957-10-01			
	C9R001	Vaal River @ Schoolplaats					2008-03-26			
C9R002	Vaal River @ Bloemhofdam					27:40:09	25:36:60	C43D	108360	Bloemhof Dam
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	17.99	1228.50	23405.34	1288.33	1288.55		1968-10-01	Original		
	17.99	1228.50	23344.34	1263.26	1263.48		1980-10-01	Basin survey		
	17.99	1228.50	23354.25	1242.91	1242.91		1997-10-01	Basin survey		



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C9R002	(continued)									
	17.99	1228.50	23354.25	1242.91	1242.91		2017-07-01	Basin survey		
Data					Data Period					
	100.00	Level	(Metres)				1968-10-01	2024-12-05		
	215.00	Tot Gates'	Vol(Ml)	Gate Discharge Volume			1968-09-30	1978-04-30	30% missing	
	230.09	Level (m)		Cello primary hg			2017-10-31	2024-12-05	19% missing	
	230.15	Level (m)		Cello backup hg			2023-09-28	2023-11-15		
Components					Component Period					
	C9H006	Vaal River	@ Bloemhof				1968-10-01	1970-03-02		
	C4E003	Hoopstad					1968-10-02	1970-04-01		
	C9H021	Vaal River	@ Port Arlington				1970-03-02			
	C9E004	Kalkfontein	@ Bloemhof Dam				1970-04-01			
	C9R002	Vaal River	@ Bloemhofdam				2008-03-26			
C9R003	Vaal River @ St Claire				29:02:39	23:50:07	C92B	193840	Douglas Weir	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	2.94	990.69	801.86	17.43	18.84	1977-08-16	Original			
	2.83	990.54	781.14	16.24	17.65	1990-10-05	Adjusted			
Data					Data Period					
	100.00	Level	(Metres)				1977-08-16	2024-12-02	1% missing	
	230.09	Level (m)		Cello primary hg			2019-06-10	2024-12-02	10% missing	
Components					Component Period					
	C9E005	Artherton	@ St.Claire				1977-08-17			
	C9H017	Bucklands Canal	(Left) @ St Claire				1987-02-14			
	C9H019	Atherton Canal	(Right) @ Atherton				1988-08-26			
	C9H025	Orange-Vaal Canal	@ St. Clair				1994-12-07			
	C9R003	Vaal River	@ St Claire				2008-03-26			
D1R001	Sterkspruit River @ Jozana Hoek				30:38:11	27:22:11	D12B	77	Jozanashoek Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	14.88	1491.81	94.70	9.47	12.93	2006-08-16	Basin survey			
Data					Data Period					
	100.00	Level	(Metres)				2006-08-16	2025-03-25		
	815.72	Temp (Deg C)					2022-12-08	2025-03-25	17% missing	
	815.73	Temp (Deg C)					2019-02-27	2025-03-25		
Components					Component Period					
	D1E009	Sterk Spruit	@ Sterkspruit Dam				1984-12-20			
D2R001	Witspruit River @ Egmont				30:03:09	27:01:39	D24A	310	Egmont Dam	



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D2R001	(continued)									
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	10.68	1476.23	244.40	12.35	13.06		1938-02-20	Original		
	10.68	1476.23	235.40	11.52	12.06		1954-10-01	Basin survey		
	10.68	1476.23	245.98	9.66	9.66		1972-10-01	Basin survey		
	10.68	1476.23	245.98	9.25	9.25		1996-02-01	Basin survey		
	10.68	1476.23	247.43	9.06	9.06		2011-06-01	Basin survey		
Data							Data Period			
	100.00	Level (Metres)					1938-02-20	2025-01-23		
	815.71	Temp (Deg C)					2022-12-07	2025-04-01		
	815.73	Temp (Deg C)					2013-05-21	2024-03-30	4% missing	
Components							Component Period			
	0232898	Quilimane					1938-02-20	1977-11-16		
	D1E001	Aliwal-North @ School					1938-03-01	1957-07-01		
	D2H024	Left Canal from Egmont Dam @ Egmont					1938-07-06			
	D2E002	Wepener					1957-07-01	1977-12-01		
	D2E009	Egmont @ Egmont Dam					1977-12-01			
D2R002	Leeu River @ Beth-Aven									
					29:21:52	27:07:44	D23C	861	Armenia Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	9.15	1514.85	394.29	14.50	14.79		1954-12-01	Original		
	9.15	1514.85	394.27	14.10	14.24		1986-10-01	Basin survey		
	9.15	1514.85	393.87	13.09	14.02		1995-10-01	Raised		
	9.15	1514.85	393.55	13.00	13.85		2002-10-01	Basin survey		
	9.15	1514.85	397.04	13.22	14.00		2018-10-01	Basin survey		
Data							Data Period			
	100.00	Level (Metres)					1954-12-01	2025-03-20		
	815.71	Temp (Deg C)					2017-03-02	2025-03-20		
	815.72	Temp (Deg C)					2016-06-07	2025-03-20		
Components							Component Period			
	D2E001	Beth-Aven @ Armenia Dam					1954-12-01	1955-07-01		
	D2H025	Right Canal from Dam @ Beth-Aven					1954-12-01			
	D2H026	Leeu River @ Beth-Aven					1954-12-01	1973-05-27		
	D2E006	Hobhouse					1955-06-13	1993-02-01		
	D2E012	Armenia Dam @ Beth-Aven					1993-02-01			
	0263199	Thaba Patchoa - Col					2000-02-15	2003-01-01		
D2R004	Caledon River @ Welbedacht									
					29:54:34	26:51:37	D23J	15285	Welbedacht Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	17.68	1402.90	1855.03	112.96	113.96		1973-08-01	Original		
	17.68	1402.90	1751.90	77.63	77.70		1976-10-01	Basin survey		
	17.68	1402.90	1687.70	62.81	62.81		1978-10-01	Basin survey		



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D2R004	(continued)									
	17.68	1402.90	1654.70	55.66	55.66		1980-10-01	Basin	survey	
	17.68	1402.90	1641.40	56.87	56.88		1982-10-01	Basin	survey	
	17.68	1402.90	1641.90	51.79	51.79		1983-10-01	Basin	survey	
	17.68	1402.90	1547.40	39.57	39.57		1985-10-01	Basin	survey	
	17.68	1402.90	1489.80	38.30	38.31		1986-10-01	Basin	survey	
	17.68	1402.90	1420.60	37.13	37.14		1987-10-01	Basin	survey	
	17.68	1402.90	1370.10	30.51	30.52		1988-10-01	Basin	survey	
	17.68	1402.90	1382.10	26.20	26.22		1989-10-01	Basin	survey	
	17.68	1402.90	1255.10	17.05	17.06		1990-10-01	Basin	survey	
	17.68	1402.90	1302.70	20.47	20.47		1991-10-01	Basin	survey	
	17.68	1402.90	1175.30	15.14	15.14		1994-10-01	Basin	survey	
	17.68	1402.90	1156.80	15.04	15.04		1995-10-01	Basin	survey	
	17.68	1402.90	1100.60	15.84	15.84		1996-10-01	Basin	survey	
	17.68	1402.90	1039.30	14.06	14.06		1997-10-01	Basin	survey	
	17.68	1402.90	1012.20	9.71	9.71		2000-10-01	Basin	survey	
	17.68	1402.90	1017.50	11.66	11.66		2001-10-01	Basin	survey	
	17.68	1402.90	962.90	10.17	10.17		2007-12-01	Basin	survey	
	17.68	1402.90	901.87	6.64	6.64		2009-10-01	Basin	survey	
	17.68	1402.90	926.69	9.59	9.63		2011-11-01	Basin	survey	
	17.68	1402.90	888.15	7.25	7.25		2013-10-01	Basin	survey	
	17.68	1402.90	832.69	5.42	5.42		2016-11-01	Basin	survey	
Data							Data Period			
	100.00	Level	(Metres)				1973-08-01	2025-03-18		
	138.00	Valve Dis.	(Cumeecs)				1977-09-30	2024-12-31		
	138.05	Valve Dis.	(Cumeecs)				1977-09-30	2024-12-31		
	149.00	Combined	(cumeecs)				1973-08-01	1977-09-30		
	149.01	Combined	(cumeecs)				1973-06-11	1977-09-30		
	215.00	Tot Gates'	Vol(Ml)	Gate Discharge	Volume		1977-09-29	2015-02-17	1% missing	
	815.72	Temp	(Deg C)				2022-12-15	2025-03-18		
	815.73	Temp	(Deg C)				2012-06-28	2025-03-18	3% missing	
Components							Component Period			
	D2E007	Welbedacht	@ Welbedacht Dam				1973-08-02			
	D2H027	Pipeline from Dam to Treatment	Works @ Welbedacht				1974-10-01			
	D2H033	Caledon River	@ Welbedacht				1991-12-01			
D2R006	Rietspruit River @ Knellpoort				29:46:54	26:53:19	D23H	778	Knellpoort Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	24.52	1452.12	987.42	130.24	137.09		1989-06-06	Original		
	24.52	1452.12	987.43	130.23	136.44		1998-01-01	Basin survey		
	24.52	1452.12	984.17	130.16	135.76		2011-08-01	Basin survey		
Data							Data Period			
	100.00	Level	(Metres)				1989-06-06	2025-03-18		
	815.70	Temp	(Deg C)	Raw logger data			2021-10-12	2025-03-18	30% missing	
	815.72	Temp	(Deg C)				2011-05-01	2021-02-23	4% missing	
	815.73	Temp	(Deg C)				2011-11-29	2025-03-18	18% missing	



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D2R006	(continued)									
Components									Component Period	
	D2E010	Knellpoort @ Knellpoort Dam							1989-06-07	
	D2H031	Inlet Canal from Caledon River @ Knelpoort							1990-06-15	
	D2H028	Riet Spruit @ Knellpoort							1990-11-02	
	C5H055	Novo Canal @ De Wetskom							1999-10-21	
D3R001	Bethuliespruit River @ Bethulie				30:29:16	25:58:25	D35A	255	Bethulie Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	14.33	1293.54	174.90	5.89	6.22		1922-05-14		Original	
	14.33	1293.54	157.90	4.69	4.72		1950-10-01		Basin survey	
	14.30	1293.54	157.90	4.69	4.72		1950-10-11		A01 - Basin survey	
	6.67	1293.54	113.00	1.97	1.97		1978-10-01		A01 - Basin survey	
Data									Data Period	
	100.00	Level	(Metres)				1922-05-14	1990-08-14	4% missing	
Components									Component Period	
	0201840	Bethulie - Mun					1922-05-14		1990-04-24	
	D3H026	Left Canal from Bethulie Dam @ Bethulie					1922-05-14		1990-04-24	
	C5E001	Tygerpoort @ Tierpoort Dam					1933-09-01		1964-03-05	
	D3H021	Right Canal from Bethulie Dam @ Bethulie					1935-07-08		1990-04-24	
	D3H020	Right Canal from Bethulie Dam @ Bethulie					1935-07-12		1990-04-24	
	D3E002	Klipfontein @ Orange-Vis Tunnel					1964-03-06		1990-04-24	
D3R002	Orange River @ Ruigtevallei				30:37:24	25:30:24	D35K	70655	Gariep Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	55.81	1258.69	36216.06	5893.40	5897.29		1970-09-01		Original	
	55.81	1258.69	35419.54	5469.64	5471.91		1979-10-01		Basin survey	
	55.81	1258.69	35260.43	5360.23	5362.49		1990-10-01		Basin survey	
	55.81	1258.69	34434.13	5196.04	5198.19		2005-03-01		Basin survey	
	55.81	1258.69	33455.85	4903.45	4904.53		2018-11-01		Basin survey	
Data									Data Period	
	100.00	Level	(Metres)				1971-12-11	2025-03-04		
	138.00	Valve Dis.	(Cumeecs)				1971-11-08	2024-12-28	5% missing	
	to									
	138.03	Valve Dis.	(Cumeecs)				1971-11-08	2024-12-31	5% missing	
	149.00	Combined	(cumeecs)				1976-09-22	1977-01-23		
	149.01	Combined	(cumeecs)				1972-01-31	1997-06-01		
	194.00	Supply Flow	(l/s)				1971-08-01	2025-03-31	5% missing	
	194.01	Supply Flow	(l/s)				1971-08-01	2025-03-31	5% missing	
	194.02	Supply Flow	(l/s)				1971-08-01	2025-03-31	5% missing	
	194.03	Supply Flow	(l/s)				1971-08-01	2025-03-31	5% missing	
	194.04	Supply Flow	(l/s)				1971-08-01	2025-03-31	8% missing	
	194.05	Supply Flow	(l/s)				1971-08-01	2025-03-31	8% missing	
	194.06	Supply Flow	(l/s)				1971-08-01	2025-03-31	8% missing	
	194.07	Supply Flow	(l/s)				1971-08-01	2025-03-31	8% missing	



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D3R002	(continued)									
	215.00	Tot Gates' Vol(Ml)	Gate Discharge	Volume			1971-12-10	2014-12-03	7% missing	
	815.71	Temp (Deg C)					2017-08-01	2024-10-14		
	815.73	Temp (Deg C)					2010-02-16	2025-03-04	3% missing	
Components								Component Period		
	D3E001	Goodhope @ Gariep Dam						1964-02-24		
	D3R002	Orange River @ Ruigtevallei						1970-09-01		
	D3H022	Gariep Dam Turbines @ Ruigtevallei						1971-08-01		
	Q1H014	Teebus Canal from Ovis Tunnel @ Brakleegte						1976-10-22		
	Q1H015	Irrigation Canal from Ovis Tunnel @ Brakleegte						1985-11-29		
	Q1H018	Irrigation Pipe from Ovis Tunnel @ Teebus						1988-05-15		
	D3H029	Pipeline from Dam to Holiday Resort @ Gariep Dam						1990-11-01		
	D3H030	Pipeline to Bloemftn Treatment Works @ Gariep Dam						1990-11-01		
	D3H031	Pipeline to Bloemftn Fish Breeding Farm @ Gariep Dam						1990-11-01		
	D3H032	Pipeline to Oviston Treatment Works @ Gariep Dam						1990-11-01		
D3R003	Orange River @ Roodekop				29:59:29	24:43:55	D31E	89755	Vanderkloof Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	60.70	1170.50	13354.85	3109.36	3126.20		1976-09-08	Original		
	60.70	1170.50	13332.90	3101.09	3116.61		1991-10-01	Basin survey		
	60.70	1170.50	13372.63	3092.36	3107.24		2006-10-01	Basin survey		
	60.70	1170.50	13385.14	3136.93	3151.47		2021-10-01	Basin survey		
Data								Data Period		
	100.00	Level (Metres)					1977-08-19	2025-01-30	3% missing	
	138.00	Valve Dis. (Cumeecs)					1976-09-08	2025-03-31		
	138.01	Valve Dis. (Cumeecs)					1976-09-08	2025-03-31		
	194.00	Supply Flow (l/s)					1976-09-08	2025-03-31		
	194.01	Supply Flow (l/s)					1976-09-08	2025-03-31		
	194.02	Supply Flow (l/s)					1976-09-08	2025-03-31		
	194.03	Supply Flow (l/s)					1976-09-08	2025-03-31		
	215.00	Tot Gates' Vol(Ml)	Gate Discharge	Volume			1976-09-06	2020-03-05		
	815.71	Temp (Deg C)					2017-03-01	2025-01-30		
	815.72	Temp (Deg C)					2010-03-24	2024-04-25	14% missing	
	815.73	Temp (Deg C)					2023-12-13	2025-01-30		
Components								Component Period		
	D3E003	Roodekop @ Vanderkloof Dam						1976-09-08		
	D3H023	Vanderkloof Dam Turbines @ Roodekop						1976-09-11		
	D3H024	Vanderkloof Dam Sluice to Canal @ Roodekop						1977-04-01		
	D3H028	Pipeline from Dam to Treatment Works @ Roodekop						1990-11-01		
D4R001	Swartbas River @ Louw Bosch				26:43:48	20:05:59	D42D	259	Leeubos Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	3.97	823.32	76.00	1.05	1.06		1948-11-03	Original		
	3.97	823.32	70.00	1.00	1.00		1982-10-01	Basin survey		



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D4R001	(continued)									
Data	100.00	Level	(Metres)					Data Period 1948-11-03 1992-01-31	1% missing	
Components								Component Period		
	D4R001	Swartbas River @ Louw Bosch						1948-01-03		
	0423044	Rietfontein - Pol						1948-11-03		
	D4E001	Rietfontein						1948-11-03	1993-06-01	
	D4H029	Right Canal from Leeubos Dam @ Louw Bosch						1949-02-02	1981-09-01	
D4R002	Molopo River @ Rietspruit Dam				27:18:11	20:05:43	D42D	5		
D4R003	Molopo River @ Disaneng				25:49:27	25:18:48	D41A	3355	Disaneng Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	6.68	1187.00	435.90	15.69	17.37			1988-01-14	Basin survey	
	6.68	1187.00	425.30	14.82	15.80			1996-10-01	Basin survey	
	6.68	1187.00	418.00	14.12	15.13			2003-03-01	Basin survey	
Data	100.00	Level	(Metres)					Data Period 1988-01-14 2025-01-09	4% missing	
Components								Component Period		
	D4H033	Molopo River @ Disaneng						1995-06-14		
	D4H034	Pipeline to Fisheries @ Disaneng						1995-10-09	2000-07-31	
	D4H035	Irrigation Pipeline @ Disaneng						1999-04-05	2002-08-26	
D4R004	Molopo River @ Molopo (Ratshidi) D/S Mmabatho				25:51:27	25:30:31	D41A	2615	Setumo Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	11.75	1226.00	447.30	20.72	20.74			1995-10-31	Original	
	11.75	1226.00	447.30	20.72	20.73			2005-07-15	Basin survey	
Data	100.00	Level	(Metres)					Data Period 1995-10-31 2025-01-09	1% missing	
D5R001	Hartbees River @ Rooi Berg				29:24:02	21:12:21	D53A	72175	Rooiberg Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	4.42	808.50	490.00	7.13	7.23			1935-02-23	Original	
	4.37	808.45	471.14	6.92	7.02			1940-10-01	Basin survey	
	4.36	808.44	363.97	6.56	6.63			1949-10-01	Adjusted	
	4.36	808.44	314.30	3.36	3.38			1961-10-01	Basin survey	
	4.36	808.44	314.30	3.36	3.38			1970-06-02	A02 - Original	
	4.34	808.42	301.89	3.42	3.43			1983-10-01	Basin survey	



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Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 21
D5R001	(continued)									
Data	100.00	Level	(Metres)					Data Period 1935-02-23 2025-02-10	1% missing	
Components	D5H020 D5R001	Right Canal from Hartbees River @ Rooi Berg	Rooiberg Dam @ Rooi Berg					Component Period 1935-09-18 1974-10-01 2008-03-26		
D5R002	Van Wyksvlei River @ Van Wyksvlei				30:22:46	21:48:39	D54C	1339	Van Wyksvlei Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	7.59	966.71	0.00	0.00	0.00			1922-01-01	Original	
	7.59	966.71	5002.30	146.79	146.81			1948-10-01	Basin survey	
	7.59	966.71	4993.40	143.06	143.08			1979-10-01	Basin survey	
Data	100.00	Level	(Metres)					Data Period 1922-01-01 1951-04-30	13% missing	
D6R001	Dorpspruit River @ Victoria West				31:24:03	23:05:57	D61E	280	Victoria West Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	6.22	1280.45	220.60	4.07	4.07			1923-12-27	Original	
	6.22	1280.45	219.20	4.05	4.05			1932-08-01	Basin survey	
	6.22	1280.45	210.80	3.93	3.93			1949-09-01	Basin survey	
Data	100.00	Level	(Metres)					Data Period 1923-12-27 2025-02-13		
Components	0141329 D6E002	Biesjesfontein Victoria-West						Component Period 1923-12-01 1953-02-00 2008-03-26		
D6R002	Ongers River @ Huisfontein				30:36:48	23:18:04	D61M	13340	Smartt Syndicate Dam	
FSL Parameters	Gauge Plate (m)	Reduced Level (m)	Surface area (ha)	Net capacity (mill m**3)	Gross capacity (mill m**3)					
	7.80	1091.54	2418.80	93.06	93.06			1922-01-01	Original	
	7.80	1091.54	2153.20	55.23	55.23			1935-10-01	Basin survey	
	8.72	1090.17	1378.57	32.57	32.57			1940-10-01	Raised	
	8.96	1092.70	2560.65	83.46	83.46			1947-10-01	Raised	
	9.91	1092.70	2560.65	83.46	83.46			1959-10-01	A01 - Raised	
	9.91	1092.70	2617.79	76.85	76.90			1962-10-01	Basin survey	
	12.19	1093.65	3184.30	104.38	104.42			1963-01-01	Adjusted	
	12.19	1093.65	3154.00	101.52	101.52			1976-10-01	Basin survey	
	12.20	1093.65	3154.00	101.52	101.52			1979-03-14	A01 - Basin survey	
	12.20	1093.65	3156.90	101.12	101.12			1993-10-01	Basin survey	
Data	100.00	Level	(Metres)					Data Period 1922-01-01 2025-02-14	1% missing	



Station					Latitude dd:mm:ss	Longitude dd:mm:ss	Drainage Region	Catchment Area km**2	Description	Page 22
D6R002	(continued)									
	230.09	Level (m)	Cello primary hg				2023-07-28	2025-02-14	47% missing	
Components							Component Period			
	D6H004	Canal from Smartt Syndicate	Dam @ Huisfontein				1922-01-01			
	D6E001	Smartt Syndicate					1936-12-01			
	0167665	Vosburg					2008-03-26	1936-11-30		
D7R001	Orange River @ Boegoeberg Res.				29:02:28	22:12:09	D72C	343050	Boegoeberg Dam	
FSL Parameters	Gauge Plate	Reduced Level	Surface area	Net capacity	Gross capacity					
	(m)	(m)	(ha)	(mill m**3)	(mill m**3)					
	9.67	884.57	0.00	0.00	0.00		1945-09-30	Original		
	9.67	884.57	694.67	20.29	20.30		1982-08-26	Basin survey		
	9.67	884.57	764.82	20.54	20.62		1999-10-01	Basin survey		
	9.67	884.57	759.31	20.61	20.66		2016-10-01	Basin survey		
Data							Data Period			
	100.00	Level (Metres)					1929-08-01	2025-03-20	20% missing	
	230.09	Level (m)	Cello primary hg				2018-07-13	2022-07-20	49% missing	
Components							Component Period			
	D7H008	Orange River @ Boegoeberg Dam Res.					1932-05-15			
	D7H013	Left Canal from Boegoeberg Dam @ Boegoeberg Res.					1935-05-15	2004-09-14		
	D7E001	Boegoeberg Res @ Boegoeberg Dam					1945-09-30			
	D7H017	Left Canal from Boegoeberg Dam @ Boegoeberg Res.					2004-09-14			
	D7R001	Orange River @ Boegoeberg Res.					2008-03-26			



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Abiekwaspits	Pan D4R002	20
Alexander	Dam C2R009	5
Alleanskraal	Dam C4R001	7
Armenia	Dam D2R002	16
Babers	Pan C3R003	6
Bethulie	Dam D3R001	18
Bloemhof	Dam C9R002	14
Boegoeberg	Dam D7R001	22
Boskop	Dam C2R001	2
Cowles	Dam C2R010	5
Disaneng	Dam D4R003	20
Douglas	Dam C1R004	2
Douglas Weir	C9R003	15
Driekloof	Dam C8R007	13
Egmont	Dam D2R001	15
Elandskuil	Dam C2R006	4
Erffenis	Dam C4R002	8
Fika-Patso	Dam C8R008	14
Gariep	Dam D3R002	18
Gerrands	Dam C8R006	13
Grootdraai	Dam C1R002	2
Groothoek	Dam C5R005	10
Johan Naser	Dam C2R002	3
Jozanashoek	Dam D1R001	15
Kalkfontein	Dam C5R002	9
Klerkskraal	Dam C2R003	3
Klipdrift	Dam C2R005	4
Knellpoort	Dam D2R006	17
Koppies	Dam C7R001	10
Koppiessyn	Pan C3R005	7
Krustersdrift	Dam C5R004	10
Leeubos	Dam D4R001	19
Loch Athlone	C8R005	13
Maselspoort	Dam C5R006	10
Menin	Dam C8R001	12
Metsi-Matsho	Dam C8R002	12
Mockes	Dam C5R007	10
Nigel	Dam C2R011	5
Potchefstroom	Dam C2R004	4
Rietspruit	Dam C2R007	5
Roodepoort	Dam C7R002	11
Rooiberg	Dam D5R001	20
Rustfontein	Dam C5R003	9
Saulspoort	Dam C8R004	13
Serfontein	Dam C6R002	10
Setumo	Dam D4R004	20
Smartt Syndicate	Dam D6R002	21
Sout Pan	C3R004	7
Spitskop	Dam C3R002	6
Sterkfontein	Dam C8R003	12
Taung	Dam C3R006	7
Tierpoort	Dam C5R001	8
Vaal	Dam C1R001	1
Vaalharts	Weir C9R001	14
Vaalrivier	Barrage C2R008	5
Van Wyksvlei	Dam D5R002	21
Vanderkloof	Dam D3R003	19
Victoria West	Dam D6R001	21
Welbedacht	Dam D2R004	16
Weltevrede	Dam C7R003	11
Wentzel	Dam C3R001	6
Willem Brummer	Dam C1R003	2